NGR

SVR

Rockette

EURO SR

ESPORT

2.1 Introduction
Product Selection Guide V11-T2-3

2.2 NGR
Product Description V11-T2-8
Catalog Number Selection V11-T2-10

2.3 SVR
Product Description V11-T2-32
Catalog Number Selection V11-T2-34

2.4 Dual Motion Safety Switch
Product Description V11-T2-43
Catalog Number Selection V11-T2-44

2.5 1500/2500
Product Description V11-T2-45
Catalog Number Selection V11-T2-46

2.6 1600/2600
Product Description V11-T2-49
Catalog Number Selection V11-T2-50

2.7 Rockette
Product Description V11-T2-56
Catalog Number Selection V11-T2-57

2.8 8006/8007—EURO SR
Product Description V11-T2-64
Catalog Number Selection V11-T2-65

2.9 8004/8005—Euro Full Size
Product Description V11-T2-67
Catalog Number Selection V11-T2-68

2.10 X Series
Product Description V11-T2-70
Catalog Number Selection V11-T2-71
X Series Symbols Library V11-T2-72

2.11 8064/8065 ESPORT
Product Description V11-T2-74
Catalog Number Selection V11-T2-75
Icon/Legend Selection V11-T2-76

2.12 Accessories
Dimensions V11-T2-78

2.13 Technical Data
Rocker, Toggle and Pushbuttons V11-T2-80
Rocker Switch Circuit Diagrams V11-T2-81

2.14 Symbol Library
NGR, SVR, E31, E32 and E33 eSM Symbols V11-T2-82
NGR Only Symbols V11-T2-87
SVR, E31, E32 and E33 eSM Symbols V11-T2-97

2.1 Rockers

Introduction

Rocker Switch Products

2

Contents

Description

Rocker Selection Guide	**V11-T2-3**
NGR Rocker Switches	**V11-T2-8**
SVR—Sealed Vehicle Rockers	**V11-T2-32**
Dual Motion Safety Switches	**V11-T2-43**
1500/2500—Midsize AC Rated	**V11-T2-45**
1600/2600—Midsize AC Only	**V11-T2-49**
Rockette—General Purpose AC Rated	**V11-T2-56**
8006/8007—EURO SR	**V11-T2-64**
8004/8005—Euro Full Size	**V11-T2-67**
X Series Rockers	**V11-T2-70**
8064/8065—ESPORT	**V11-T2-74**
Accessories	**V11-T2-78**
Technical Data	**V11-T2-80**
Symbols Library	**V11-T2-82**

Rocker Selection Guide

See Technical Data and Dimensions for more details.

Rocker Switches—Illuminated and Non-Illuminated

	NGR	SVR
		
Features		
Ratings	15A at 125 Vac, 10A at 250 Vac; 15A at 28 Vdc (14 Vdc rating)	12A at either 12 or 24 Vdc
Certifications	RoHS, UL® Approvable	RoHS, UL Approvable
Panel Opening	Rectangular	Octagonal
Single- and two-pole length	1.734 in (44.04 ± 0.13 mm)	0.830 in (21.10 mm); 0.680 in (17.30 mm)
Single-pole width	0.867 in (22.02 ± 0.13 mm)	1.450 in (36.80 mm); 1.190 in (30.20 mm)
Two-pole width	0.867 in (22.02 ± 0.13 mm)	1.450 in (36.80 mm); 1.190 in (30.20 mm)
Seal		
Top (internal)	✔	✔
Bottom (internal)	—	✔
Panel	✔	✔
Actuator		
Rocker without bezel	—	✔
Rocker with bezel	✔	✔
Paddle	✔	✔
Snap-in lens	✔	✔
Locking	✔	—
Label	✔	—
Decorative		
Laser-etch	✔	✔
Pad-print	✔	✔
Poles		
Single	✔	✔
Double	✔	✔
Four	—	—
Termination		
Spade	✔	✔
Solder	—	—
Screw	—	—
Weld lugs	—	—
Illumination		
Incandescent 6 Vdc	—	—
Incandescent 12 Vdc	—	—
Incandescent 14 Vdc	✔	—
Incandescent 18 Vdc	✔	—
Incandescent 24 Vdc	—	—
Incandescent 28 Vdc	✔	—
Neon 110V	—	—
Neon 125V	—	—
Neon 250V	—	—
14V LED	✔	✔
28V LED	✔	✔
Catalog Number Selection	**Page V11-T2-10**	**Page V11-T2-34**
Technical Data	**Page V11-T2-16**	**Page V11-T2-36**
Circuit Diagrams	**Page V11-T2-17**	**Page V11-T2-37**
Dimensions	**Page V11-T2-30**	**Page V11-T2-38**
Icon/Legend Symbols Library	**Page V11-T2-82**	**Page V11-T2-82**

See Technical Data and Dimensions for more details.

Rocker Switches—Illuminated and Non-Illuminated, continued

	Dual Motion Safety Switch	1500/2500
		
Features		
Ratings	10A at 250 Vac, 15A at 125 Vac, 3/4 hp at 250 Vac	Up to 22A at 125 Vac, 16A at 250 Vac
Certifications	UL, CSA®, RoHS	UL, CSA, ENEC, RoHS
Panel Opening	Octagonal	Rectangular
Single- and two-pole length	1.450 in (36.80 mm); 1.190 in (30.20 mm)	1.075 in (27.30 ± 0.10 mm)
Single-pole width	0.830 in (21.10 mm); 0.680 in (17.20 mm)	0.483 in (12.27 ± 0.07 mm)
Two-pole width	N/A	0.876 in (22.25 ± 0.10 mm)
Seal		
Top (internal)	—	—
Bottom (internal)	—	—
Panel	—	—
Actuator		
Rocker without bezel	—	—
Rocker with bezel	✔	✔
Paddle	✔	✔
Snap-in lens	—	—
Locking	—	—
Label	—	—
Decorative		
Laser-etch	—	—
Pad-print	✔	✔
Poles		
Single	✔	✔
Double	—	✔
Four	—	—
Termination		
Spade	✔	✔
Solder	✔	✔
Screw	✔	—
Weld lugs	—	—
Illumination		
Incandescent 6 Vdc	—	✔
Incandescent 12 Vdc	—	✔
Incandescent 14 Vdc	—	—
Incandescent 18 Vdc	—	—
Incandescent 24 Vdc	—	✔
Incandescent 28 Vdc	—	—
Neon 110V	—	—
Neon 125V	—	✔
Neon 250V	—	✔
14V LED	—	—
28V LED	—	—
Catalog Number Selection	**Page V11-T2-44**	**Page V11-T2-46**
Technical Data	**—**	**Page V11-T2-48**
Circuit Diagrams	**—**	**Page V11-T2-80**
Dimensions	**Page V11-T2-44**	**Page V11-T2-48**
Icon/Legend Symbols Library	**—**	**Page V11-T2-55**

See Technical Data and Dimensions for more details.

Rocker Switches—Illuminated and Non-Illuminated, continued

	1600/2600	Rockette
		
Features		
Ratings	Up to 22A at 125 Vac, 16A at 250 Vac	Up to 15A at 125 Vac, 10A at 250 Vac, 3/4 hp at 250 Vac
Certifications	UL, CSA, ENEC, RoHS	UL, CSA, RoHS
Panel Opening	Rectangular	Octagonal
Single- and two-pole length	1.075 in (27.30 ± 0.10 mm)	1.450 in (36.83 mm); 1.190 in (30.23 mm)
Single-pole width	0.483 in (12.27 ± 0.07 mm)	0.830 in (21.80 mm); 0.680 in (17.27 mm)
Two-pole width	0.876 in (22.25 ± 0.10 mm)	0.830 in (21.80 mm); 0.680 in (17.27 mm)
Seal		
Top (internal)	—	✔
Bottom (internal)	—	—
Panel	—	—
Actuator		
Rocker without bezel	—	—
Rocker with bezel	✔	✔
Paddle	✔	—
Snap-in lens	—	—
Locking	—	—
Label	—	—
Decorative		
Laser-etch	—	—
Pad-print	✔	✔
Poles		
Single	✔	—
Double	✔	✔
Four	—	✔
Termination		
Spade	✔	✔
Solder	✔	✔
Screw	—	✔
Weld lugs	—	—
Illumination		
Incandescent 6 Vdc	✔	—
Incandescent 12 Vdc	✔	—
Incandescent 14 Vdc	—	✔
Incandescent 18 Vdc	—	—
Incandescent 24 Vdc	✔	—
Incandescent 28 Vdc	—	✔
Neon 110V	—	✔
Neon 125V	—	—
Neon 250V	—	—
14V LED	—	—
28V LED	—	—
Catalog Number Selection	**Page V11-T2-50**	**Page V11-T2-57**
Technical Data	**Page V11-T2-54**	**Page V11-T2-60**
Circuit Diagrams	**Page V11-T2-80**	**Page V11-T2-80**
Dimensions	**Page V11-T2-54**	**Page V11-T2-60**
Icon/Legend Symbols Library	**Page V11-T2-55**	—

See Technical Data and Dimensions for more details.

Rocker Switches—Illuminated and Non-Illuminated, continued

	8006/8007	8004/8005
		
Features		
Ratings	10A at 250 Vac, 15A at 125 Vac, 3/4 hp at 250 Vac, recommended up to 15A at 28 Vdc	10A at 250 Vac, 15A at 125 Vac, 3/4 hp at 250 Vac, recommended up to 15A at 28 Vdc
Certifications	UL(CUR), RoHS	UL(CUR), RoHS
Panel Opening	Octagonal	Rectangular
Single- and two-pole length	1.450 in (36.85 mm); 1.190 in (30.23 mm)	1.734 in (44.04 ± 0.13 mm)
Single-pole width	0.830 in (21.08 mm); 0.680 in (17.27 mm)	0.867 in (22.02 ± 0.13 mm)
Two-pole width	0.830 in (21.08 mm); 0.680 in (17.27 mm)	0.867 in (22.02 ± 0.13 mm)
Seal		
Top (internal)	✔	✔
Bottom (internal)	—	—
Panel	—	—
Actuator		
Rocker without bezel	—	—
Rocker with bezel	✔	✔
Paddle	✔	—
Snap-in lens	✔	✔
Locking	—	—
Label	—	✔
Decorative		
Laser-etch	—	—
Pad-print	✔	✔
Poles		
Single	✔	✔
Double	✔	✔
Four	—	—
Termination		
Spade	✔	✔
Solder	✔	✔
Screw	✔	✔
Weld lugs	—	—
Illumination		
Incandescent 6 Vdc	—	—
Incandescent 12 Vdc	—	—
Incandescent 14 Vdc	✔	✔
Incandescent 18 Vdc	✔	✔
Incandescent 24 Vdc	—	—
Incandescent 28 Vdc	✔	✔
Neon 110V	—	—
Neon 125V	✔	✔
Neon 250V	✔	✔
14V LED	—	—
28V LED	—	—
Catalog Number Selection	**Page V11-T2-65**	**Page V11-T2-68**
Technical Data	**Page V11-T2-66**	**Page V11-T2-69**
Circuit Diagrams	**Page V11-T2-80**	**Page V11-T2-80**
Dimensions	**Page V11-T2-66**	**Page V11-T2-69**
Icon/Legend Symbols Library	—	—

See Technical Data and Dimensions for more details.

Rocker Switches—Illuminated and Non-Illuminated, continued

Features	X Series	8064/8065
		
Ratings	16A 125V, 10A 277V, 3/4 hp 277V Recommended 21A 14 Vdc or 10A 28 Vdc	10A at 250 Vac, 15A at 125 Vac, 3/4 hp at 250 Vac, recommended up to 15A at 28 Vdc
Certifications	UL(CUR); RoHS, T85	UL(CUR); RoHS
Panel Opening	Rectangular	Rectangular
Single- and two-pole length	1.46 in (37.00 ± 0.1 mm)	1.734 in (44.04 ± 0.13 mm)
Single-pole width	0.83 in (21.20 ± 0.1 mm)	0.867 in (22.02 ± 0.13 mm)
Two-pole width	0.83 in (21.20 ± 0.1 mm)	0.867 in (22.02 ± 0.13 mm)
Seal		
Top (internal)	✔	—
Bottom (internal)	—	—
Panel	—	—
Actuator		
Rocker without bezel	—	—
Rocker with bezel	✔	✔
Paddle	—	✔
Snap-in lens	—	—
Locking	—	—
Label	—	✔
Decorative		
Laser-etch	✔	—
Pad-print	—	✔
Poles		
Single	✔	✔
Double	✔	✔
Four	—	—
Termination		
Spade	✔	✔
Solder	✔	—
Screw	✔	—
Weld lugs	—	—
Illumination		
Incandescent 6 Vdc	—	—
Incandescent 12 Vdc	—	—
Incandescent 14 Vdc	—	—
Incandescent 18 Vdc	—	—
Incandescent 24 Vdc	—	—
Incandescent 28 Vdc	—	—
Neon 110V	—	—
Neon 125V	—	—
Neon 250V	—	—
14V LED	✔	✔
28V LED	✔	✔
125V LED	✔	—
277V LED	✔	—
Catalog Number Selection	**Page V11-T2-71**	**Page V11-T2-75**
Technical Data	**Page V11-T2-72**	**Page V11-T2-76**
Circuit Diagrams	**Page V11-T2-72 (Light Diagrams)**	**Page V11-T2-80**
Dimensions	**Page V11-T2-73**	**Page V11-T2-77**
Icon/Legend Symbols Library	**Page V11-T2-72**	**Page V11-T2-76**

NGR Rocker Switches

Contents

Description	*Page*
NGR Rocker Switches	
Switch Base	**V11-T2-10**
Rocker Buttons/Actuators	**V11-T2-11**
Lens Selection	**V11-T2-13**
NGR Complete Indicators and Indicator Caps	**V11-T2-14**
NGR Indicator Base and Indicator Caps	**V11-T2-15**
Technical Data and Specifications	**V11-T2-16**
Standard Circuit Diagrams	**V11-T2-17**
Dimensions	**V11-T2-30**

Product Description

Eaton presents its NGR Rocker Switches. This field-proven line of full-sized rocker switches, initially developed for the heavy truck industry, is now found in a variety of vehicle-related applications.

The NGR offers both European styling and ergonomic design while still providing the solid durability that you have come to expect from Eaton switches.

Illuminated and non-illuminated versions with either incandescent bulbs or LEDs are available in either dependent or independent circuits and in a variety of popular switching circuits.

The NGR also offers a variety of rocker buttons and indicators with laser-etched or pad-printed icons, insertable lenses and adhesive-backed labels.

Features

- Sealing

Standard switch provides splash and dust resistance to IP42. The sealed version is sealed to IP67 when supplied with panel seal.

- Rocker

The standard actuator for the NGR is a clean, European-styled, two-face rocker made of high-quality thermoplastic material. The rocker is replaceable and snaps on and off the switch. Both the rocker and the bezel are supplied with an aesthetically pleasing matte finish. Different colors are also available, but black is standard. Rockers can be ordered separately.

- Lighting

Each switch is capable of accommodating two incandescent light bulbs or LEDs for lighting purposes. A lamp or LED can be located at either end of the switch and oriented to be circuit dependent or independent. The incandescent bulbs are front replaceable. Two lamp or LED voltages, 14 Vdc and 28 Vdc, are standard. For additional voltages or colors, consult your local Eaton Sales Representative.

Standards and Certifications

- Approvable under stringent UL and CSA standards
- For information, contact your local Eaton Sales Representative
- RoHS Compliant ①

RoHS COMPLIANT

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Options

- Circuits
  - 1PST, 1PDT, 2PST and 2PDT
  - Maintained and momentary action
- Common lamp ground jumper for dual lamp units
- Multiple LEDs for daylight readability
- Additional colors of rockers, mounting bezels and lenses are available
- Special circuits
- Special ratings
- Pad-printed legends on lens, rocker and bezel
- Special lamps and lamp voltages
- Dry circuit capabilities
- Custom back-lit legends available
- Reversing jumpers (internal)
- Gang mounting system, see **Page V11-T2-79**
- Locking rocker with locking feature in UP and/or DOWN positions
- Indicators with laser-etched or insertable lenses, or adhesive labels
- IP67 rated sealed switch
- Polarized lock-on connectors, see **Page V11-T2-78**
  - 28-5637-2 for Packard terminals
  - 28-5940 for AMP terminals
- Panel plug 17-21543
- Replacement bulb catalog number
  - 14V: 28-5901
  - 28V: 28-5909

For more information on additional options, contact your local Eaton Sales Representative.

Legends

Two legend areas are provided on the ends of each rocker of sufficient size to accommodate two lines consisting of four Helvetica Narrow 12-point characters. Legends may be non-illuminated or illuminated. The NGR offers three styles of illuminated legends.

Single-piece back-lit—Back-lighting is a high-quality automotive/truck industry technique. The legend can appear daylight white or dead-front when non-illuminated but, depending on the back-lit color chosen, will change color when illuminated. Examples of standard back-lit legends are found on **Pages V11-T2-82** to **V11-T2-96**.

Snap-in lenses—This rocker will have either one or two snap-in lenses in the legend areas. Legends are typically pad-printed on the lens in black or white. Snap-in lenses are available in six standard colors and can be ordered separately.

Label rocker—This rocker has a one-piece adhesive-backed label inserted into a recessed area on the face of the button. Legends can be done in several colors and be illuminated or non-illuminated. Contact your local Eaton Sales Representative for suggested sources.

Flexible Ordering System

You can order assembled switches or the switch base and actuator separately.

Use the final code in the switch base catalog number, **Page V11-T2-10**, to denote assembly instructions.

Switch Base

Rocker and Paddle Frame

Full Palm Guard

Panel Seal and Internal Seal

To order rocker and switch base assembled, contact your local Eaton Sales Representative.
To order rocker buttons, see **Page V11-T2-11**.
To order lenses, see **Page V11-T2-13**.
To order indicator caps, see **Page V11-T2-15**. For a complete indicator, see **Page V11-T2-14**.

Catalog Number Selection

How To Order—Switch Base

To determine complete catalog number, start with the appropriate base prefix and add the appropriate code letters and/or numbers.

Example: **NGR 1501 4 B N A 0 N**

Switch Series (Unsealed)
NGR = Switch base

Circuit ①
1501 = Circuit
See **Pages V11-T2-17** to **V11-T2-29**.

Frame Style
1 = Rocker and paddle frame
2 = Palm guard (top)
3 = Palm guard (bottom)
4 = Full palm guard (top/bottom)
S = Panel seal and internal seal
G = Locking rocker ②
D = Locking rocker ③
F = Locking rocker ④
T = Internal seal

Frame Color
B = Black

Switch Contact Plating ⑤
N = Standard
T = High rated
G = Gold

"A" Lamp Type and Color
0 = No lamp
A = 14 Vdc incand./clear ⑥
B = 24 Vdc incand./clear ⑥
C = 28V LED/red ⑧
D = 28V LED/green ⑧
E = 28V LED/amber ⑧
R = 14V LED/red
G = 14V LED/green
Y = 14V LED/amber
K = 28V LED/red ⑦
L = 28V LED/green ⑦
T = 28V LED/amber ⑦
W = 28V LED/white ⑦
X = 28V LED/blue ⑦
H = 14V LED/high intensity red
J = 14V LED/high intensity green
P = 14V LED/high intensity amber
M = 14V LED/high intensity blue

"B" Lamp Type and Color
0 = No lamp
A = 14 Vdc incand./clear ⑥
B = 24 Vdc incand./clear ⑥
C = 28V LED/red ⑧
D = 28V LED/green ⑧
E = 28V LED/amber ⑧
R = 14V LED/red
G = 14V LED/green
Y = 14V LED/amber
K = 28V LED/red ⑦
L = 28V LED/green ⑦
T = 28V LED/amber ⑦
W = 28V LED/white ⑦
X = 28V LED/blue ⑦
H = 14V LED/high intensity red
J = 14V LED/high intensity green
P = 14V LED/high intensity amber
M = 14V LED/high intensity blue

Rocker Assembled
N = No

Notes
① Circuits show lighting options available. See **Pages V11-T2-17** to **V11-T2-29**.
② Locks in DOWN position.
③ Locks in UP and DOWN positions.
④ Locks in UP position.
⑤ Switch contact construction plating—
N = Standard: Recommended for use on loads up to 12 amps at 14 Vdc.
T = High Rated: Recommended for use on loads greater than 12 amps at 14 Vdc.
G = Gold: Recommended for use on dry circuit/low level switching.
⑥ Replaceable.
⑦ Replaceable/wedge base LED.
⑧ PCB version LED.

Rocker Buttons/Actuators

Two-Face Rocker, No Lens	Two-Face Rocker, Snap-In Lens	Decorative Rocker, Back-Lit	Decorative Paddle, Back-Lit	Locking Rocker	Label Rocker

Catalog Number Selection

How To Order—Rocker Buttons/Actuators

To determine complete catalog number, start with the appropriate button type and add the appropriate code letters and/or numbers.

Example: **3 C AF A 1 B AE C 4 A 3**

Rocker Button Type
- **1** = Two-face, no lens rocker
- **2** = Two-face, snap-in lens rocker
- **3** = Decorative rocker, back-lit
- **4** = Decorative paddle, back-lit
- **5** = Locking rocker
- **6** = Label rocker

Icon/Lens/Hole Location
- **A** = "A" only
- **B** = "B" only
- **C** = "A" and "B"
- **D** = No icon/lens/hole

Icon "A" Code
- **AF** = Unlock

See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Icon "A" Orientation
- **A** = Standard orientation
- **B** = 90° clockwise
- **C** = 180° clockwise
- **D** = 270° clockwise
- **0** = No icon; no orientation

Icon "A" Color
- **0** = No icon; no color
- **1** = Daylight white ①
- **2** = Deadfront ①
- **3** = White ②
- **4** = Black ②
- **5** = Lens hole (no lens)

Icon "A" Lighted Color or Lens Color
- **A** = Red
- **B** = Green
- **C** = Amber
- **E** = Blue
- **F** = White
- **G** = Clear
- **0** = Non-lighted or no lens

Icon "B" Code
- **AE** = Lock

See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Icon "B" Orientation
- **A** = Standard orientation
- **B** = 90° clockwise
- **C** = 180° clockwise
- **D** = 270° clockwise
- **0** = No icon; no orientation

Icon "B" Color
- **0** = No icon; no color
- **1** = Daylight white ①
- **2** = Deadfront ①
- **3** = White ②
- **4** = Black ②
- **5** = Lens hole (no lens)

Icon "B" Lighted Color or Lens Color
- **A** = Red
- **B** = Green
- **C** = Amber
- **E** = Blue
- **F** = White
- **G** = Clear
- **0** = Non-lighted or no lens

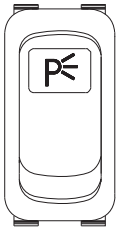
Indicator Stripe Location
- **1** = "A" Position
- **2** = "B" Position
- **3** = "A" and "B" Positions
- **0** = No stripe

Notes

① Decorative rocker only.
② Two-face rocker only.

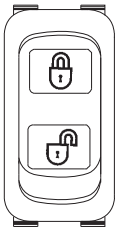
Icon Location Examples

Location A



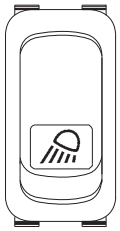
Rocker with Icon in "A" Position (Code A)

Location C



Rocker with Icon in "C" Position (Code C)

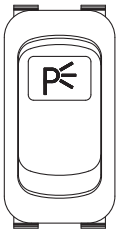
Location B



Rocker with Icon in "B" Position (Code B)

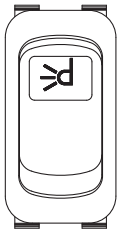
Icon Orientation Examples

Orientation A



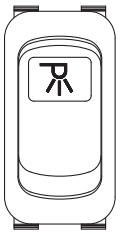
Rocker with Standard Orientation (Code A)

Orientation C



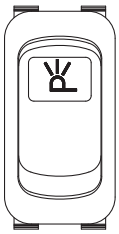
Rocker with Icon at 180° Clockwise (Code C)

Orientation B



Rocker with Icon at 90° Clockwise (Code B)

Orientation D



Rocker with Icon at 270° Clockwise (Code D)

Translucent Lens

Transparent Lens

Lens Selection

For NGR Rocker Type "2" and Indicator Type "2CAP" only.

Catalog Number Selection

How To Order—Translucent Lenses ①②

To determine complete catalog number, start with the appropriate base prefix and add the appropriate code letters and/or numbers.

Example: **28-5863-2 AF A**

Lens Color	Base Catalog Number	Icon Code	Orientation Style Code
Red Green Amber Blue White ④	**28-5863-2** **28-5863** **28-5863-3** **28-5863-9** **28-5863-8**	**AF** = Unlock See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.	**A** = Standard orientation **B** = Rotated 90° clockwise **C** = Inverted 180° **D** = Rotated 270° clockwise

How To Order—Transparent Lenses ①②

To determine complete catalog number, start with the appropriate base prefix and add the appropriate code letters and/or numbers.

Example: **28-5863-5 AF A**

Lens Color	Base Catalog Number	Icon Code	Orientation Style Code
Red Green Amber Blue Clear ④	**28-5863-5** **28-5863-4** **28-5863-6** **28-5863-10** **28-5863-7**	**AF** = Unlock See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.	**A** = Standard orientation **B** = Rotated 90° clockwise **C** = Inverted 180° **D** = Rotated 270° clockwise

Notes

① When ordering a lens with an icon for the code **B** (bottom) position, specify code **C** orientation.
② Standard lens type.
③ Non-standard lens type.
④ Standard pad print for white and clear lens is black.

2

Complete Indicator and Indicator Cap Assembled

NGR Complete Indicators and Indicator Caps

To order rocker buttons, see **Page V11-T2-11**.
To order lenses, see **Page V11-T2-13**.

Catalog Number Selection

How To Order—Complete Indicator

To determine complete catalog number, start with the appropriate indicator type and add the appropriate code letters and/or numbers.

Example: **2N C AA R 1 B AB A 0 A**

Indicator Type
- **2N** = Two-face, snap-in lens
- **3N** = Laser-etched
- **6N** = Label

Icon/Lens/Hole Location
- **A** = "A" icon only
- **B** = "B" icon only
- **C** = "A" and "B" icons
- **D** = No icon/lens/hole

Icon "A" Code
- **AA** = Horn

See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Lamp/LED Type and Color
- **A** = 14 Vdc incand./clear
- **B** = 28 Vdc incand./clear
- **0** = No lamp/LED
- **R** = 14V LED/red
- **G** = 14V LED/green
- **Y** = 14V LED/amber
- **K** = 28V LED/red
- **L** = 28V LED/green
- **T** = 28V LED/amber
- **H** = 14V LED/high intensity red
- **J** = 14V LED/high intensity green
- **P** = 14V LED/high intensity amber
- **M** = 14V LED/high intensity blue

Icon "A" Color
- **0** = No icon; no color
- **1** = Daylight white ①
- **2** = Deadfront ①
- **3** = White ②
- **4** = Black ②
- **5** = Lens hole (no lens)

Icon "A" Lighted Color or Lens Color
- **A** = Red
- **B** = Green
- **C** = Amber
- **E** = Blue
- **F** = White
- **G** = Clear
- **0** = Non-lighted or no lens

Icon "B" Code
- **AB** = Battery

See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Lamp/LED Type and Color
- **A** = 14 Vdc incand./clear
- **B** = 28 Vdc incand./clear
- **0** = No lamp/LED
- **R** = 14V LED/red
- **G** = 14V LED/green
- **Y** = 14V LED/amber
- **K** = 28V LED/red
- **L** = 28V LED/green
- **T** = 28V LED/amber
- **H** = 14V LED/high intensity red
- **J** = 14V LED/high intensity green
- **P** = 14V LED/high intensity amber
- **M** = 14V LED/high intensity blue

Icon "B" Color
- **0** = No icon; no color
- **1** = Daylight white ①
- **2** = Deadfront ①
- **3** = White ②
- **4** = Black ②
- **5** = Lens hole (no lens)

Icon "B" Lighted Color or Lens Color
- **A** = Red
- **B** = Green
- **C** = Amber
- **E** = Blue
- **F** = White
- **G** = Clear
- **0** = Non-lighted or no lens

Notes

① Decorative rocker only.
② Two-face rocker only.

Indicator Base

Indicator Cap

NGR Indicator Base and Indicator Caps

To order rocker buttons, see **Page V11-T2-11**.
To order lenses, see **Page V11-T2-13**.
To order complete indicator, see **Page V11-T2-14**.

Catalog Number Selection

How To Order—Indicator Base

To determine complete catalog number, start with the appropriate base prefix and add the appropriate code letters and/or numbers.

Example: **NGRIND A 0 N**

Switch Series (Unsealed)
NGRIND = Indicator base

"A" Lamp Type and Color
0 = No lamp
A = 14 Vdc incand./clear
B = 24 Vdc incand./clear
R = 14V LED/red
G = 14V LED/green
Y = 14V LED/amber
K = 28V LED/red
L = 28V LED/green
T = 28V LED/amber
X = 28V LED/blue
H = 14V LED/high intensity red
J = 14V LED/high intensity green
P = 14V LED/high intensity amber
M = 14V LED/high intensity blue

"B" Lamp Type and Color
0 = No lamp
A = 14 Vdc incand./clear
B = 24 Vdc incand./clear
R = 14V LED/red
G = 14V LED/green
Y = 14V LED/amber
K = 28V LED/red
L = 28V LED/green
T = 28V LED/amber
X = 28V LED/blue
H = 14V LED/high intensity red
J = 14V LED/high intensity green
P = 14V LED/high intensity amber
M = 14V LED/high intensity blue

Rocker Assembled
N = No

How To Order—Indicator Cap

To determine complete catalog number, start with the appropriate indicator type and add the appropriate code letters and/or numbers.

Example: **2CAP C AB 1 B AH 0 A**

Indicator Type
2CAP = Two-face, snap-in lens
3CAP = Decorative/ laser-etched
6CAP = Label

Icon/Lens/Hole Location
A = "A" icon only
B = "B" icon only
C = "A" and "B" icons
D = No icon/lens/hole

Icon "A" Code
AB = Battery
See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Icon "A" Color
0 = No icon; no color
1 = Daylight white ①
2 = Deadfront ①
3 = White ②
4 = Black ②
5 = Lens hole (no lens)

Icon "A" Lighted Color or Lens Color
A = Red
B = Green
C = Amber
E = Blue
F = White
G = Clear
0 = Non-lighted or no lens

Icon "B" Code
AH = Fuel
See Symbols Library on **Pages V11-T2-82** to **V11-T2-96**.

Icon "B" Color
0 = No icon; no color
1 = Daylight white ①
2 = Deadfront ①
3 = White ②
4 = Black ②
5 = Lens hole (no lens)

Icon "B" Lighted Color or Lens Color
A = Red
B = Green
C = Amber
E = Blue
F = White
G = Clear
0 = Non-lighted or no lens

Notes
① Decorative rocker only.
② Two-face rocker only.

Technical Data and Specifications

NGR Rocker Switches

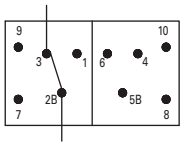
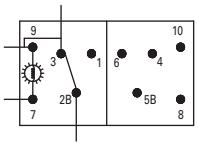
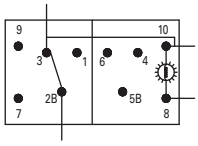
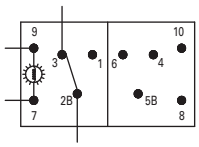
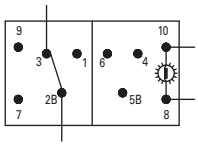
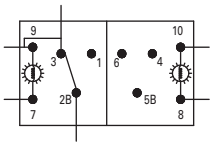
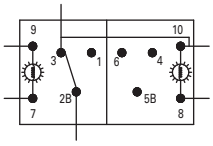
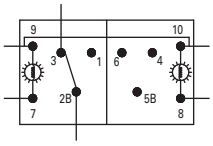
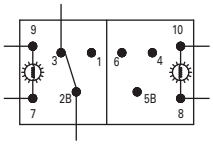
Description	Specification
Ratings ①	15A at 125 Vac, 10A at 250 Vac 15A at 28 Vdc (14 Vdc rating) Approvable under stringent UL and CSA standards
Contact mechanism	Slow-make/slow-break contact mechanism Butt action contact mechanism designed specifically for use on AC and low voltage DC applications
Contact material— Standard construction	Movable—copper alloy with silver alloy contact face button Stationary—silver-plated copper alloy with silver alloy contact face button
Mechanical life	250,000 operations, minimum
Electrical life	200,000 operations, minimum
Terminal type	Standard 0.25 in (6.35 mm) spade, silver-plated copper alloy
Base material	High-grade thermoplastic molding material
Dielectric	1000V rms, minimum
Mounting means	Snap-in mounting with plastic bezel
Mounting hole	Rectangular panel cutout 1.734 x 0.867 in (44 x 22 mm)
Panel thickness	0.040 to 0.156 in (1.0 to 4.0 mm) ② ③
IP rating	Standard IP42; sealed option IP67
Operating temperature range	–40° to 185°F (–40° to 85°C)

Notes

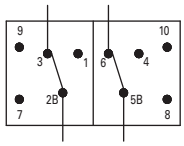
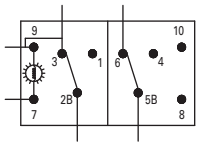
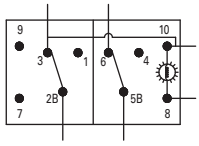
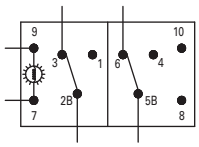
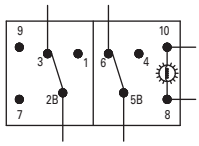
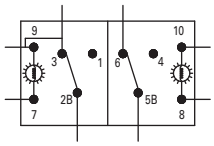
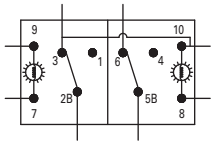
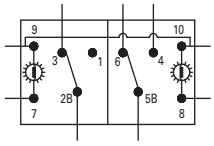
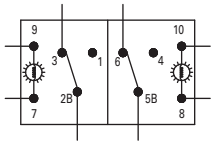
① For information, contact your local Eaton Sales Representative.
② Best results obtained between 0.060 and 0.118 in (1.5 and 3.0 mm).
③ On sealed versions, recommended panel thickness between 0.079 and 0.118 in (2.0 and 3.0 mm).

Standard Circuit Diagrams

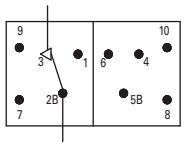
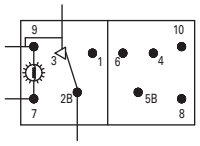
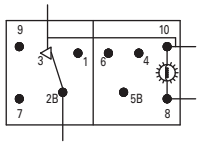
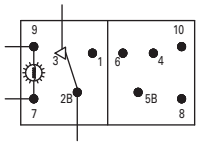
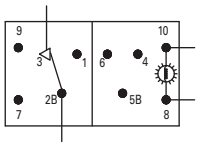
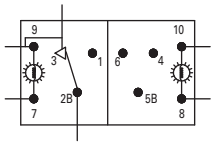
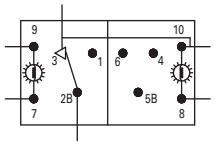
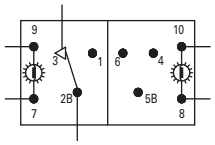
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1001		OFF	NONE	ON
		—	—	2B-3
1501		OFF	NONE	ON
		—	—	2B-3-9
1502		OFF	NONE	ON
		—	—	2B-3-10
1503		OFF	NONE	ON
		—	—	2B-3
1504		OFF	NONE	ON
		—	—	2B-3
1505		OFF	NONE	ON
		—	—	2B-3-9
1506		OFF	NONE	ON
		—	—	2B-3-10
1507		OFF	NONE	ON
		—	—	2B-3-9-10
1508		OFF	NONE	ON
		—	—	2B-3

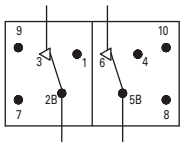
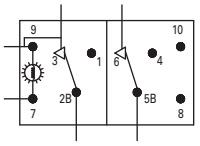
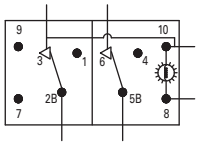
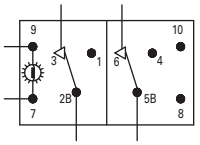
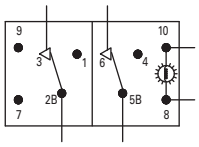
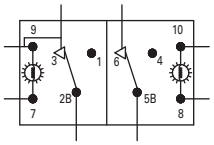
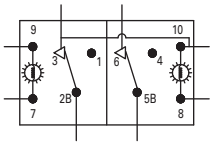
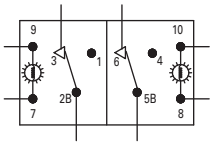
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2001		OFF	NONE	ON
		—	—	2B-3 5B-6
2501		OFF	NONE	ON
		—	—	2B-3-9 5B-6
2502		OFF	NONE	ON
		—	—	2B-3-10 5B-6
2503		OFF	NONE	ON
		—	—	2B-3 5B-6
2504		OFF	NONE	ON
		—	—	2B-3 5B-6
2505		OFF	NONE	ON
		—	—	2B-3-9 5B-6
2506		OFF	NONE	ON
		—	—	2B-3-10 5B-6
2507		OFF	NONE	ON
		—	—	2B-3-9-1 5B-6
2508		OFF	NONE	ON
		—	—	2B-3 5B-6

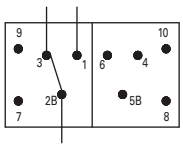
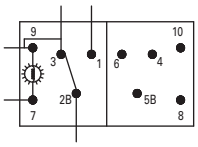
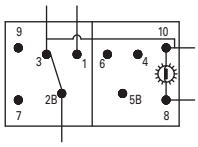
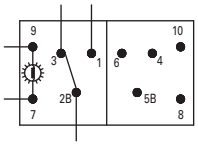
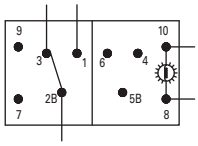
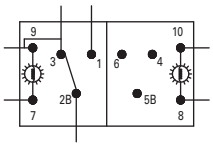
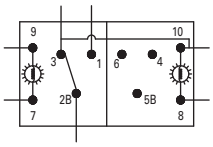
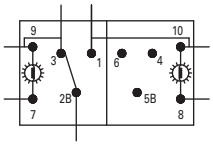
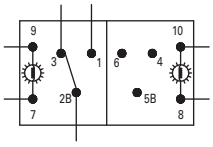
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1002		OFF	NONE	MOM. ON
		—	—	2B-3
1521		OFF	NONE	MOM. ON
		—	—	2B-3-9
1522		OFF	NONE	MOM. ON
		—	—	2B-3-10
1523		OFF	NONE	MOM. ON
		—	—	2B-3
1524		OFF	NONE	MOM. ON
		—	—	2B-3
1525		OFF	NONE	MOM. ON
		—	—	2B-3-9
1526		OFF	NONE	MOM. ON
		—	—	2B-3-10
1528		OFF	NONE	MOM. ON
		—	—	2B-3

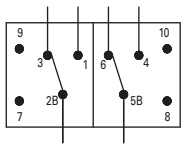
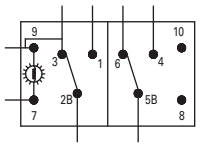
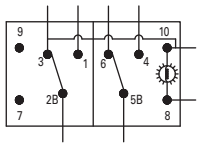
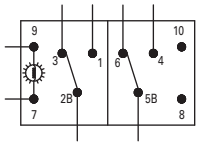
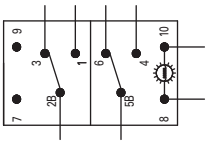
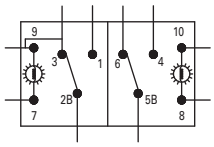
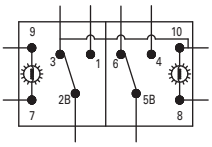
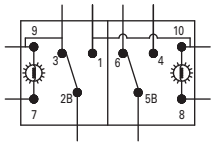
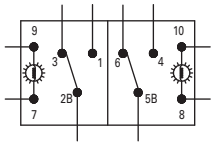
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2002		OFF	NONE	MOM. ON
		—	—	2B-3 5B-6
2521		OFF	NONE	MOM. ON
		—	—	2B-3-9 5B-6
2522		OFF	NONE	MOM. ON
		—	—	2B-3-10 5B-6
2523		OFF	NONE	MOM. ON
		—	—	2B-3 5B-6
2524		OFF	NONE	MOM. ON
		—	—	2B-3 5B-6
2525		OFF	NONE	MOM. ON
		—	—	2B-3-9 5B-6
2526		OFF	NONE	MOM. ON
		—	—	2B-3-10 5B-6
2528		OFF	NONE	MOM. ON
		—	—	2B-3 5B-6

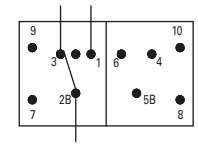
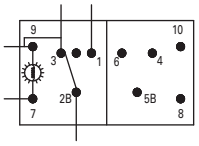
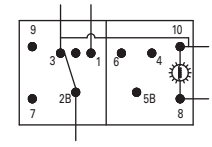
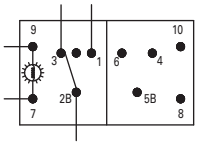
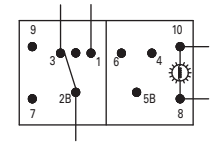
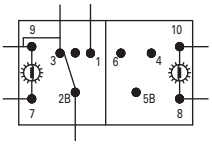
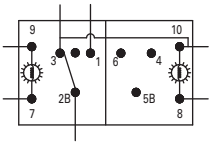
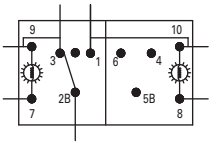
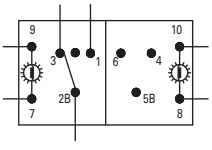
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1003		ON	NONE	ON
		2B-1	—	2B-3
1541		ON	NONE	ON
		2B-1	—	2B-3-9
1542		ON	NONE	ON
		2B-1	—	2B-3-10
1543		ON	NONE	ON
		2B-1	—	2B-3
1544		ON	NONE	ON
		2B-1	—	2B-3
1545		ON	NONE	ON
		2B-1	—	2B-3-9
1546		ON	NONE	ON
		2B-1	—	2B-3-10
1547		ON	NONE	ON
		2B-1-10	—	2B-3-9
1548		ON	NONE	ON
		2B-1	—	2B-3

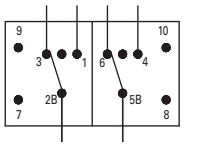
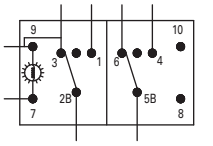
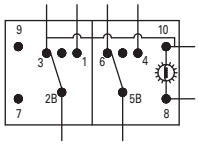
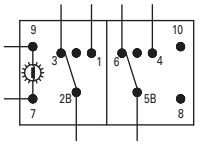
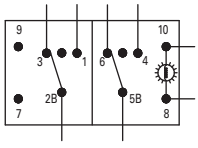
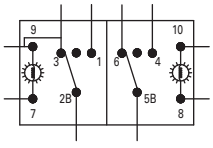
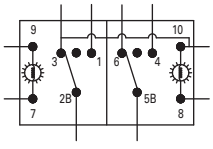
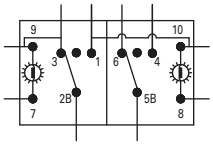
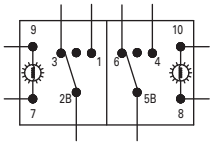
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2003		ON	NONE	ON
		2B-1 5B-4	—	2B-3 5B-6
2541		ON	NONE	ON
		2B-1 5B-4	—	2B-3-9 5B-6
2542		ON	NONE	ON
		2B-1 5B-4	—	2B-3-10 5B-6
2543		ON	NONE	ON
		2B-1 5B-4	—	2B-3 5B-6
2544		ON	NONE	ON
		2B-1 5B-4	—	2B-3 5B-6
2545		ON	NONE	ON
		2B-1 5B-4	—	2B-3-9 5B-6
2546		ON	NONE	ON
		2B-1 5B-4	—	2B-3-10 5B-6
2547		ON	NONE	ON
		2B-1-10 5B-4	—	2B-3-9 5B-6
2548		ON	NONE	ON
		2B-1 5B-4	—	2B-3 5B-6

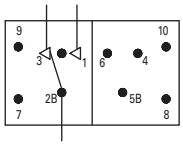
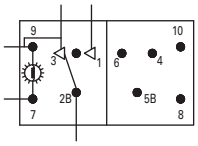
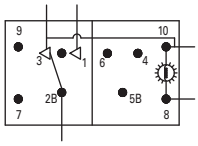
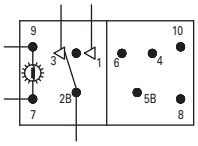
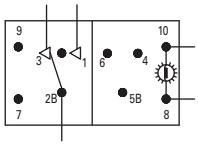
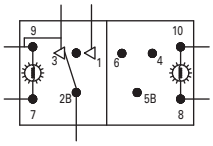
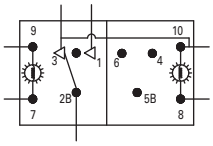
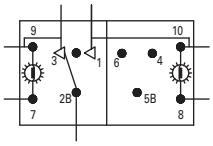
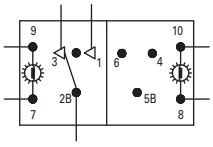
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1004		ON	OFF	ON
		2B-1	—	2B-3
1561		ON	OFF	ON
		2B-1	—	2B-3-9
1562		ON	OFF	ON
		2B-1	—	2B-3-10
1563		ON	OFF	ON
		2B-1	—	2B-3
1564		ON	OFF	ON
		2B-1	—	2B-3
1565		ON	OFF	ON
		2B-1	—	2B-3-9
1566		ON	OFF	ON
		2B-1	—	2B-3-10
1567		ON	OFF	ON
		2B-1-10	—	2B-3-9
1568		ON	OFF	ON
		2B-1	—	2B-3

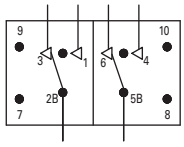
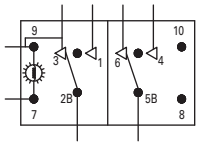
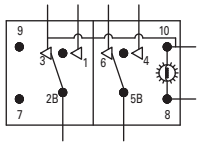
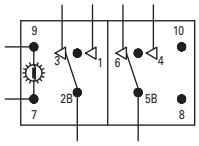
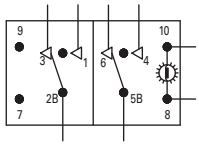
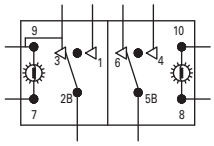
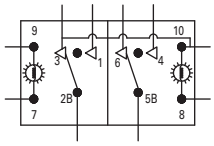
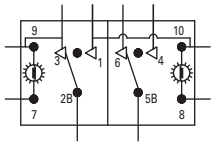
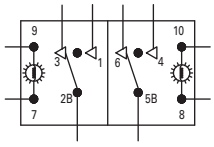
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2004		ON	OFF	ON
		2B-1 5B-4	—	2B-3 5B-6
2561		ON	OFF	ON
		2B-1 5B-4	—	2B-3-9 5B-6
2562		ON	OFF	ON
		2B-1 5B-4	—	2B-3-10 5B-6
2563		ON	OFF	ON
		2B-1 5B-4	—	2B-3 5B-6
2564		ON	OFF	ON
		2B-1 5B-4	—	2B-3 5B-6
2565		ON	OFF	ON
		2B-1 5B-4	—	2B-3-9 5B-6
2566		ON	OFF	ON
		2B-1 5B-4	—	2B-3-10 5B-6
2567		ON	OFF	ON
		2B-1-10 5B-4	—	2B-3-9 5B-6
2568		ON	OFF	ON
		2B-1 5B-4	—	2B-3 5B-6

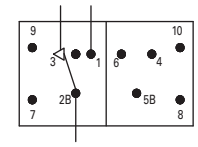
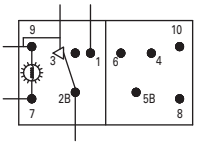
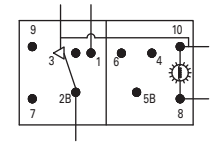
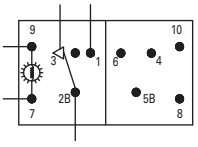
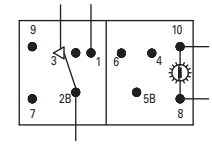
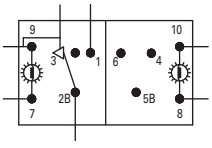
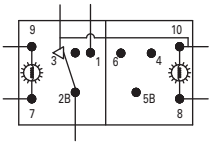
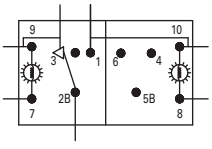
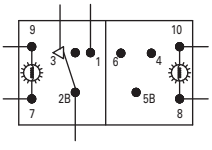
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1005		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3
1581		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3-9
1582		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3-10
1583		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3
1584		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3
1585		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3-9
1586		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3-10
1587		MOM. ON	OFF	MOM. ON
		2B-1-10	—	2B-3-9
1588		MOM. ON	OFF	MOM. ON
		2B-1	—	2B-3

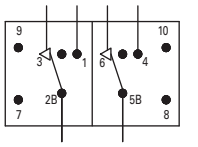
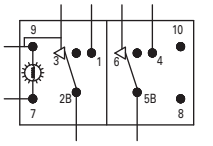
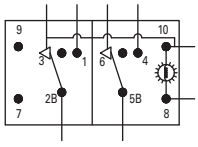
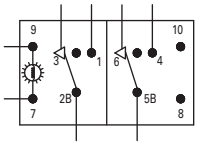
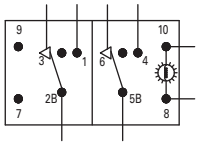
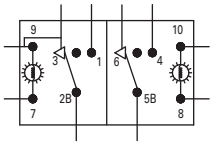
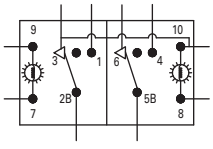
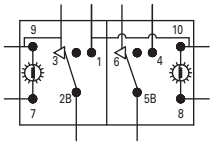
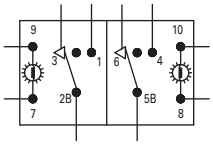
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2005		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2581		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-9 5B-6
2582		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-10 5B-6
2583		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2584		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2585		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-9 5B-6
2586		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-10 5B-6
2587		MOM. ON	OFF	MOM. ON
		2B-1-10 5B-4	—	2B-3-9 5B-6
2588		MOM. ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6

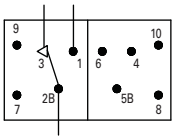
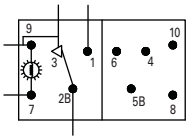
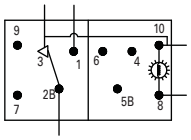
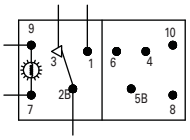
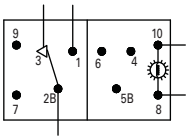
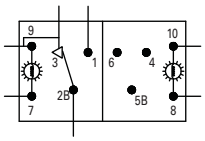
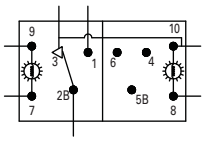
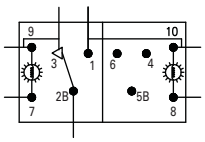
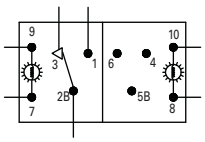
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1006		ON	OFF	MOM. ON
		2B-1	—	2B-3
1601		ON	OFF	MOM. ON
		2B-1	—	2B-3-9
1602		ON	OFF	MOM. ON
		2B-1	—	2B-3-10
1603		ON	OFF	MOM. ON
		2B-1	—	2B-3
1604		ON	OFF	MOM. ON
		2B-1	—	2B-3
1605		ON	OFF	MOM. ON
		2B-1	—	2B-3-9
1606		ON	OFF	MOM. ON
		2B-1	—	2B-3-10
1607		ON	OFF	MOM. ON
		2B-1-10	—	2B-3-9
1608		ON	OFF	MOM. ON
		2B-1	—	2B-3

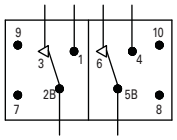
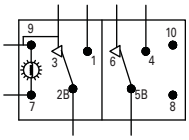
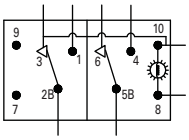
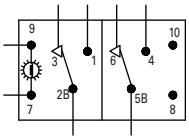
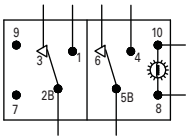
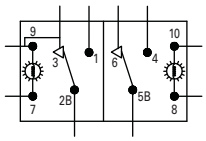
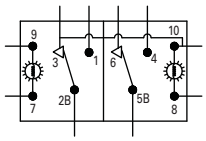
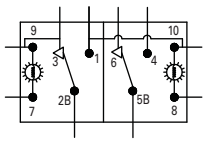
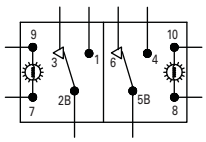
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2006		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2601		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-9 5B-6
2602		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-10 5B-6
2603		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2604		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6
2605		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-9 5B-6
2606		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3-10 5B-6
2607		ON	OFF	MOM. ON
		2B-1-10 5B-4	—	2B-3-9 5B-6
2608		ON	OFF	MOM. ON
		2B-1 5B-4	—	2B-3 5B-6

Single-Pole

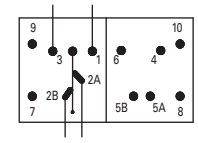
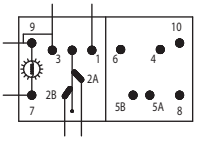
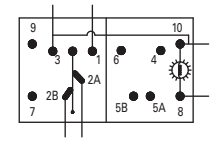
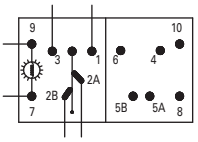
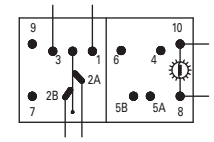
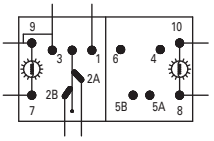
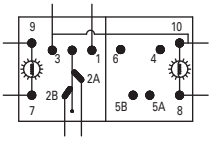
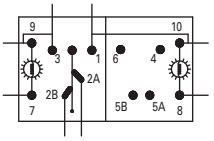
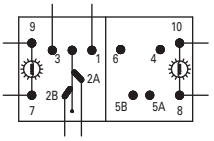
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1007		ON	NONE	MOM ON
		2B-1	—	2B-3
1621		ON	NONE	MOM ON
		2B-1	—	2B-3-9
1622		ON	NONE	MOM ON
		2B-1	—	2B-3-10
1623		ON	NONE	MOM ON
		2B-1	—	2B-3
1624		ON	NONE	MOM ON
		2B-1	—	2B-3
1625		ON	NONE	MOM ON
		2B-1	—	2B-3-9
1626		ON	NONE	MOM ON
		2B-1	—	2B-3-10
1627		ON	NONE	MOM ON
		2B-1-10	—	2B-3-9
1628		ON	NONE	MOM ON
		2B-1	—	2B-3

Two-Pole

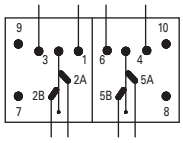
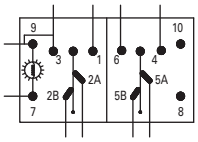
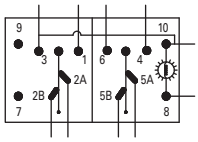
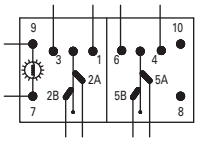
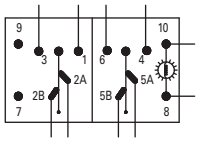
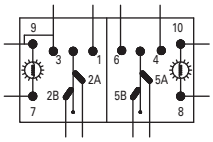
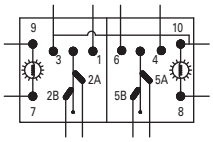
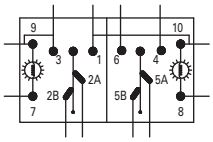
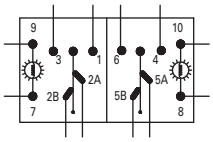
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
2007		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3 5B-6
2621		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3-9 5B-6
2622		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3-10 5B-6
2623		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3 5B-6
2624		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3 5B-6
2625		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3-9 5B-6
2626		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3-10 5B-6
2627		ON	NONE	MOM ON
		2B-1-10 5B-4	—	2B-3-9 5B-6
2628		ON	NONE	MOM ON
		2B-1 5B-4	—	2B-3 5B-6

2

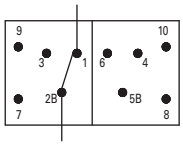
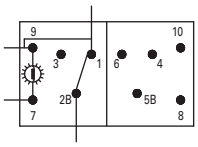
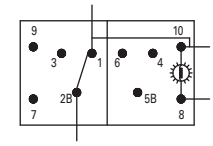
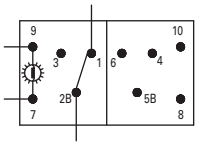
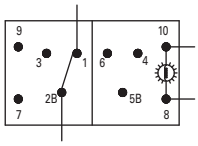
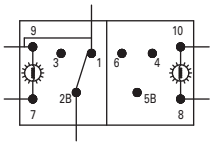
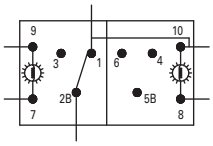
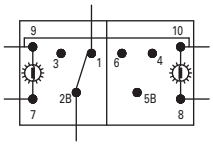
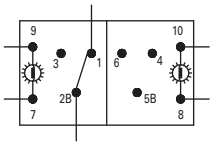
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
3003		OFF	ON	ON
		2A-1	2A-2B	2B-3
3541		OFF	ON	ON
		2A-1	2A-2B	2B-3-9
3542		OFF	ON	ON
		2A-1	2A-2B	2B-3-10
3543		OFF	ON	ON
		2A-1	2A-2B	2B-3
3544		OFF	ON	ON
		2A-1	2A-2B	2B-3
3545		OFF	ON	ON
		2A-1	2A-2B	2B-3-9
3546		OFF	ON	ON
		2A-1	2A-2B	2B-3-10
3547		OFF	ON	ON
		2A-1-10	2A-2B	2B-3-9
3548		OFF	ON	ON
		2A-1	2A-2B	2B-3

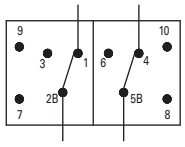
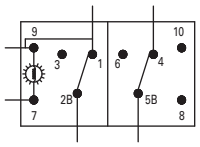
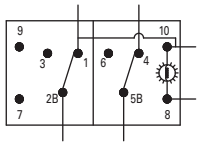
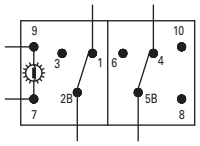
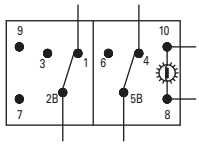
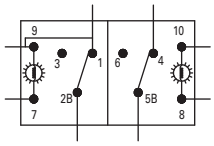
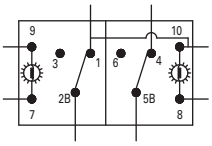
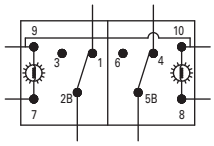
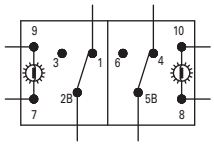
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
3004		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
3561		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
3562		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3-10 5B-6
3563		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
3564		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
3565		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
3566		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3-10 5B-6
3567		OFF	ON	ON
		2A-1-10 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
3568		OFF	ON	ON
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6

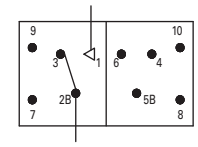
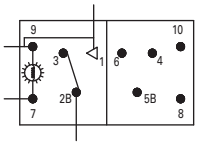
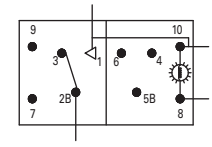
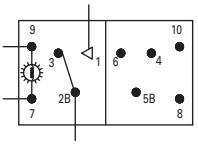
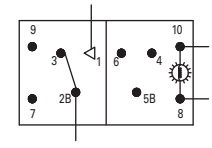
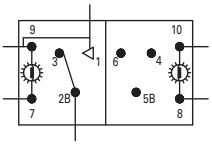
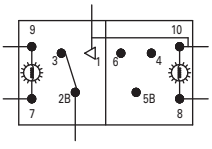
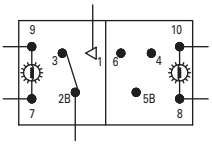
Single-Pole

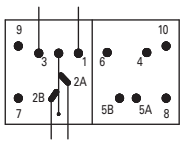
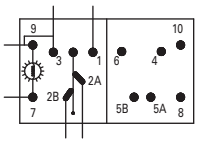
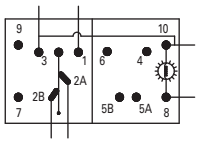
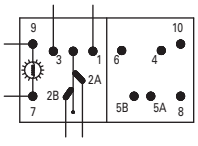
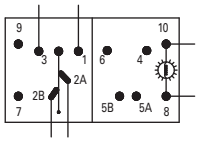
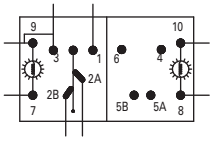
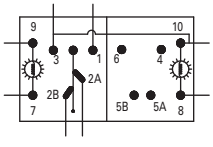
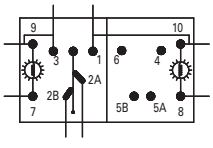
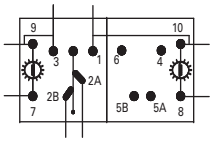
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5001		ON	NONE	OFF
		2B-1	—	—
5501		ON	NONE	OFF
		2B-1-9	—	—
5502		ON	NONE	OFF
		2B-1-10	—	—
5503		ON	NONE	OFF
		2B-1	—	—
5504		ON	NONE	OFF
		2B-1	—	—
5505		ON	NONE	OFF
		2B-1-9	—	—
5506		ON	NONE	OFF
		2B-1-10	—	—
5507		ON	NONE	OFF
		2B-1-9-10	—	—
5508		ON	NONE	OFF
		2B-1	—	—

Two-Pole

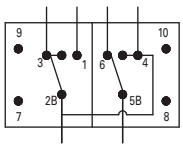
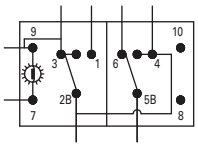
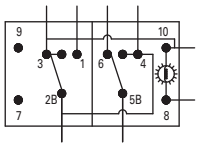
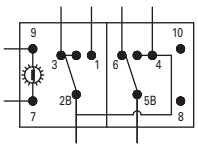
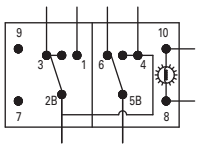
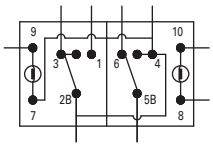
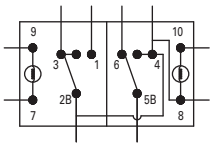
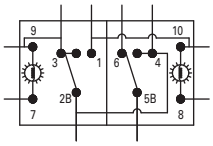
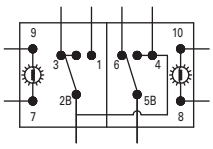
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5510		ON	NONE	OFF
		2B-1 5B-4	—	—
5511		ON	NONE	OFF
		2B-1-9 5B-4	—	—
5512		ON	NONE	OFF
		2B-1-10 5B-4	—	—
5513		ON	NONE	OFF
		2B-1 5B-4	—	—
5514		ON	NONE	OFF
		2B-1 5B-4	—	—
5515		ON	NONE	OFF
		2B-1-9 5B-4	—	—
5516		ON	NONE	OFF
		2B-1-10 5B-4	—	—
5517		ON	NONE	OFF
		2B-1-9-10 5B-4	—	—
5518		ON	NONE	OFF
		2B-1 5B-4	—	—

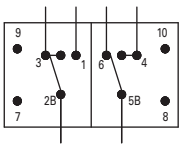
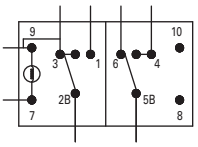
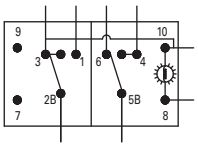
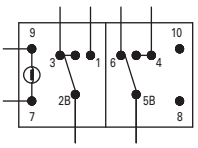
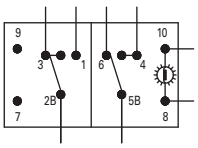
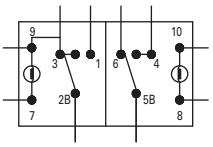
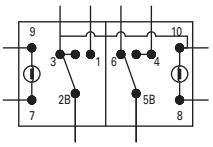
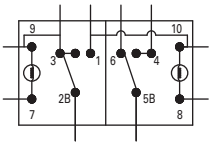
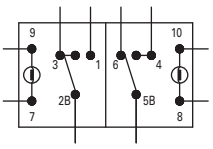
Single-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5002		MOM. ON	NONE	OFF
		2B-1	—	—
5521		MOM. ON	NONE	OFF
		2B-1-9	—	—
5522		MOM. ON	NONE	OFF
		2B-1-10	—	—
5523		MOM. ON	NONE	OFF
		2B-1	—	—
5524		MOM. ON	NONE	OFF
		2B-1	—	—
5525		MOM. ON	NONE	OFF
		2B-1-9	—	—
5526		MOM. ON	NONE	OFF
		2B-1-10	—	—
5528		MOM. ON	NONE	OFF
		2B-1	—	—

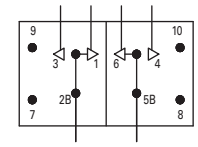
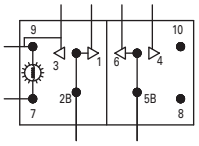
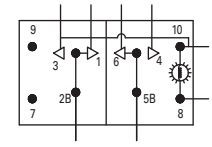
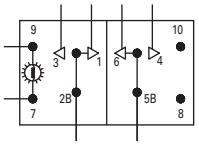
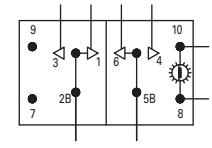
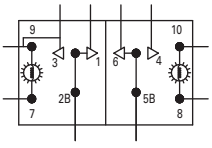
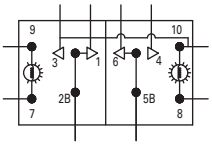
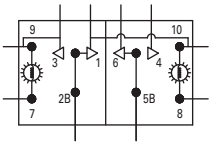
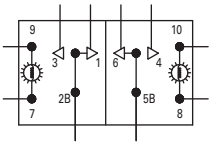
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5003		ON	ON	OFF
		2A-1	2A-2B	2B-3
5541		ON	ON	OFF
		2A-1	2A-2B	2B-3-9
5542		ON	ON	OFF
		2A-1	2A-2B	2B-3-10
5543		ON	ON	OFF
		2A-1	2A-2B	2B-3
5544		ON	ON	OFF
		2A-1	2A-2B	2B-3
5545		ON	ON	OFF
		2A-1	2A-2B	2B-3-9
5546		ON	ON	OFF
		2A-1	2A-2B	2B-3-10
5547		ON	ON	OFF
		2A-1-10	2A-2B	2B-3-9
5548		ON	ON	OFF
		2A-1	2A-2B	2B-3

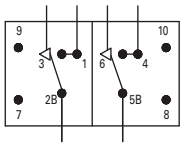
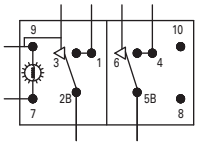
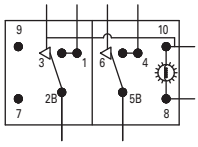
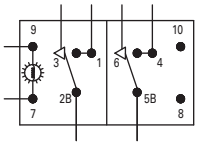
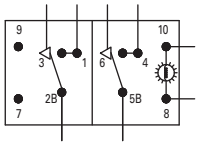
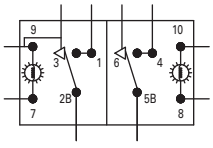
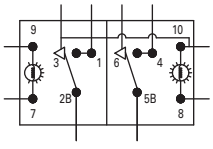
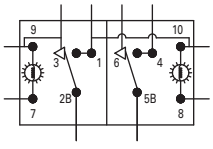
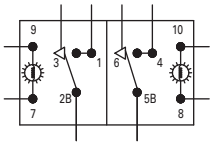
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
3001		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6
3501		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3-9	2B-3-9 5B-6
3502		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3-10	2B-3-10 5B-6
3503		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6
3504		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6
3505		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6
3506		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6
3507		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3-9	2B-3-9 5B-6
3508		ON	ON	ON
		5B-4-2B-1	5B-4-2B-3	2B-3 5B-6

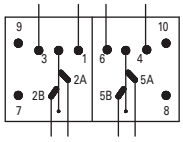
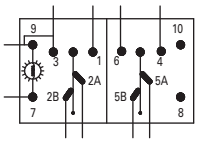
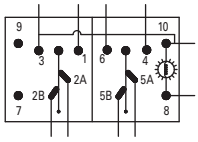
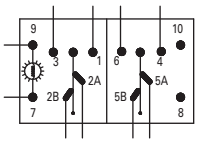
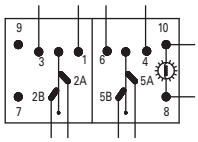
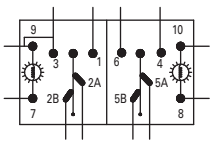
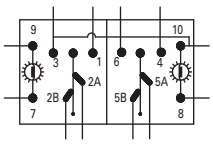
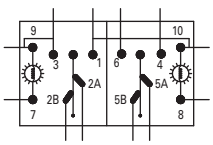
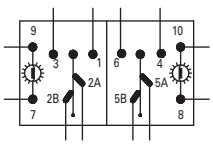
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
3002		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
3521		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
3522		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3-10 5B-4	2B-3-10 5B-6
3523		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
3524		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
3525		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
3526		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3-10 5B-4	2B-3-10 5B-6
3527		OFF	1–ON	2–ON
		2B-1-10 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
3528		OFF	1–ON	2–ON
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6

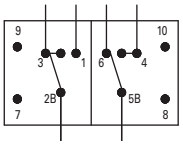
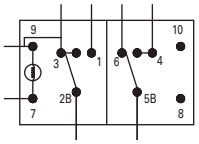
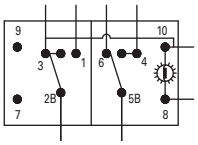
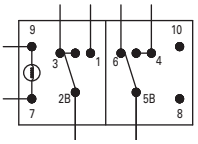
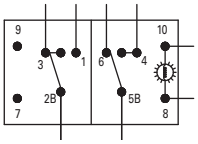
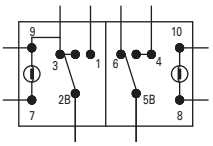
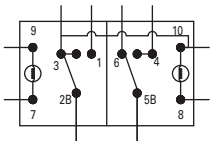
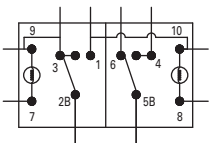
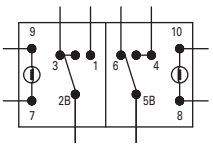
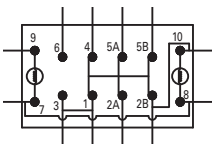
Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
3005		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3 5B-6
3581		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3-9 5B-6
3582		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3-10 5B-6
3583		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3 5B-6
3584		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3 5B-6
3585		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3-9 5B-6
3586		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3-10 5B-6
3587		MOM. ON 2B-1-10 5B-4	ON 2B-1-10 5B-6	MOM. ON 2B-3-9 5B-6
3588		MOM. ON 2B-1 5B-4	ON 2B-1 5B-6	MOM. ON 2B-3 5B-6

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
4001		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3 5B-6
4501		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3-9 5B-6
4502		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3-10 5B-6
4503		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3 5B-6
4504		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3 5B-6
4505		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3-9 5B-6
4506		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3-10 5B-6
4507		NONE 2B-1-10 5B-4	ON 2B-1-10 5B-4	MOM. ON 2B-3-9 5B-6
4508		NONE 2B-1 5B-4	ON 2B-1 5B-4	MOM. ON 2B-3 5B-6

Two-Pole

Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5004		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
5561		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
5562		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3-10 5B-6
5563		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
5564		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6
5565		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
5566		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3-10 5B-6
5567		ON	ON	OFF
		2A-1-10 5A-4	2A-2B 5A-5B	2B-3-9 5B-6
5568		ON	ON	OFF
		2A-1 5A-4	2A-2B 5A-5B	2B-3 5B-6

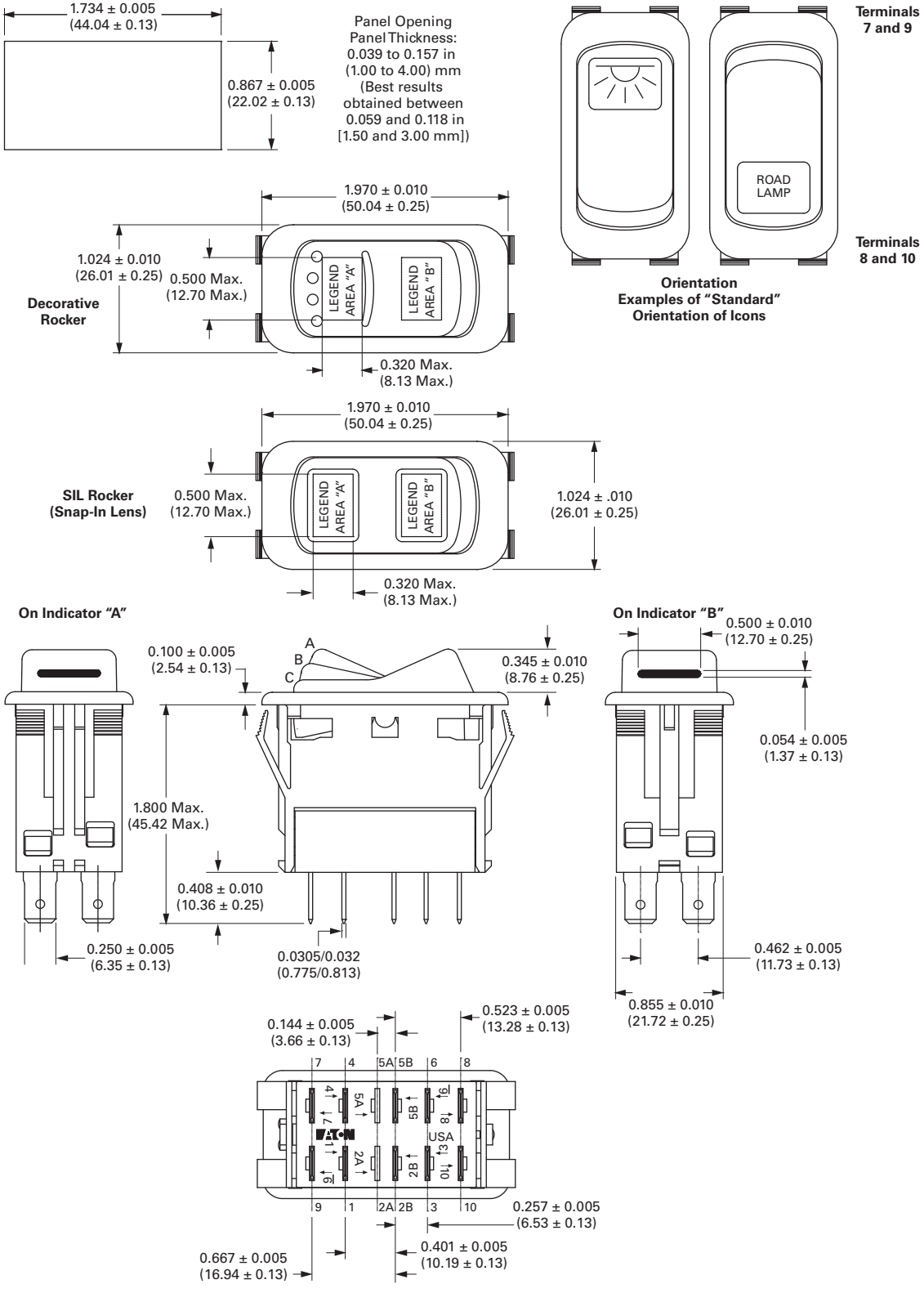
Circuit No.	Schematic (Shown in UP Position)	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
5005		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
5581		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
5582		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3-10 5B-4	2B-3-10 5B-6
5583		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
5584		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3 5B-4	2B-3 5B-6
5585		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
5586		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3-10 5B-4	2B-3-10 5B-6
5587		2–ON	1–ON	OFF
		2B-1-10 5B-4	2B-3-9 5B-4	2B-3-9 5B-6
5588		2–ON	1–ON	OFF
		2B-1 5B-4	2B-3 5B-4	2B-3-9 5B-6
6001		ON	NONE	ON
		2A-2B-5A-5B-10-1-4-3	—	3-6-1

Dimensions

Approximate Dimensions in Inches (mm)

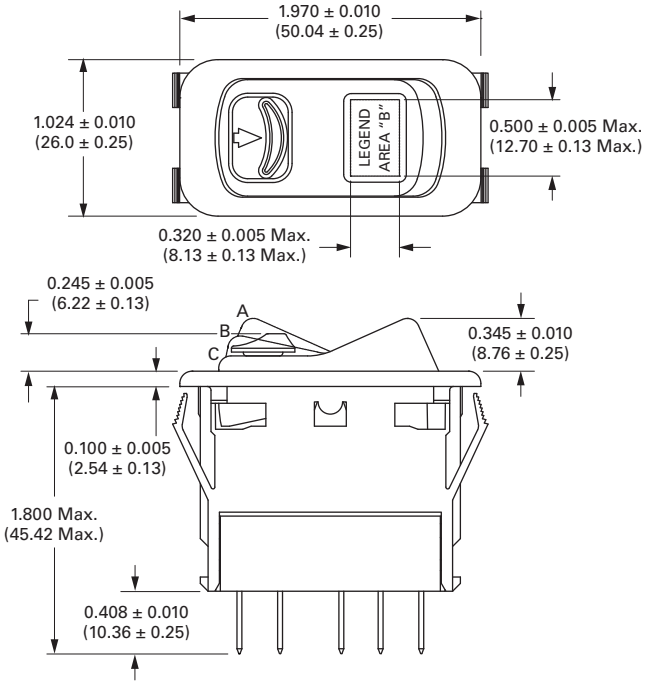
2

Switch Base with Rocker Button

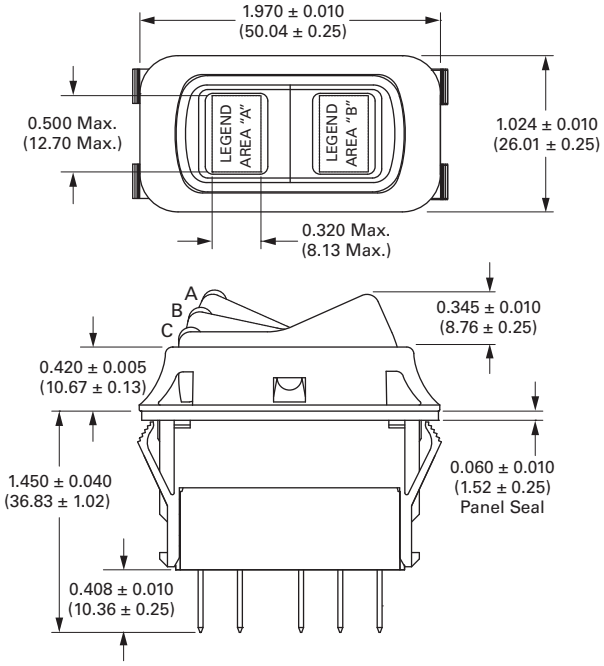


Approximate Dimensions in Inches (mm)

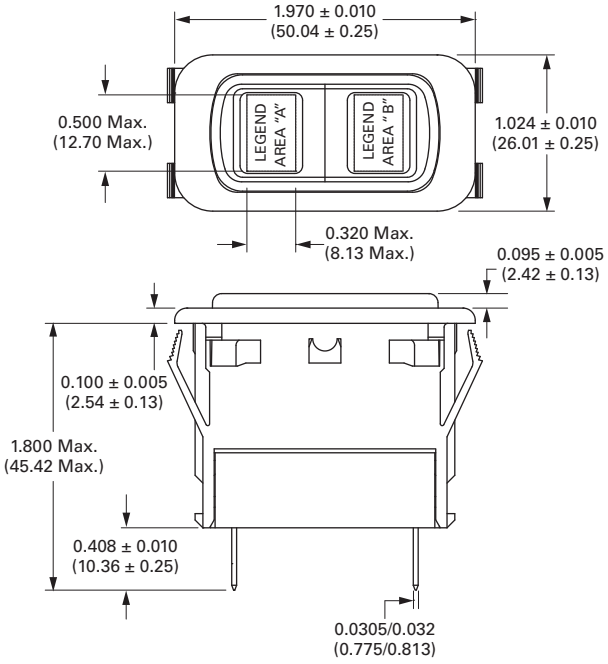
Locking Rocker



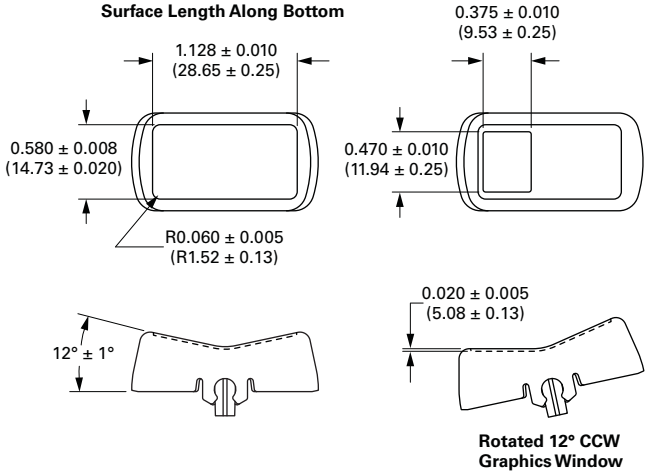
Sealed Rocker



Indicator



Label Rocker



Note: Graphics window may be on both ends or either end of part. Dimensions shown are typical.

SVR—Sealed Vehicle Rocker

2

Contents

Description	*Page*
SVR—Sealed Vehicle Rockers	
Above-Panel Rocker Switch	**V11-T2-34**
Below-Panel Rocker Switch	**V11-T2-35**
Technical Data and Specifications	**V11-T2-36**
Circuit Diagrams	**V11-T2-37**
Dimensions	**V11-T2-38**

Product Description

The Sealed Vehicle Rocker (SVR) switch from Eaton's electrical business now offers an above panel actuator style in addition to the below panel and paddle actuators. Designed to meet the severe environmental requirements of the construction and agricultural vehicle markets, the SVR is sealed at the front and back of the switch and meets the rigorous sealing requirements of IP68.

The small switch footprint minimizes the space taken on switch panels. SVR switches are assembled into panels by pressing the switch through the top of the panel and are held in place by retention tabs molded into the body of the switch; mounting hardware or special tools are not necessary.

The SVR is offered in single- and two-pole switch circuits, with two- and three-position momentary and maintained circuits available. Switch and illumination circuits are terminated with 0.11 in (2.8 mm) tin-plated copper alloy spade terminals. The SVR connector can be loaded with the appropriate terminals and/or wire seals to accomplish sealing at the back end of the switch.

Features

You can order assembled switches or the switch base and actuator separately.

Use the final code in the switch base catalog number, **Pages V11-T2-34** and **V11-T2-35**, to denote assembly instructions.

Actuator

The SVR switch family includes three styles of actuators: above panel, below panel and paddle.

Switch performance and specifications are the same for all actuator styles. Black is standard, but other colors are also available. Matte finish is standard on all actuator styles, matching the finish on the bezels and all other visible SVR switch features and accessories.

Actuator Styles

- Above panel rocker button offers new styling and a larger surface area. Eaton can offer assistance with unique designs of above panel actuators for applications where differentiation is desired
- Below panel rocker button is the same two-faced European styling that has been offered for SVR since its initial release. Indicator style matches the below panel rocker button style
- Paddle actuator allows toggle-type actuation of the SVR switch

Standards and Certifications

- Approvable under stringent UL and CSA standards
- For information, contact your local Eaton Sales Representative
- RoHS Compliant ①

RoHS COMPLIANT

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Illumination

Long life LEDs provide backlighting illumination for the SVR switch. Backlighting can be either independent of or dependent on the switch circuits, or a combination of both. Standard LED color is amber, with red, green and blue also available. LED protection circuitry is available to protect the LED from overvoltage and reverse voltage conditions.

Contact your local Eaton Sales Representative for more specific information about standard and custom circuit options.

Backlighting

- Each switch can accommodate up to two LEDs that can be connected to be either circuit dependent or independent
- Standard LED color is amber, with red, green and blue also available. Long life (100,000 hours) LEDs are standard
- Standard LED voltages are 12 and 24 Vdc
- The below panel rocker button style includes a single-piece back-lit actuator with laser-etched icons in either daylight white or deadfront styles. Without illumination, the icon is either daylight white or deadfront, but will change to the color of the chosen light source when illuminated

Snap-in Lenses

- Above and below panel rocker buttons are available with or without one or two translucent lenses. Five standard lens colors are available: white, red, green, blue and amber

Icons

- Icon areas are provided on each end of the rocker button. Icons may be illuminated or non-illuminated and are pad-printed in a contrasting color either directly on the rocker button or the lens

Mounting Means

Snap-in mounting using four flexible plastic retainers integral with switch frame.

Circuits

The SVR switch is capable of single- or two-pole configurations with two- or three-position maintained, momentary or a combination of actuations.

The addition of jumpers between switch terminals expands the circuit possibilities.

Contact your local Eaton Sales Representative for more specific information about SVR standard and custom circuit options.

Standard Circuit Options

- ON–NONE–ON
- ON–OFF–ON
- ON*–OFF–ON*
- ON*–OFF–ON
- ON–ON–ON
- ON*–NONE–ON
- ON*–ON–ON*
- ON*–ON–ON

Note: * = Momentary. See Electrical Circuit Diagrams on **Page V11-T2-37**.

Sealing

SVR design includes a sealed contact chamber with dust and water resistance to IP68. The harness connection can also be sealed by using AMP wire seals Catalog Number 828905-1 (14–16 gauge) or 828904-1 (18–20 gauge) to seal the wires to the connector. For an application where a connector cavity is not being used, it can be sealed with AMP sealing plug Catalog Number 828922-1.

The above panel version may also be sealed to the panel using panel seal Catalog Number 32-2245.

Options

- Additional colors of actuators, mounting bezels and lenses
- Special circuits
- Special ratings
- Pad printing on the below panel switch bezel
- Low current capabilities
- Custom back-lit icons
- Gang-mount system including end bezel Catalog Number 17-22146 and center bezel 17-22152
- Palm Guard (below panel switch only) at either or both ends of the switch frame
- Indicators with insertable lenses
- Polarized lock-on connector Catalog Number 25-13936
- Panel plug with connector retention feature Catalog Number 17-22145
- Non-illuminated below panel paddle actuator

Note: Contact your local Eaton Sales Representative for additional information on options.

2

Above-Panel Rocker Switch

Catalog Number Selection

How To Order—Above-Panel SVR Switch

To determine complete catalog number, start with the appropriate switch series and add the appropriate code letters and/or numbers.

Example: **S AC M 2X D G AT R AV X X**

Switch Series

S = SVR

Switch Circuits/Illumination Circuits

1st Digit (Circuit)	2nd Digit (Illumination)
	Single-Pole Illumination
A = ON–NONE–ON **C** = ON–NONE–ON ① **D** = ON–OFF–ON **E** = ON–OFF–ON ① **F** = ON*–OFF–ON* **G** = ON*–OFF–ON* ① **H** = ON*–OFF–ON **J** = ON*–OFF–ON ① **K** = ON–ON–ON ② **L** = ON–ON–ON ①② **M** = ON*–NONE–ON **P** = ON*–NONE–ON ① **R** = ON*–ON–ON* ② **S** = ON*–ON–ON* ①② **T** = ON*–ON–ON **U** = ON*–ON–ON ①	**A** = None **C** = Top/left (D) **D** = Bottom/right (D) **E** = Top/left (I) **F** = Bottom/right (I) **G** = Top/left (D)/bottom/right (I) **H** = Top/left (I)/bottom/right (D) **J** = Top/left (D)/bottom/right (D) **K** = Top/left (I)/bottom/right (I)
	Two-Pole Illumination
	R = None **S** = Top/left (D) **T** = Bottom/right (D) **U** = Top/left (I) **V** = Bottom/right (I) **W** = Top/left (D)/bottom/right (I) **Y** = Top/left (I)/bottom/right (D) **3** = Top/left (D)/bottom/right (D) **4** = Top/left (I)/bottom/right (I)

KEY: * = Momentary, **(I)** = Independent, **(D)** = Dependent.

Frame

M = Standard

LED (Top/Left)

1st Digit

X = None

14V Standard

J = Red
K = Green
L = Amber (standard for lensed rockers)
M = Blue
N = White (standard for decorative rockers)

14V Over/Reverse Voltage Protection

1 = Red
2 = Green
3 = Amber (standard)
7 = Blue

28V Standard

E = Red
F = Green
G = Amber (standard for lensed rockers)
H = Blue
P = White (standard for decorative rockers)

28V Over/Reverse Voltage Protection

4 = Red
5 = Green
6 = Amber (standard)
8 = Blue

LED (Bottom/Right)

2nd Digit

X = None

Same codes available as 1st digit.

LED Wavelengths:
Red = ~630 Nm
Amber = ~592 Nm
Green = ~526 Nm
Blue = ~472 Nm

White LED Coordinates:
White = 0.31 x 0.31

Actuator Style

A = Decorative rocker
C = No lens
D = Top/left lens only
E = Bottom/right lens only
F = Top/left and Bottom/right lenses

Lens Color (Top/Left)

X = None
R = Red
G = Green
B = Blue
A = Amber
W = White

Decorative Icon Color

X = No icon
1 = Daylight white

Icon (Top/Left)

XX = None
AT = Work light

See Symbols Library on **Pages V11-T2-82** to **V11-T2-86** and **V11-T2-97** to **V11-T2-104**.

Lens Color (Bottom/Right)

X = None
R = Red
G = Green
B = Blue
A = Amber
W = White

Decorative Icon Color

X = No icon
1 = Daylight white
2 = Deadfront

Icon (Bottom/Right)

XX = None
AV = Hazard

See Symbols Library on **Pages V11-T2-82** to **V11-T2-86** and **V11-T2-97** to **V11-T2-104**.

Rocker Color

X = Black
R = Red ③

Special Feature

X = None

For Eaton use only.

Notes

① Gold plated.
② Two-pole only. See Electrical Circuit Diagrams on **Page V11-T2-37** and Illumination Circuit Diagrams on **Page V11-T2-38**.
③ For red rocker, only actuator style options A, C and F are available.

Below-Panel Rocker Switch

Catalog Number Selection

How To Order—Below-Panel Rocker Switch

To determine complete catalog number, start with the appropriate switch series and add the appropriate code letters and/or numbers.

Example: **S AC S 2X 3 G AT R AC X X**

Switch Series

S = SVR

Switch Circuits/Illumination Circuits

1st Digit (Circuit)	2nd Digit (Illumination)
	Single-Pole Illumination
A = ON–NONE–ON **C** = ON–NONE–ON ① **D** = ON–OFF–ON **E** = ON–OFF–ON ① **F** = ON*–OFF–ON* **G** = ON*–OFF–ON* ① **H** = ON*–OFF–ON **J** = ON*–OFF–ON ① **K** = ON–ON–ON ② **L** = ON–ON–ON ①② **M** = ON*–NONE–ON **P** = ON*–NONE–ON ① **R** = ON*–ON–ON* ② **S** = ON*–ON–ON* ①② **T** = ON*–ON–ON **U** = ON*–ON–ON ①	**A** = None **C** = Top/left (D) **D** = Bottom/right (D) **E** = Top/left (I) **F** = Bottom/right (I) **G** = Top/left (D)/bottom/right (I) **H** = Top/left (I)/bottom/right (D) **J** = Top/left (D)/bottom/right (D) **K** = Top/left (I)/bottom/right (I)
	Two-Pole Illumination
	R = None **S** = Top/left (D) **T** = Bottom/right (D) **U** = Top/left (I) **V** = Bottom/right (I) **W** = Top/left (D)/bottom/right (I) **Y** = Top/left (I)/bottom/right (D) **3** = Top/left (D)/bottom/right (D) **4** = Top/left (I)/bottom/right (I)

1st and 2nd Digit Indicators

NE = 7–9 Illumination
NF = 8–10 Illumination
NK = Dual Illumination
N9 = Dual Illumination with 8–9 jumper

KEY: * = Momentary, **(I)** = Independent, **(D)** = Dependent.

Frame

S = Standard—Below panel
T = Palm Guard—Top/left
B = Palm Guard—Bottom/right
F = Palm Guard—Full

LED (Top/Left)

1st Digit

X = None

14V Standard

J = Red
K = Green
L = Amber (standard)
M = Blue

14V Over/Reverse Voltage Protection

1 = Red
2 = Green
3 = Amber (standard)
7 = Blue

28V Standard

E = Red
F = Green
G = Amber (standard)
H = Blue

28V Over/Reverse Voltage Protection

4 = Red
5 = Green
6 = Amber (standard)
8 = Blue

LED (Bottom/Right)

2nd Digit

X = None
Same codes available as 1st digit.

LED Wavelengths:
Red = ~630 Nm
Amber = ~592 Nm
Green = ~526 Nm
Blue = ~472 Nm

Actuator Style

1 = No lens
2 = Top/left lens only
3 = Bottom/right lens only
4 = Top/left and bottom/right lenses
5 = Paddle—No lens
6 = Indicator—Top/left lens
7 = Indicator—Bottom/right lens
8 = Indicator—Top/left and Bottom/right lens
9 = Indicator—No lens
A = Decorative rocker

Lens Color (Top/Left)

X = None	**B** = Blue
R = Red	**A** = Amber
G = Green	**W** = White

Decorative Icon Color

1 = Daylight white
2 = Deadfront

Icon (Top/Left)

XX = None
AT = Work light
See Symbols Library on **Pages V11-T2-82** to **V11-T2-86** and **V11-T2-97** to **V11-T2-104**.

Lens Color (Bottom/Right)

X = None	**B** = Blue
R = Red	**A** = Amber
G = Green	**W** = White

Decorative Icon Color

1 = Daylight white
2 = Deadfront

Icon (Bottom/Right)

XX = None
AC = Fast
See Symbols Library on **Pages V11-T2-82** to **V11-T2-86** and **V11-T2-97** to **V11-T2-104**.

Special Feature

X = None
For Eaton use only.

Special Feature

X = None
For Eaton use only.

Notes

① Gold plated.

② Two-pole only. See Electrical Circuit Diagrams on **Page V11-T2-37** and Illumination Circuit Diagrams on **Page V11-T2-38**.

Technical Data and Specifications

SVR—Sealed Vehicle Rocker

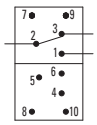
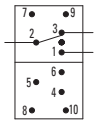
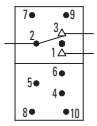
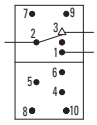
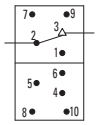
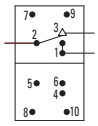
Description	Specification
Ratings	12A at either 12 or 24 Vdc, can be approved under stringent UL and CSA standards
Electrical life	
Standard plating	50,000 operations at 12A at either 12 or 24 Vdc. Life cycle testing conducted using both inductive and resistive loads
Gold plating	250,000 (maintained circuits)/50,000 (momentary circuits) operations at 10 mA at either 12 or 24 Vdc
Mechanical life	
Maintained circuits	250,000 operations minimum
Momentary circuits	50,000 operations minimum
Circuits	Single- or two-pole, two- or three-position, with momentary and maintained capabilities
Dielectric strength	1500 volts rms minimum
Operate force	1–3 lbs (4.4–13.2 Nm) depending on circuit configuration and actuator style
Temperature	
Operating range	–40° to 185°F (–40° to 85°C)
Storage range	–40° to 185°F (–40° to 85°C)
Contact material	
Movable	Copper alloy with silver alloy contact surface
Stationary	Silver-plated copper alloy with silver alloy contact surface
Gold-plated	Contacts are available for low level electrical loads
Terminal type	Standard 0.11 in (2.8 mm) tin-plated copper alloy spade terminal Mates to AMP Junior Power Timer Terminals ① Catalog Number 927766-3 (14–16 gauge) Catalog Number 927770-3 (18–20 gauge)
Plastic component UL ratings	
Base material	UL 94 V-0
Frame material	UL 94 H-B
IP rating	IP68
Sub-actuator material	UL 94 V-0
Actuator material	UL 94 V-0 (above panel rocker button) UL 94 H-B (below panel rocker button and paddle actuator)
Mounting hole	Standard panel cutout of 1.45 x 0.83 in (36.8 x 21.1 mm)
Panel thickness	0.04 to 0.16 in (1.0 to 4.0 mm) Best results obtained between 0.06 and 0.12 in (1.5 and 3.0 mm)

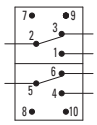
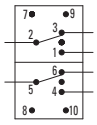
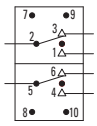
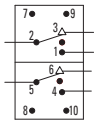
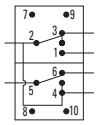
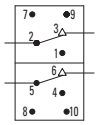
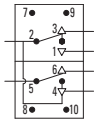
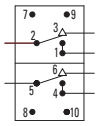
Note

① See also Sealing, **Page V11-T2-33**, for additional AMP components to seal the connector interface.

Circuit Diagrams

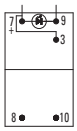
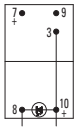
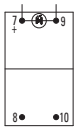
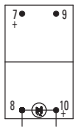
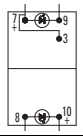
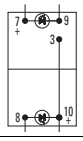
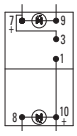
Switch Circuit Schematics

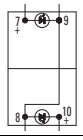
Code	Single-Pole Schematic (Shown in Top/left Actuated Position)	TOP/ LEFT Actuated	CENTER	BOTTOM/ RIGHT Actuated
A C (Gold)		ON	NONE	ON
		2–3	—	2–1
D E (Gold)		ON	OFF	ON
		2–3	—	2–1
F G (Gold)		MOM. ON	OFF	MOM. ON
		2–3	—	2–1
H J (Gold)		MOM. ON	OFF	ON
		2–3	—	2–1
K L (Gold)			Two-pole only	
M P (Gold)		MOM. ON	NONE	ON
		2–3	—	2–1
R S (Gold)			Two-pole only	
T U (Gold)		MOM. ON	ON	ON
		2–3	2–1	2–1

Code	Two-Pole Schematic (Shown in Top/left Actuated Position)	TOP/ LEFT Actuated	CENTER	BOTTOM/ RIGHT Actuated
A C (Gold)		ON	NONE	ON
		2–3 5–6	— —	2–1 5–4
D E (Gold)		ON	OFF	ON
		2–3 5–6	— —	2–1 5–4
F G (Gold)		MOM. ON	OFF	MOM. ON
		2–3 5–6	— —	2–1 5–4
H J (Gold)		MOM. ON	OFF	ON
		2–3 5–6	— —	2–1 5–4
K L (Gold)		ON	ON	ON
		2–3 5–6	5–4–2–3	5–4–2–1
M P (Gold)		MOM. ON	NONE	ON
		2–3 5–6	— —	2–1 5–4
R S (Gold)		MOM. ON	ON	MOM. ON
		2–3 5–6	5–4–2–3	5–4–2–1
T U (Gold)		MOM. ON	ON	ON
		2–3 5–6	2–1 5–4	2–1 5–4

2

Illumination Schematics

Single-Pole Code	Two-Pole Code	Schematic ①
A	R	None
C	S	
D	T	
E	U	
F	V	
G	W	
H	Y	
J	3	
K	4	

Illumination Code	Schematic ①
9	

Note

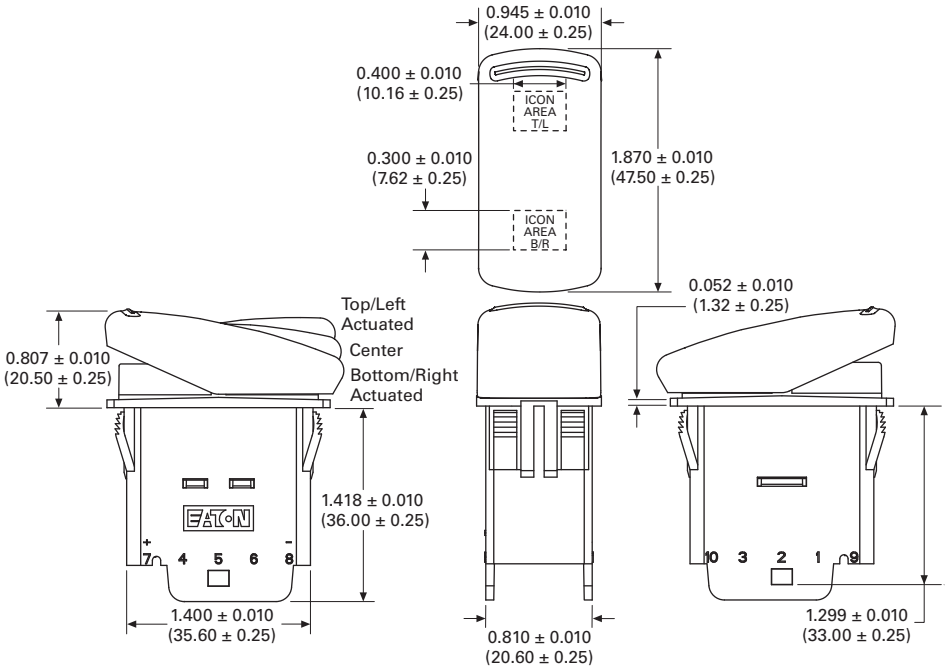
① LED for terminals 7–9 is at top/left side of switch. LED for terminals 8–10 is at bottom/right of switch.

Dimensions

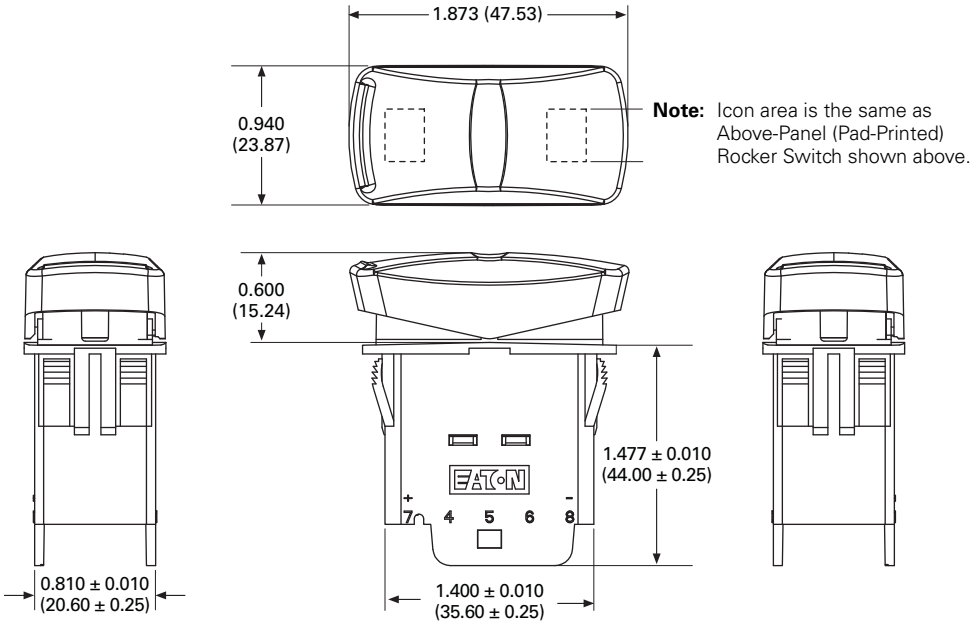
Above-Panel Rocker

Approximate Dimensions in Inches (mm)

Above-Panel (Pad-Printed) Rocker Switch



Above-Panel Decorative (Laser-Etched) Rocker Switch



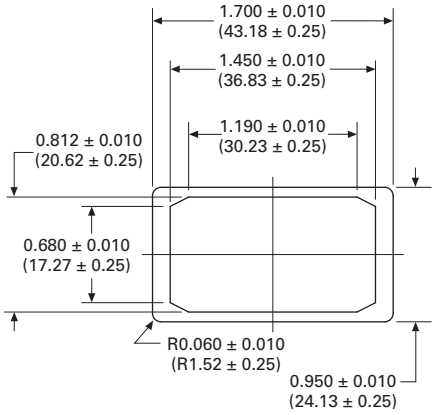
Note: Icon area is the same as Above-Panel (Pad-Printed) Rocker Switch shown above.

Above-Panel Rocker

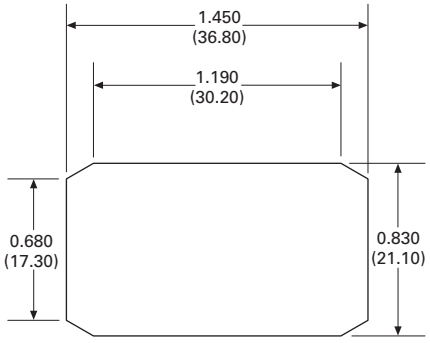
Approximate Dimensions in Inches (mm)

Panel Seal Gasket (Above Only)

Catalog Number 32-2245



Panel Opening (Above and Below)



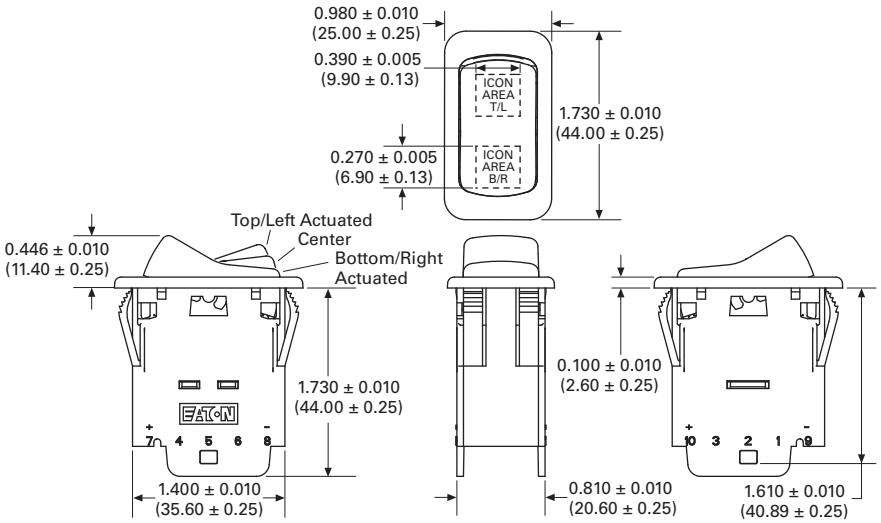
Note: Recommended panel thickness 0.039–0.157 in (1.00–4.00 mm). Best results obtained between 0.059 and 0.118 in (1.50 and 3.00 mm).

Below-Panel Rocker

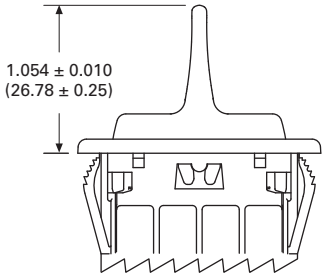
Approximate Dimensions in Inches (mm)

2

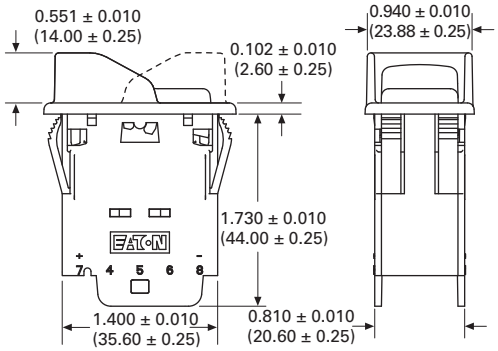
Below-Panel Rocker Switch with Actuator



Panel Actuator (Below-Panel Only)



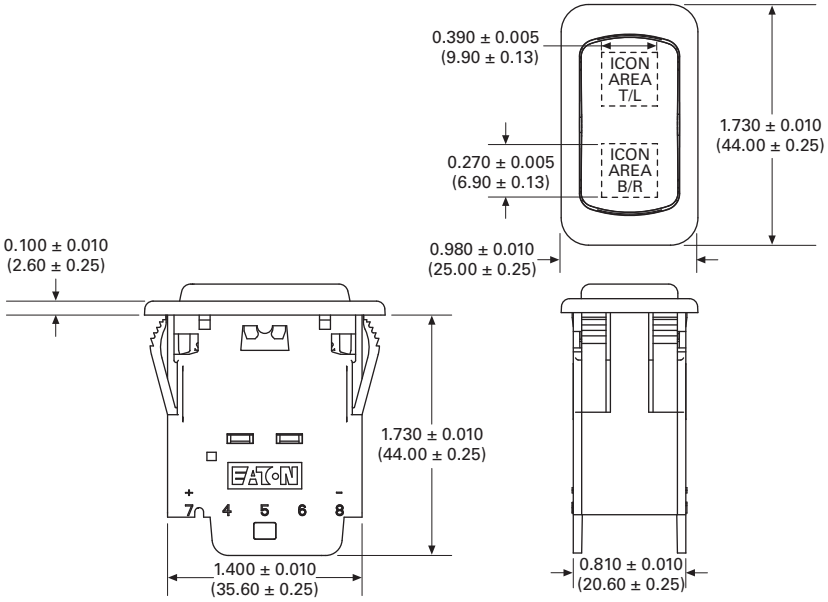
Panel Guard (Below-Panel Only)



Below-Panel Rocker

Approximate Dimensions in Inches (mm)

Indicator (Below-Panel Only)



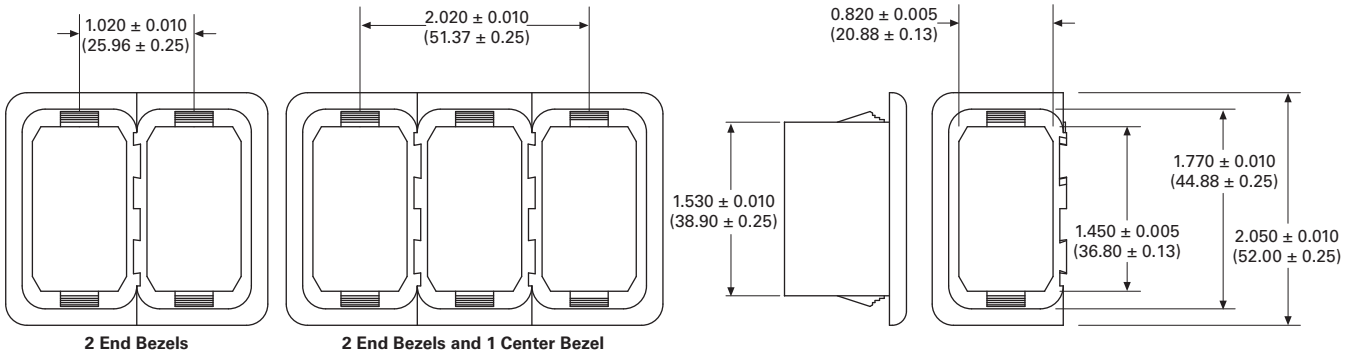
Accessories

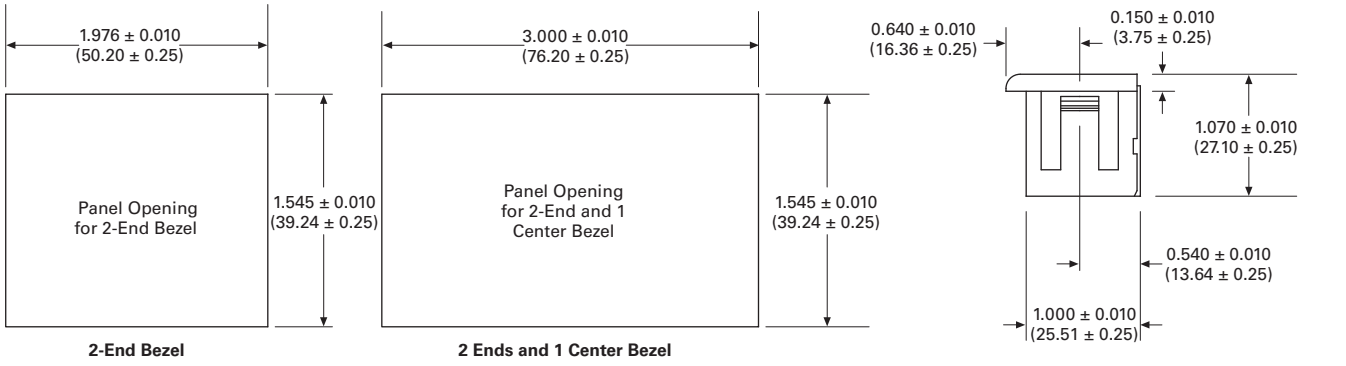
Approximate Dimensions in Inches (mm)

2

Gang Mount System

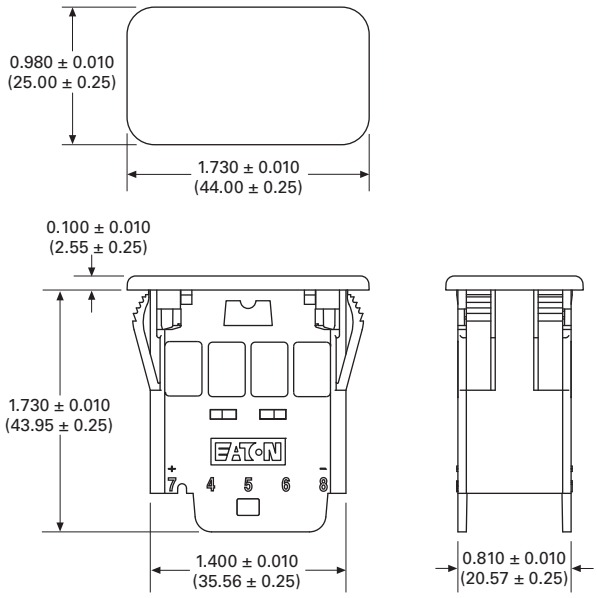
End Bezel Catalog Number 17-22146
Center Bezel Catalog Number 17-22152





Panel Plug

Catalog Number 17-22145



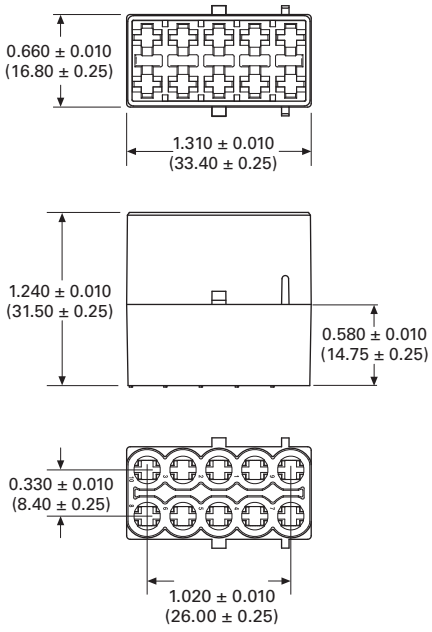
Connector

Catalog Number 25-13936

AMP Terminal Catalog Numbers:
927766-3 (14–16 gauge)
927770-3 (18–20 gauge)

AMP Wire Seal Catalog Numbers:
828905-1 (14–16 gauge)
828904-1 (18–20 gauge)

AMP Sealing Plug Catalog Number:
828922-1



Dual Motion Safety Switch

Contents

Description	*Page*
Dual Motion Safety Switches	
Catalog Number Selection	**V11-T2-44**
Dimensions	**V11-T2-44**

Product Description

Eaton's Vehicle Control business offers these new dual motion safety switches to prevent accidental actuation and protect operator personnel and equipment.

These rockers are available in two standard circuit options: OFF (locked)—None—ON and ON (locked)—None—ON. The locked safety feature requires two motions from the operator to place the actuator in the unlocked position. In the locked position, the operator must apply pressure on the actuator forward and an additional force in an upward motion for the switch to be moved to the unlocked position. Once in the unlocked position, the switch can easily be moved back into the locked position.

Application Description

- Farming equipment
- Fire trucks and safety vehicles
- Lawn and garden equipment
- Large transportation buses
- Industrial and commercial equipment

Features and Benefits

Dual motion safety switches are recommended up to 15A at 28 Vdc. An added benefit is its IP54 seal level. They can be used in tough environments where there may be exposure to small dust particles or water splashing against the enclosure from any direction. For available higher ratings or additional customizable circuits, please contact your local Eaton Sales Representative.

Options

There are many options to choose when building the right switch for your application. Termination types to choose from include screw type, solder lug and 0.250-inch spade terminals. Actuators are available in four standard colors with an appealing matte finish. Choose from black, red, white or yellow. Eaton also offers standard and customizable legend pad printing options on top of the actuator. There is even an option for arrows to be pad printed on the sides of the rocker to indicate the correct forward motion.

For added convenience, the bezel is designed to allow an easy snap-in switch mount into various panel thicknesses. The actuators even have ergonomic grooves to help provide the operator a firm grip when moving the actuator.

Standards and Certifications

- UL/CSA Recognition at 15A, 125 Vac; 10A, 250 Vac; 3/4 hp, 250 Vac
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Catalog Number Selection

8179K21Z T 51 AA A Y

Poles and Throws	Circuit with Rocker In …			Base Part Number
	Position A	Center Position	Position B	
2PST	OFF (lock)	None	ON	**8179K21Z**
2PDT	ON (lock)	None	ON	**8179K22Z**

Rocker Color
- **Y** = Black
- **T** = Red
- **M** = White
- **E** = Yellow

Termination Type
- **50** = Screw type
- **51** = Solder lug
- **52** = Quick connect (0.250 in spade)

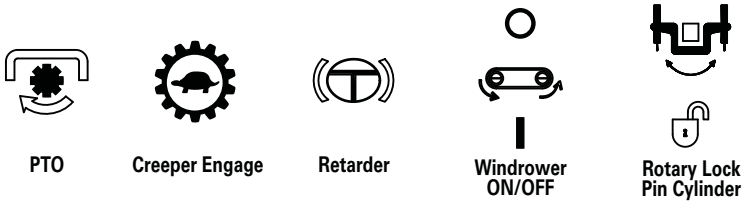
Top Pad Print ①
- **XX** = None
- **AA** = PTO
- **AB** = Creeper engage
- **AC** = Retarder
- **AD** = Windrower ON/OFF
- **AE** = Rotary lock pin cylinder

Icon Orientation
- **A** = Standard
- **B** = 90° clockwise
- **C** = 180° clockwise
- **D** = 270° counterclockwise
- **X** = None

Side Arrow Pad Prints
- **X** = None
- **Y** = Both sides

Available Switch Pad Prints

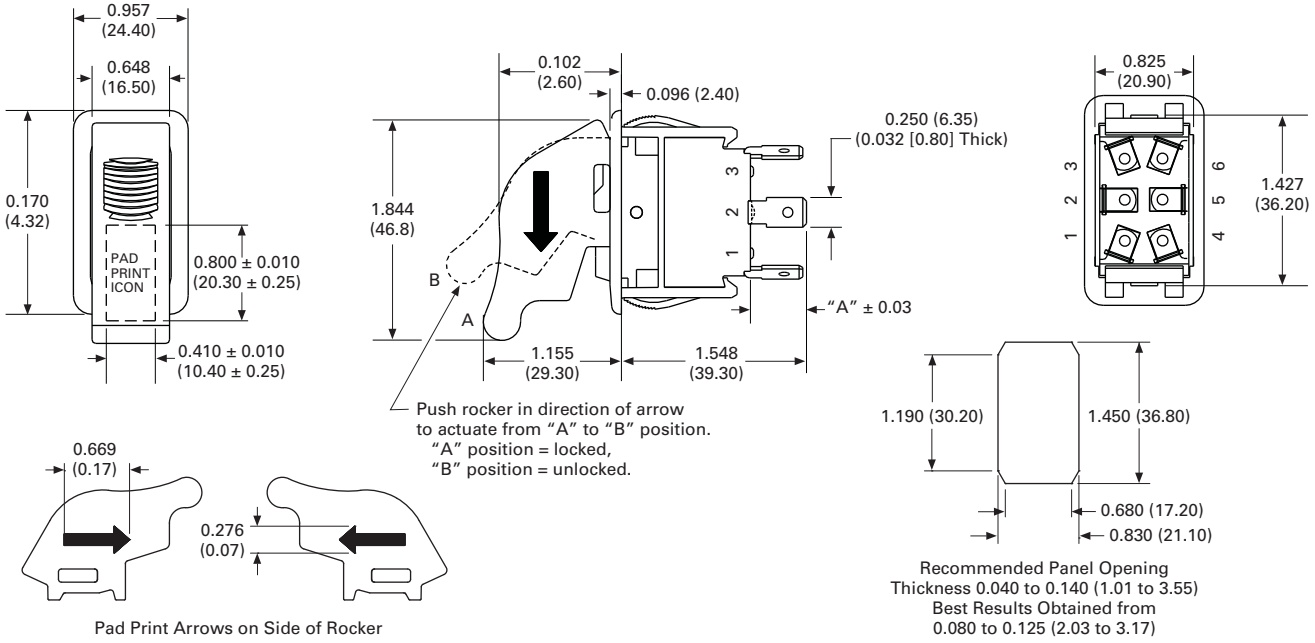
Prints ②



Dimensions

Approximate Dimensions in Inches (mm)

Dual Motion Safety Switch



Notes

① Black pad print color for white and yellow rockers. White pad print color for red and black rockers.

② Contact your local Eaton Sales Representative for more available pad print options.

1500/2500 Series

Contents

Description	*Page*
1500/2500—Midsize AC Rated	
Midsize Non-Illuminated and Illuminated	**V11-T2-46**
Hi-Lite Rocker with High Inrush	**V11-T2-47**
Technical Data and Specifications	**V11-T2-48**
Dimensions	**V11-T2-48**

Product Description

Eaton's 1500/2500 series rocker switch offers a designer touch that will enhance any product line.

Ideal applications include appliances, electronic instrumentation, data processing, communications and medical and office equipment. Custom legends are available on the switch actuator and bezel.

Options

High Inrush Option

The 1500H/2500H is designed to handle high inrush currents up to 100A peak inrush for 10 milliseconds.

Hi-Lite Rocker with High Inrush Option

This two-color rocker version brightly indicates the ON position. This version spares the expense of more costly illuminated switches and is available with the high inrush option.

Standards and Certifications

Note: See Catalog Number Selection for more detail.

International Approvals

- UL Recognized
- CSA Certified
- ENEC
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Midsize Non-Illuminated and Illuminated

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Midsize Non-Illuminated

Example: **1500** → **2 1 E 038**

Code letters and/or numbers. Add to base circuit number.

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ① Position	Base Circuit Number ②	Circuit Number ③
UL/CSA: 15A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(4)A 250V	1PST	ON	NONE	OFF	**1500**	1
		MOM. ON	NONE	OFF	**1501**	3
		ON	NONE	MOM. OFF	**1505**	4
	1PDT	ON	NONE	ON	**1502**	5
		ON	NONE	MOM. ON	**1503**	7
UL/CSA: 15A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	ON	OFF	ON	**1504**	6
UL/CSA: 10A 125 Vac, 10A 250 Vac, 10A 28Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	MOM. ON	OFF	MOM. ON	**1506**	9
		MOM. ON	OFF	ON	**1507**	8
UL/CSA: 15A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(4)A 250V	2PST	ON	NONE	OFF	**2500**	10
		MOM. ON	NONE	OFF	**2501**	11
		ON	NONE	MOM. OFF	**2505**	12
	2PDT	ON	NONE	ON	**2502**	13
		ON	NONE	MOM. ON	**2503**	15
UL/CSA: 15A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	2PDT	ON	OFF	ON	**2504**	14
UL/CSA: 10A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	2PDT	MOM. ON	OFF	MOM. ON	**2506**	17
		MOM. ON	OFF	ON	**2507**	16

Base and Bezel Color
- **1** = Black
- **2** = White
- **3** = Red

Rocker Color
- **1** = Black
- **2** = White
- **3** = Red

Terminal Type
- **E** = 6.3 mm tabs/0.25 in quick connect
- **B** = Solder lugs

Note: B style terminal not offered for 1506 Series.

Legend Type (Optional)
- **038** = ON/OFF

See Most Popular Legends table on **Page V11-T2-55**.

How To Order—Midsize Illuminated

Example: **2500** → **G 2 2 E 725**

Code letters and/or numbers. Add to base circuit number.

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ① Position	Base Circuit Number	Circuit Number ③
UL/CSA: 15A 125 Vac, 10A 250 Vac, 10A 28Vdc, 8A 14VT; **ENEC:** 10(4)A 250V	1PST	ON	NONE	OFF	**1500**	18
		MOM. ON	NONE	OFF	**1501**	21
	2PST	ON	NONE	OFF	**2500**	28
		MOM. ON	NONE	OFF	**2501**	30

Lens/Rocker Color
- **A** = Amber
- **G** = Green
- **R** = Red
- **W** = White (clear)

Lamp Voltage
- **0** = No lamp
- **1** = 125V neon
- **2** = 250V neon
- **4** = 6V filament ④
- **5** = 12V filament ④

Base and Bezel Color
- **1** = Black
- **2** = White
- **3** = Red

Terminal Type
- **E** = 6.3 mm tabs/0.25 in quick connect
- **B** = Solder lugs

Legend Type (Optional)
- **725** = ON/OFF

See Most Popular Legends table on **Page V11-T2-55**.

Notes

① 1500 Type—Lever depressed toward terminal #3. 2500 Type—Lever depressed toward terminals #13 and #26.

② #1500—#1507 switches are supplied in 1500 type base. #2500—#2507 switches are supplied in 2500 type base.

③ See Circuit Diagrams on **Page V11-T2-80**.

④ 6V, 12V filament lamps are not UL, CSA, or ENEC.

Hi-Lite Rocker with High Inrush

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Hi-Lite Rocker with High Inrush Option

Example: **1500H** → **1 2 4 E 038**

Rating	Poles and Throw	Circuit with Rocker in … UP Pos.	CENTER Position	DOWN ① Position	Base Circuit Number	Circuit Number ③
UL/CSA:15A 125 Vac, 10A 250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(4)A 250V	1PST	ON MOM. ON	NONE NONE	OFF OFF	**1500 _** **1501 _**	1 3
UL/CSA: 22A 125 Vac, 16A 250 Vac, 6A 125 VacL, 10A 14VT, 1 hp 125-250Vac; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1500H** ②	1

Code letters and/or numbers. Add to Base Circuit Number.

Base and Bezel Color
1 = Black
2 = White
3 = Red

Rocker Color
1 = Black
2 = White
3 = Red

Hi-Lite Color
1 = Black
2 = White
4 = Green
5 = Gray
6 = Red
7 = Yellow

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect
B = Solder lugs ④

Legend Type (Optional)
038 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

How To Order—High Inrush, Non-Illuminated

Example: **1500H** → **1 2 E 038**

Rating	Poles and Throw	Circuit with Rocker in … UP Pos.	CENTER Position	DOWN ① Position	Base Circuit Number	Circuit Number ③
UL/CSA: 22A 125 Vac, 16A 250 Vac, 6A 125 VacL, 10A 14VT, 1 hp 125-250 Vac; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1500H**	1
	2PST	ON	NONE	OFF	**2500H**	10

Code letters and/or numbers. Add to Base Circuit Number.

Base and Bezel Color
1 = Black
2 = White
3 = Red

Rocker Color
1 = Black
2 = White
3 = Red

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect

Legend Type (Optional)
038 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

How To Order—High Inrush Illuminated

Example: **2500H** → **G 2 2 E 725**

Rating	Poles and Throw	Circuit with Rocker in … UP Pos.	CENTER Position	DOWN ① Position	Base Circuit Number	Circuit Number ③
UL/CSA: 22A 125 Vac, 16A 250 Vac, 6A 125 VacL, 10A 14VT, 1 hp 125–250 Vac; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1500H**	18
	2PST	ON	NONE	OFF	**2500H**	28

Code letters and/or numbers. Add to Base Circuit Number.

Lens/Rocker Color
A = Amber
G = Green
R = Red
W = White (clear)

Lamp Voltage
0 = No lamp
1 = 125V neon
2 = 250V neon
4 = 6V filament ⑤
5 = 12V filament ⑤

Base and Bezel Color
1 = Black
2 = White
3 = Red

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect

Legend Type (Optional)
725 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

Notes

① 1500 Type—Lever depressed toward terminal #2. 1500H Type—Lever depressed toward terminal #3. 2500H Type—Lever depressed toward terminals #13 and #26.
② High inrush capabilities available only on basic catalog numbers beginning with 1500H.
③ See Circuit Diagrams on **Page V11-T2-80**.
④ Standard rating only.
⑤ 6V, 12V filament lamps are not UL, CSA, or ENEC.

Technical Data and Specifications

1500/2500—Midsize AC Rated

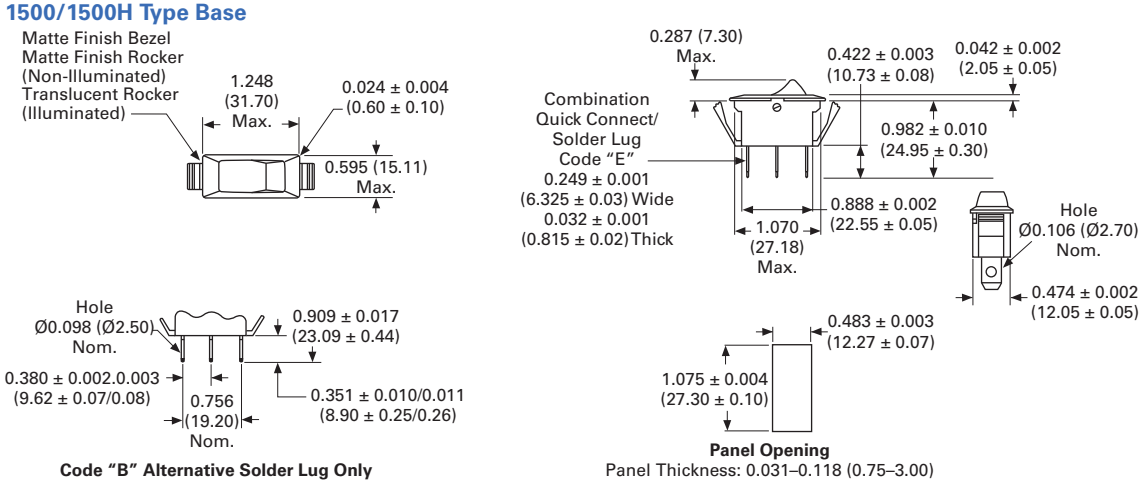
Description	Specification
Ratings	See selection tables on **Pages V11-T2-46** and **V11-T2-47**.
Seal level	IP40
Circuits	
Standard	1PST, 1PDT, 2PST, 2PDT, maintained and momentary
High inrush option	1PST, 2PST, maintained
Hi-lite option	1PST, maintained
Contact mechanism	
Standard	Slow-make/slow-break butt contact
High inrush option	Slow-make/slow-break butt contact with mechanical break
Make—High inrush option	100A peak inrush at 250 Vac for 10 ms for 10,000 cycles minimum
Break—High inrush option	16A, 250 Vac for 10,000 cycles minimum
Contact material	Silver inlay over copper
Contact resistance	10M ohms max. at 1A, 4 Vdc

Description	Specification
Mechanical life	50,000 cycles minimum
Insulation resistance	50M ohms minimum
Dielectric withstand	1000V rms minimum
Terminal types	
Standard	6.3 mm Tabs/0.250 in Quick Connect
Optional	Solder lug
Termination material	
Common (center)	Copper fine silver-plated
End	Copper
Lamp	Brass
Mounting	See dimensions below
Operating temperature range	32° to 185°F (0° to 85°C)

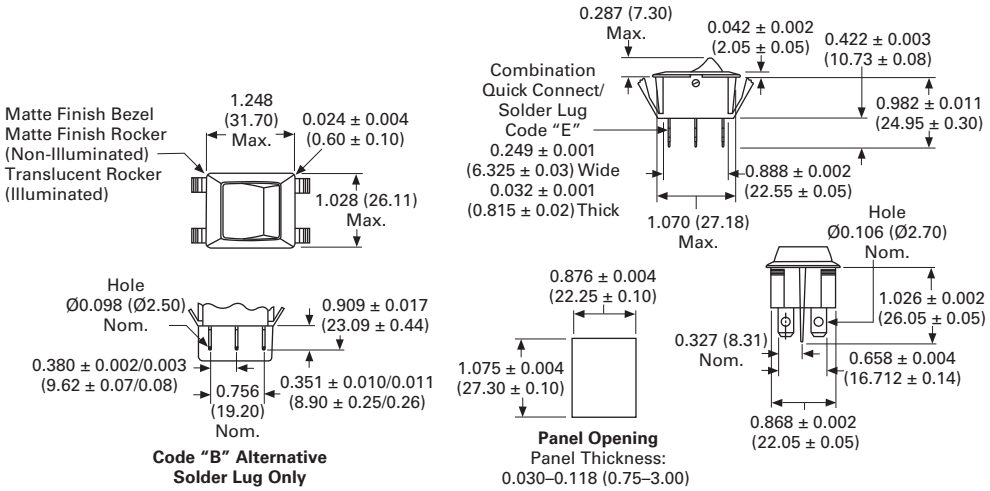
Dimensions

Approximate Dimensions in Inches (mm)

1500/1500H Type Base



2500/2500H Type Base



1600/2600 Series

Contents

Description	*Page*
1600/2600—Midsize AC Only	
Non-Illuminated Rocker	**V11-T2-50**
Illuminated Rocker	**V11-T2-51**
Splashguard	**V11-T2-52**
High Inrush Rockers	**V11-T2-53**
Technical Data and Specifications	**V11-T2-54**
Dimensions	**V11-T2-54**
Accessories	**V11-T2-55**
Legends	**V11-T2-55**

Product Description

Eaton's 1600/2600 series of midsize snap-in rocker and paddle switches have worldwide approvals at up to 16A, 250 Vac. One switch can be used for both domestic and foreign markets.

Ideal applications include appliances, electronic instrumentation, data processing, communications, medical equipment, office equipment and many more. A wide circuit variety is offered in a choice of standard and custom colors for illuminated and non-illuminated versions. Custom legends are available on the switch lever and bezel. High inrush and splashguard are also available.

Options

High Inrush Option

The 1600H/2600H is designed to handle high inrush currents up to 100A peak inrush for 10 milliseconds.

Splashguard Option

This version features a uniquely designed seal that resists moisture and water, making it ideally suited for marine, RV and food processing applications. The oversized nylon lever with smooth, matte finish features a convenient thumb depression to ensure effortless touch control. Two-pole switches feature both a thumb depression and a convex curve. See **Page V11-T2-52**.

Standards and Certifications

Note: See Catalog Number Selection for more detail.

International Approvals

- UL Recognized
- CSA Certified ①
- ENEC
- RoHS Compliant ②

Notes

① Splashguard option is cRU marked only.
② Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Non-Illuminated Rocker

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Non-Illuminated Rocker

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ② Position	Base Circuit Number Rocker	Paddle ①	Circuit Number ③
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1600**	**P1600**	1
		MOM. ON	NONE	OFF	**1601**	**P1601**	3
		ON	NONE	MOM. OFF	**1605**	**P1605**	4
	1PDT	ON	NONE	ON	**1602**	**P1602**	5
		ON	NONE	MOM. ON	**1603**	**P1603**	7
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	ON	OFF	ON	**1604**	**P1604**	6
UL/CSA: 10A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	MOM. ON	OFF	MOM. ON	**1606**	**P1606**	9
		MOM. ON	OFF	ON	**1607**	**P1607**	8
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 16(4)A 250V	2PST	ON	NONE	OFF	**2600**	**P2600**	10
		MOM. ON	NONE	OFF	**2601**	**P2601**	11
		ON	NONE	MOM. OFF	**2605**	**P2605**	12
	2PDT	ON	NONE	ON	**2602**	**P2602**	13
		ON	NONE	MOM. ON	**2603**	**P2603**	15
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	2PDT	ON	OFF	ON	**2604**	**P2604**	14
UL/CSA: 10A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	2PDT	MOM. ON	OFF	MOM. ON	**2606**	**P2606**	17
		MOM. ON	OFF	ON	**2607**	**P2607**	16

Example: **1600** → **M 2 1 E 038**

Code letters and/or numbers. Add to base circuit number.

Finish ④
Blank = Standard
M = Matte

Base and Bezel Color
1 = Black
2 = White
3 = Red

Rocker/Paddle Color
1 = Black
2 = White
3 = Red

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect
B = Solder lugs

Legend Type (Optional)
038 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

Notes

① Paddles are UL, CSA only.

② 1600 Type—Lever depressed toward terminal #3.
2600 Type—Lever depressed toward terminals #13 and #26.

③ See Circuit Diagrams on **Page V11-T2-80**.

④ To order the standard, add a "dash" to the catalog number. Example: 1600–11E.

Illuminated Rocker

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Illuminated Rocker

Example: **1621 X** → **W 5 3 E 038**

X = Independent lamp

Code letters and/or numbers. Add to base circuit number.

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ① Position	Base Circuit Number ②	Circuit Number ③
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1600**	18
		MOM. ON	NONE	OFF	**1601**	21
		ON	NONE	OFF	**1620X**	20
		MOM. ON	NONE	OFF	**1621X**	④
		ON	NONE	MOM. OFF	**1625X**	④
	1PDT	ON	NONE	ON	**1622X**	④
		ON	NONE	MOM. ON	**1623X**	④
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	ON	OFF	ON	**1624X**	④
UL/CSA: 10A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 10(2)A 250V	1PDT	MOM. ON	OFF	MOM. ON	**1626X**	④
		MOM. ON	OFF	ON	**1627X**	④
UL/CSA: 16A 125–250 Vac, 10A 28 Vdc, 8A 14VT; **ENEC:** 16(4)A 250V	2PST	ON	NONE	OFF	**2600**	28
		MOM. ON	NONE	OFF	**2601**	30
		ON	NONE	MOM. OFF	**2605**	31
—	—	Indicator	—	—	**1609**	32

Lens/Rocker Color
- **A** = Amber
- **G** = Green
- **R** = Red
- **W** = White (clear)

Lamp Voltage
- **0** = No lamp
- **1** = 125V neon
- **2** = 250V neon
- **4** = 6V filament ⑤
- **5** = 12V filament ⑤

Base and Bezel Color
- **1** = Black
- **2** = White
- **3** = Red

Terminal Type
- **E** = 6.3 mm tabs/0.25 in quick connect
- **B** = Solder lugs

Legend Type (Optional)
- **038** = ON/OFF

See Most Popular Legends table on **Page V11-T2-55**.

Notes

① 1600 Type—Lever depressed toward terminal #3.
2600 Type—Lever depressed toward terminals #13 and #26.

② #1600—#1609 switches are supplied in 1600 type base.
#1620—#1627 switches are supplied in 2600 type base. (Must have an "X" code.)
#2600—#2605 switches are supplied in 2600 type base.

③ See Circuit Diagrams on **Page V11-T2-80**.

④ All independent lamps for IP switches to be assembled from terminal positions #24 and #26.

⑤ 6V, 12V filament lamps are not UL, CSA, or ENEC.

Splashguard

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Splashguard ①

Example: **B1600** → **1 2 E**

Code letters and/or numbers.
Add to base circuit number.

Rating ②	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number	Circuit Number ③
16A, 125 Vac 10A, 250 Vac	1PST	NONE NONE	OFF OFF	ON MOM. ON	B1600 B1601	1 2
	1PDT	NONE ON	ON OFF	ON ON	B1602 B1604	5 6
10A, 125 Vac 10A, 250 Vac	1PDT	MOM. ON MOM. ON	OFF OFF	MOM. ON ON	B1606 B1607	9 8
16A, 125 Vac 10A, 250 Vac	2PST	NONE NONE	OFF OFF	ON MOM. ON	B2600 B2601	10 11
16A, 125 Vac 10A, 250 Vac	2PDT	NONE ON	ON OFF	ON ON	B2602 B2604	13 14
10A, 125 Vac 10A, 250 Vac	2PDT	MOM. ON MOM. ON	OFF OFF	MOM. ON ON	B2606 B2607	17 16

Base Color
1 = Black

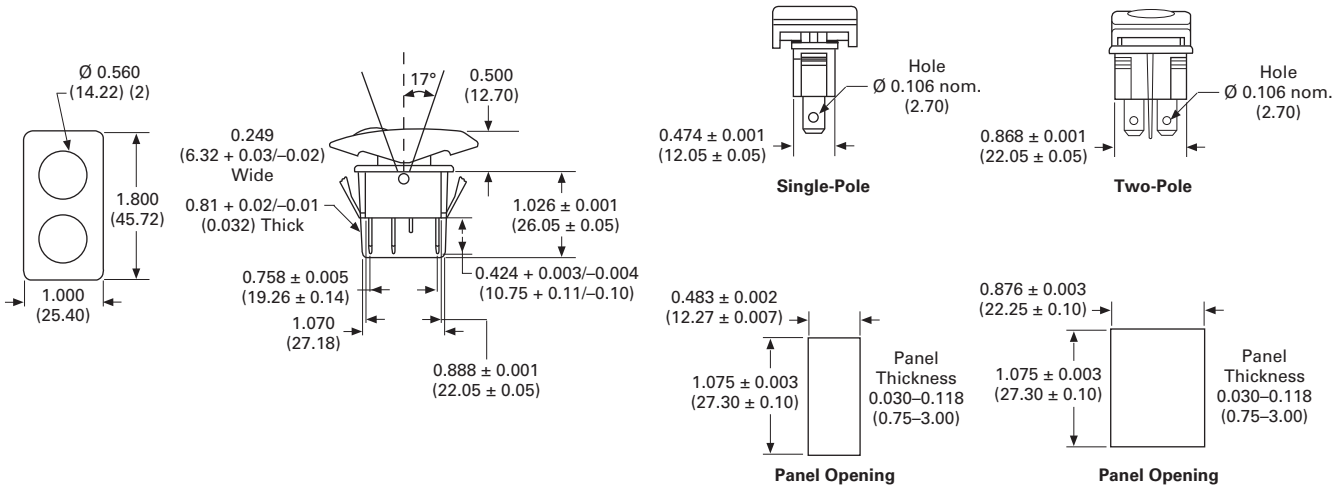
Rocker Color
1 = Black
2 = White
3 = Red
4 = Green
5 = Gray

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect

Dimensions

Approximate Dimensions in Inches (mm)

Splashguard



Notes

① Splashguard is CUR marked, but does not have ENEC approval.
② All circuits also recommended 10A, 28 Vdc.
③ See Circuit Diagrams on **Page V11-T2-80**.

High Inrush Rockers

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Non-Illuminated High Inrush Rockers

Example: **1600H** → **M 2 1 E 038**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ② Position	Base Circuit Number	Circuit Number ⑤
UL/CSA: ① 22A 125 Vac, 16A 250 Vac, 6A 125 VacL, 10A 14VT, 1 hp 125–250 Vac; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1600H**	1
		ON	NONE	OFF	**1620H** ③	2
	2PST	ON	NONE	OFF	**2600H**	10

Code letters and/or numbers. Add to base circuit number.

Finish ④
Blank = Standard
M = Matte

Base and Bezel Color
1 = Black
2 = White
3 = Red

Rocker Color
1 = Black
2 = White
3 = Red

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect

Legend Type (Optional)
038 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

How To Order—Illuminated High Inrush Rockers

Example: **1600H** → **R 2 1 E 038**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN ② Position	Base Circuit Number	Circuit Number ⑤
UL/CSA: ① 22A 125 Vac, 16A 250 Vac, 6A 125 VacL, 10A 14VT, 1 hp 125–250 Vac; **ENEC:** 16(4)A 250V	1PST	ON	NONE	OFF	**1600H**	18
		ON	NONE	OFF	**1620HX** ⑥	19
	2PST	ON	NONE	OFF	**2600H**	28
—	—	Indicator	Indicator	—	**1609**	32

Code letters and/or numbers. Add to base circuit number.

Lens/Rocker Color
A = Amber
G = Green
R = Red
W = White (clear)

Lamp Voltage
0 = No lamp
1 = 125V neon
2 = 250V neon
4 = 6V filament ⑧
5 = 12V filament ⑧
6 = 24V filament ⑧

Base and Bezel Color
1 = Black
2 = White
3 = Red

Terminal Type
E = 6.3 mm tabs/0.25 in quick connect

Legend Type (Optional)
038 = ON/OFF
See Most Popular Legends table on **Page V11-T2-55**.

Notes

① UL, CSA: 1 hp at 125V or 250 Vac; 6A, 125 Vac (L) rating; 10A, 14 Vdc. Marked on request only.
② 1600H Type—Rocker depressed toward terminal #2.
2600H Type—Rocker depressed toward terminals #13 and #26.
③ 1620H switch is supplied in 2600H base.
④ No code required.
⑤ See Circuit Diagrams on **Page V11-T2-80**.
⑥ 1620H switch is supplied in 2600H type base. (Must have "X" code.)
⑦ 1600H Type—Rocker depressed toward terminal #3.
1620H Type—Rocker depressed toward terminals #13 and #26.
2600H Type—Rocker depressed toward terminals #13 and #26.
⑧ 6V, 12V, 24V filament lamps are not UL, CSA, or ENEC.

Technical Data and Specifications

1600/2600—Midsize AC Rated

2

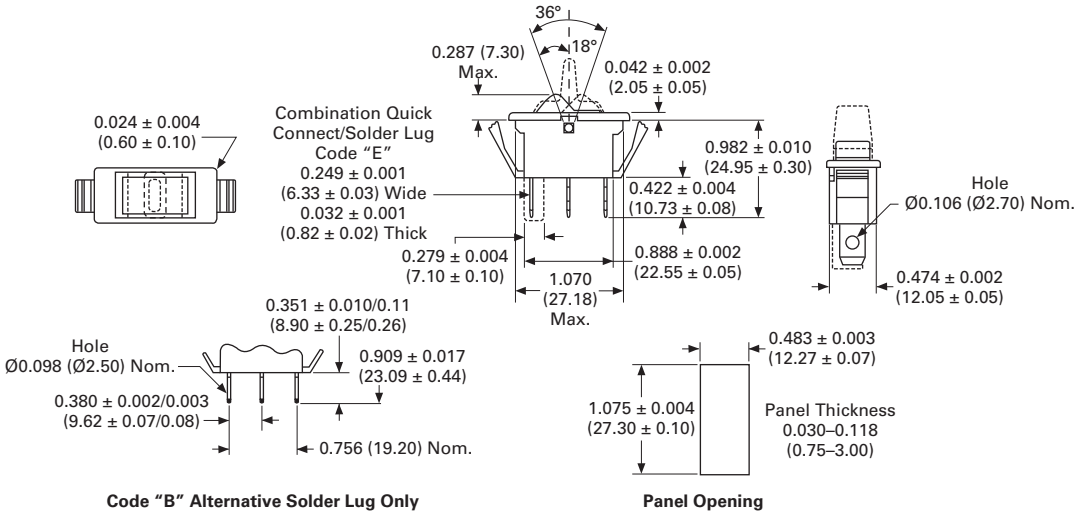
Description	Specification
Ratings	See selection tables on **Pages V11-T2-50** to **V11-T2-53**.
Circuits	
Standard	1PST, 1PDT, 2PST, 2PDT maintained and momentary
High inrush option	1PST, 2PST maintained
Contact mechanism	
Standard	Slow-make/slow-break butt contact
High inrush option	Slow-make/slow-break butt contact with mechanical break
Make—High inrush option	100A, 250 Vac for 10 ms for 10,000 cycles min.
Break—High inrush option	16A, 250 Vac for 10,000 cycles min.
Contact material	Silver inlay over copper
Contact resistance	10M ohms max. at 1A, 4 Vdc
Mechanical life	50,000 cycles minimum

Description	Specification
Insulation resistance	100M ohms minimum
Dielectric withstand	1000V rms minimum
Terminal types	
Standard	6.3 mm tabs/0.250 in quick connect
Optional	Solder lug
Termination material	
Common (center)	Copper fine silver-plated
End	Copper
Lamp	Brass
Mounting	See dimensions below
Operating temperature range	32° to 185°F (0° to 85°C)

Dimensions

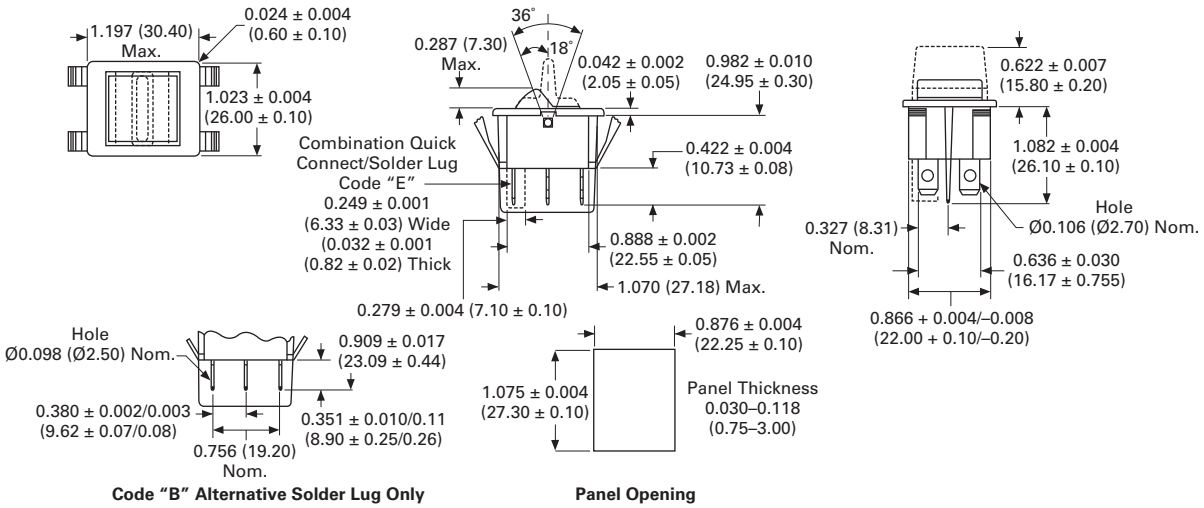
Approximate Dimensions in Inches (mm)

1600/1600H Type Base



Code "B" Alternative Solder Lug Only **Panel Opening**

2600/2600H Type Base



Code "B" Alternative Solder Lug Only **Panel Opening**

Accessories

Panel Cutout Fillers

If panel cutout fillers are required in anticipation of future rocker or paddle switch installation, order Catalog Number 1609DUM.

Specify color of base and filler portion by using the standard two-digit color code (base and lever) for non-illuminated switches.

Example: 1609DUM11

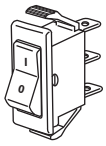
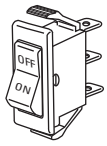
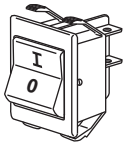
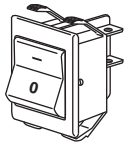
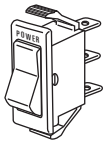
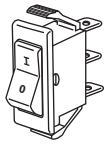
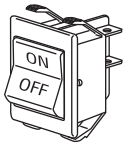
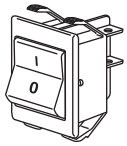
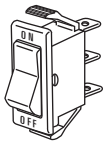
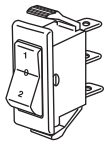
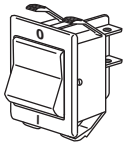
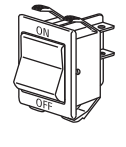
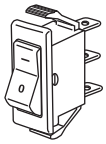
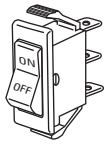
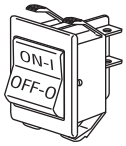
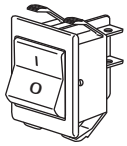
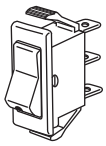
Legends

How To Order—Legends

To order a rocker with a legend marking, add the three-character code to the end of the catalog number. Example: 1500-21E becomes 1500-21E038.

Legends are for 1500/2500 and 1600/2600 only.

Most Popular Legends ①

Legend	Code	Legend	Code	Legend	Code	Legend	Code
	014		653		714		735
	023		656		725		746
	038		657		730		752
	039		671		734		760
	630						

Note

① For additional legend options, contact your local Eaton Sales Representative.

Rockette Series

Contents

Description	*Page*
Rockette—General Purpose AC Rated	
Standard Rockette Switches	**V11-T2-57**
Sealed Rockette Switches	**V11-T2-58**
8058 Series Sealed Rockette Switches	**V11-T2-59**
Technical Data and Specifications	**V11-T2-60**
Dimensions	**V11-T2-60**

Product Description

These rocker switches offer the widest selection of features available, providing the design flexibility needed to fill the requirements of a variety of applications. They are available in two versions: standard and sealed.

The Sealed Rockette features a silicone rubber seal that protects contacts and mechanisms. All switches resist contaminants such as sand, dust and moisture with both a base-to-frame seal and an actuator seal. Non-illuminated and illuminated versions are available. For Sealed Rockette selection, see table on **Page V11-T2-58**.

Features and Benefits

- Voltages
  - 110 Vac neon
  - 14 Vdc and 28 Vdc

On the illuminated version, the lamp is wired to operate in conjunction with the switch on single-throw circuit; on double-throw circuits, the lamp is independent of the switch

- Mounting

Flush (two screws), sub-panel and snap-in mounting

- Snap-in Mounting

Convenient front panel or sub-panel snap-in mounting

Available in single- and two-pole non-illuminated or in single-pole illuminated Rockette switches. Contact your local Eaton Sales Representative for three- and four-pole circuits

Unless otherwise noted, all switches with snap-in mounting are UL Recognized and CSA Certified

Options

Standard and Sealed

- Additional colors of rockers and bezels are available
- Hot stamped or pad printed legends on rocker and bezel
- Paddle actuators
- Single rocker operator on two- and three-pole circuits
- Dry circuits capabilities
- Special ratings
- Reversing jumpers
- Dead back cover (two-pole base) with wire leads
- Special circuits
- Printed circuit terminals and other terminal types
- Metal snap-in bezels
- Foam dust seal

Sealed Only

- Special voltage bulbs
- Industry standard connector available
- Two-pole illuminated circuit

Standards and Certifications

- UL Recognized
- CSA Certified
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Standard Rockette Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

2

Catalog Number Selection

How To Order—Standard Rockette Switches

Example: **8132K21** → **E 6 T 50**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number ②	Circuit Number ④
6A, 125 Vac 3A, 250 Vac	2PST	ON	NONE	OFF	**8132K21** ③	C
	2PDT	ON ON MOM. ON MOM. ON	OFF NONE OFF OFF	ON ON MOM. ON ON	**8132K20** ③ **8132K22** ③ **8138K20** **8138K30**	D
15A, 125 Vac 10A, 250 Vac 3/4 hp, 250 Vac	2PST	ON MOM. ON	NONE NONE	OFF OFF	**8142K21** **8147K21**	C
	2PDT	ON ON MOM. ON MOM. ON	OFF NONE OFF OFF	ON ON MOM. ON ON	**8142K20** **8142K22** **8148K20** **8148K30**	D
1000W, 125 Vac 10A, 250 Vac	2PST	ON	NONE	OFF	**8150K21**	C
20A, 250 Vac	2PST	ON	NONE	OFF	**8155K21**	C
	2PDT	ON ON	OFF NONE	ON ON	**8155K20** **8155K22**	D
6A, 125 Vac 3A, 250 Vac	4PDT	ON	OFF	ON	**8130K20** ③	F
15A, 125 Vac 10A, 250 Vac ① 3/4 hp, 250 Vac	4PST	ON	NONE	OFF	**8140K21**	E
	4PDT	ON ON	OFF NONE	ON ON	**8140K20** **8140K22**	F

Code letters and/or numbers.
Add to base circuit number.

Mounting Frame ⑤

All Except 8130K20, 8140K20, 8140K21, 8140K22

- **E** = Mounting, 2-pole
- **F** = Mounting, 2-pole
- **G** = Mounting, 2-pole
- **W** = Snap-in
- **X** = Snap-in
- **Y** = Snap-in
- **Z** = Snap-in

8130K20, 8140K20, 8140K21, 8140K22

- **H** = Mounting, 4-pole

Rocker/Paddle Style ⑥

All Except 8130K20, 8140K20, 8140K21, 8140K22

- **6** = 2-pole
- **7** = 2-pole
- **20** = 2-pole ⑦
- **37** = 2-pole ⑧

8130K20, 8140K20, 8140K21, 8140K22

- **14** = 4-pole

Rocker/Paddle Color

- **M** = White
- **T** = Red
- **V** = Black

Terminal Type

- **50** = Screw
- **51** = Solder lugs
- **52** = 0.250 in spade

Notes

① These switches also have marked rating of 7A at 277 Vac and 3/4 hp at 277 Vac.
② Add code letters and numbers for mounting frame, rocker style and color and terminal construction.
③ Also rated 2A, 277 Vac; 2.5A, L125 Vac.
④ See Circuit Diagrams on **Page V11-T2-80**.
⑤ See Frame Styles on **Page V11-T2-61**.
⑥ See Rocker Styles on **Page V11-T2-63**.
⑦ Cannot be used with snap-in mounting bezel.
⑧ Recommended for use with snap-in mounting.

Sealed Rockette Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Sealed Rockette Switches, Non-Illuminated

Example: **8055K23** → **E 2 V**

Code letters and/or numbers. Add to base circuit number.

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number Terminal Type 0.250 in Spade	Solder Lugs	Screw	Circuit Number ①
15A, 125 Vac 10A, 250 Vac 3/4 hp, 250 Vac	1PST	ON	NONE	OFF	8055K23	8055K24	8055K25	A
	1PDT	ON	OFF	ON	8055K20	8055K21	8055K22	B
		ON	NONE	ON	8055K26	8055K27	8055K28	
		MOM. ON	OFF	ON	8055K29	8055K30	8055K31	
		MOM. ON	OFF	MOM. ON	8055K32	8055K33	8055K34	
	2PST	ON	NONE	OFF	8055K43	8055K44	8055K45	C
	2PDT	ON	OFF	ON	8055K40	8055K41	8055K42	D
		ON	NONE	ON	8055K46	8055K47	8055K48	
		MOM. ON	OFF	ON	8055K49	8055K50	8055K51	
		MOM. ON	OFF	MOM. ON	8055K52	8055K53	8055K54	

Mounting Frame ②
- **E** = Standard
- **F** = Standard
- **L** = Standard
- **X** = Snap-in
- **W** = Snap-in
- **Z** = Snap-in

Rocker Style ③
- **1** = Two-face serrated
- **2** = Three-face smooth
- **7** = Concave

Rocker Color
- **M** = White
- **V** = Black

How To Order—Sealed Rockette Switches, Illuminated

Example: **8057K23** → **E 1 5 V 1**

Code letters and/or numbers. Add to base circuit number.

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number Terminal Type 0.250 in Spade	Solder Lugs	Screw	Circuit Number ①
15A, 125 Vac 10A, 250 Vac	1PST	ON	NONE	OFF	8057K23	8057K24	8057K25	G
	1PDT	MOM. ON	OFF	ON	8057K29	8057K30	8057K31	H

Mounting Frame ②
- **E** = Standard
- **F** = Standard
- **L** = Standard
- **X** = Snap-in
- **W** = Snap-in
- **Z** = Snap-in

Bulb Voltage
- **1** = Neon 110V
- **3** = 14 Vdc filament
- **4** = 28 Vdc filament

Rocker Style ③
- **3** = Serrated w/1 lens
- **5** = Smooth w/1 lens
- **8** = Concave w/1 lens

Rocker Color
- **M** = White
- **V** = Black

Lens Color
- **1** = Clear
- **2** = Red
- **4** = Amber
- **5** = Blue

Notes

① See Circuit Diagrams on **Page V11-T2-80**.
② See Frame Styles on **Page V11-T2-61**.
③ See Rocker Styles on **Page V11-T2-63**.

8058 Series Sealed Rockette Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Sealed Rockette Switches, Non-Illuminated

Example: **8058K28** → **Z 7 V**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number Terminal Type 0.250 in Spade	Solder Lugs	Screw ①	Circuit Number ②
30A, 125 Vac 25A, 250 Vac 3/4 hp, 125 Vac 2 hp, 250 Vac	1PST	ON	NONE	OFF	N/A	N/A	**8058K10**	A
	1PDT	ON	OFF	ON	N/A	N/A	**8058K22**	B
	1PDT	ON	NONE	ON	N/A	N/A	**8058K28**	B
	1PDT	MOM ON	OFF	ON	N/A	N/A	**8058K31**	B
	1PDT	MOM ON	OFF	MOM ON	N/A	N/A	**8058K34**	B

Code letters and/or numbers. Add to base circuit number.

Mounting Frame ③
- **E** = Standard ears up with two tapped holes
- **F** = Standard flat with two holes
- **X** = Metal snap-in
- **Z** = Standard plastic snap-in
- **W** = Contour plastic snap-in
- **L** = Standard ears up with two holes

Rocker Style ④
- **1** = Two-face serrated
- **2** = Three-face smooth
- **7** = Concave

Rocker Color
- **M** = White
- **T** = Red
- **V** = Black

8058K22E7V

8058K10X7T

8058K28Z7V

Notes

① Supplied with terminal screws, (Cat. No. 11-8616), unassembled.
② See Circuit Diagrams on **Page V11-T2-80**.
③ See Frame Styles on **Page V11-T2-61**.
④ See Rocker Styles on **Page V11-T2-63**.

Technical Data and Specifications

Rockette—General Purpose AC Rated

Description	Specification
Ratings and circuits	See selection tables on **Pages V11-T2-57** to **V11-T2-59**. Switch ratings at 125 Vac also apply to 28 Vdc.
Contact mechanism	Slow-make/slow-break contact mechanism. Butt action contact mechanism designed specifically for use on AC and low voltage DC applications
Contact material 3–6A rated	 Movable—Silver-plated copper Stationary—Silver-plated copper
10–15A rated	Movable—Silver-plated copper with fine or coin silver contact face button Stationary—Copper with fine or coin silver contact face button
20A rated	Movable—Silver-plated copper with cad-oxide contact face button Stationary—Copper with cad-oxide contact face button

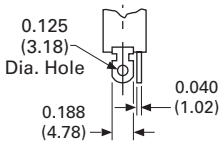
Description	Specification
1000W rated	Movable—Checon SK015B contact material welded to contactor Stationary—Copper with cad-oxide contact face button
Terminal types	Screw terminals—Brass designed to accept #6-32 x 3/16 binding head screws (Cat. No. 811-2), furnished unassembled Solder lug—0.250 in (6.35 mm) spade
Termination material	Screw and spade—Brass Solder— Tintillate-plated brass
Lamp voltages	110 Vac neon 14 Vdc and 28 Vdc
Mounting	Flush (two screws), sub-panel and snap-in mounting

Dimensions

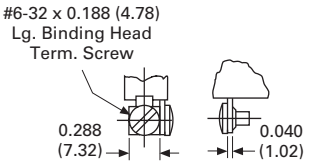
Base Standard Rockette Switch Dimensions

Approximate Dimensions in Inches (mm)

Terminals



Solder Lug Terminal
Hot Tin Dipped



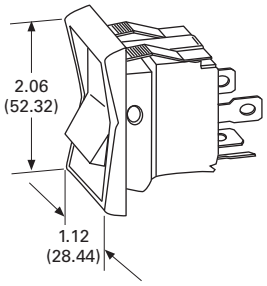
Screw Terminal

Snap-In Mounting Dimensions

Approximate Dimensions in Inches (mm)

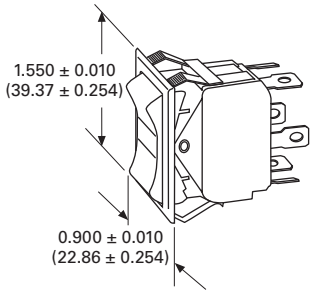
Type W

Contoured Snap-In Bezel, Two-Pole Base



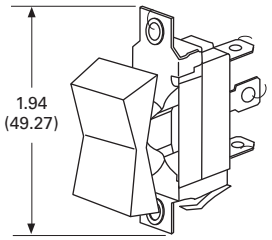
Type X

Snap-In Bezel, Single-, Two- and Four-Pole Bases



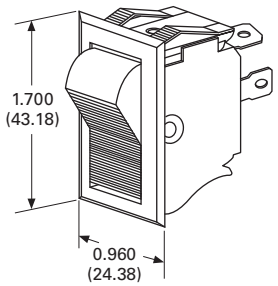
Type Y

Sub-Panel Snap-In Mounting Bezel, Single- and Two-Pole Bases

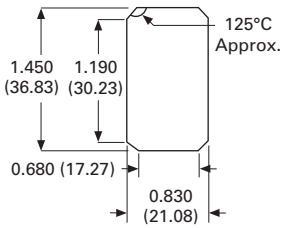


Type Z

Snap-In Mounting Bezel, Two-Pole Base Only



Panel Opening



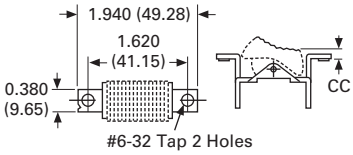
Panel Thickness
0.040–0.140 (1.02–3.56)

Frame Types and Rocker/Paddle Styles for Standing Switches—Non-Illuminated Dimensions

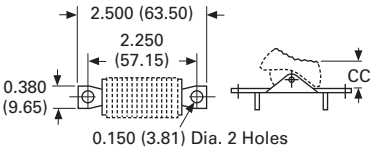
Approximate Dimensions in Inches (mm)

Two-Pole Mounting Frame Types

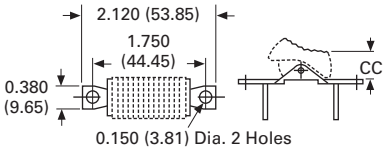
Type E



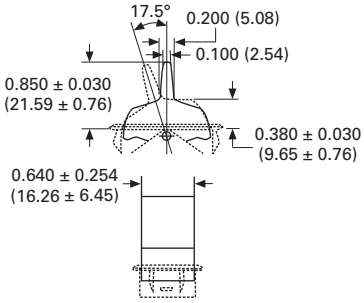
Type F



Type G



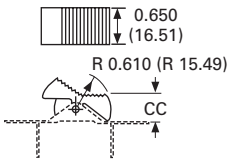
Style 37 with Type X



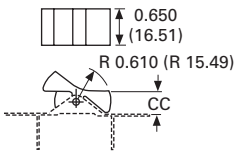
Mounting Type Recommended with This Style

Two-Pole Rocker Styles

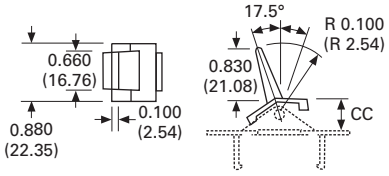
Style 6



Style 7

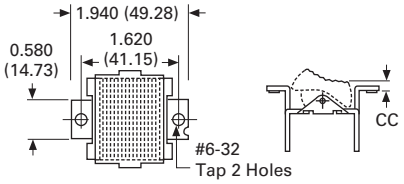


Style 20



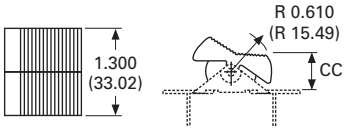
Four-Pole Mounting Frame Type

Type H



Four-Pole Rocker Styles

Style 14



Reference Dimension "CC"—Top of Frame to Bottom of Terminal

Rocker Style	Dimension in Inches (mm) Mounting Frame Type Two-Pole Type E	Type F	Type G	Recommended Panel Opening
6	0.08 (2.03)	0.42 (10.67)	0.42 (10.67)	0.69 x 1.25 (17.53 x 31.75)
7	0.08 (2.03)	0.42 (10.67)	0.42 (10.67)	0.69 x 1.25 (17.53 x 31.75)
20	N/A	0.42 (10.67)	0.42 (10.67)	N/A
37	N/A	N/A	N/A	N/A

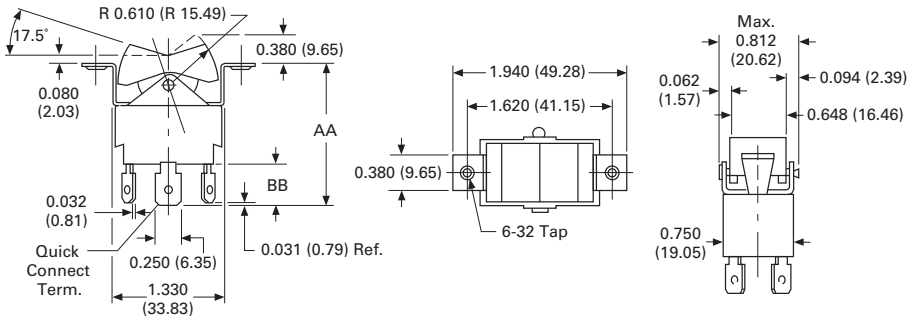
Rocker Style	Dimension in Inches (mm) Mounting Frame Type Four-Pole Type H	Recommended Panel Opening
14	0.08 (2.03)	1.34 x 1.25 (34.04 x 31.75)

Base Sealed Rockette Switch Dimensions

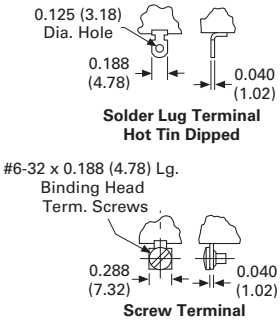
Approximate Dimensions in Inches (mm)

2

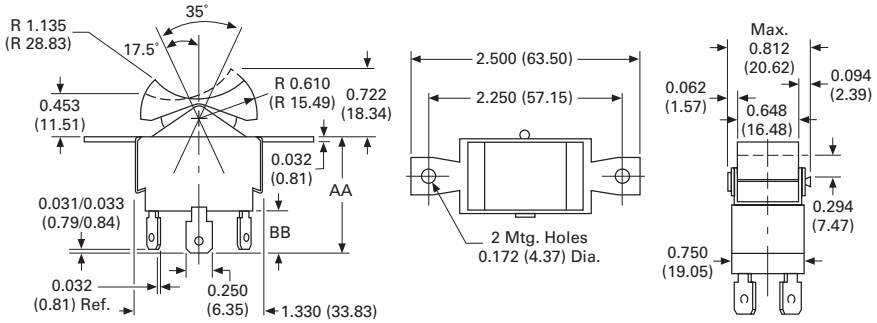
Sealed Two-Pole—Mounting Frame Type E—Rocker Style 1



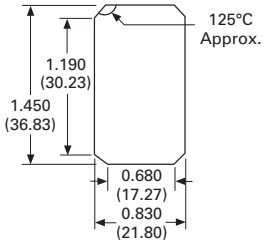
Terminals



Sealed Two-Pole—Mounting Frame Type F—Rocker Style 1



Panel Opening

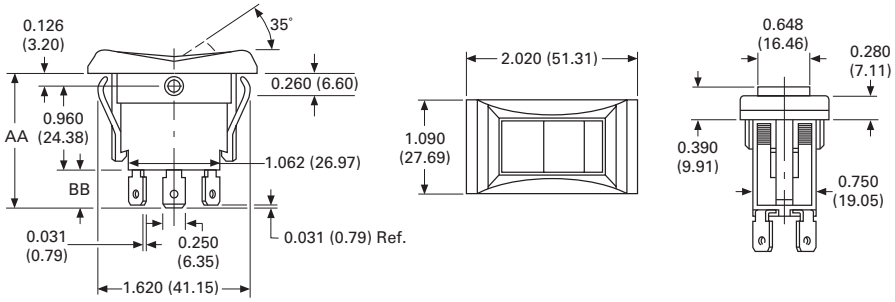


Panel Thickness
0.040–0.140 (1.02–3.56)

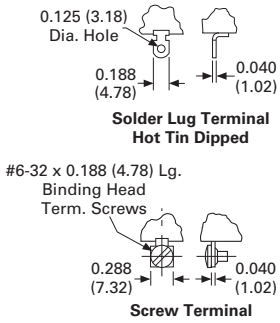
Snap-in Mounting Frame Dimensions

Approximate Dimensions in Inches (mm)

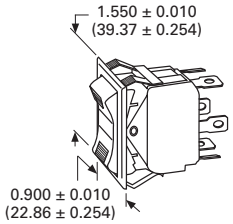
Sealed Two-Pole Switch—Mounting Frame Type W—Rocker Stye 7



Terminals

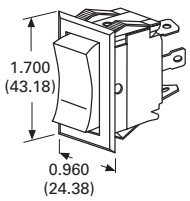


Type X



Snap-In Bezel

Type Z



Snap-In Mounting Bezel

Reference Dimensions "AA" and "BB" in Inches (mm) ①

Terminal Type	Dimension "AA" (Two-Pole) E Frame	F Frame	L Frame	W Frame	X Frame	Z Frame	Dimension "BB" All Frames
Screw	1.39 (35.33)	1.05 (26.62)	1.39 (35.33)	1.37 (34.82)	1.39 (35.34)	1.37 (34.82)	0.30 (7.62)
Solder lug	1.36 (34.57)	1.02 (25.86)	1.36 (34.57)	1.34 (34.06)	1.36 (34.51)	1.34 (34.06)	0.27 (6.86)
0.250 in spade	1.53 (38.89)	1.19 (30.18)	1.53 (38.89)	1.51 (38.38)	1.53 (38.89)	1.51 (38.38)	0.44 (11.18)
8058 Screw ②	1.509 (38.33)	1.145 (29.08)	1.509 (38.33)	1.808 (45.92)	1.627 (41.33)	1.528 (38.81)	0.460 (11.68)

Notes

① Dimension "AA"—Top of frame to bottom of terminal; "BB"—from bottom of base to bottom of terminal.

② #8-32 x 1/4 Phillips screw.

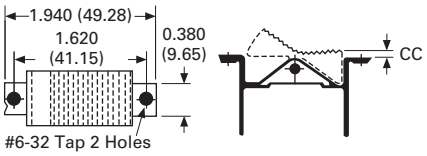
Dimensions for Frame Type and Rocker Styles—Sealed Switches

Approximate Dimensions in Inches (mm)

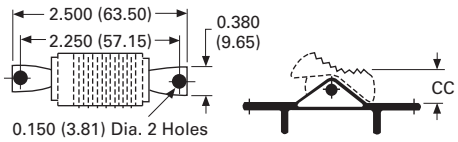
Non-Illuminated

Single- and Two-Pole Mounting Frame Types

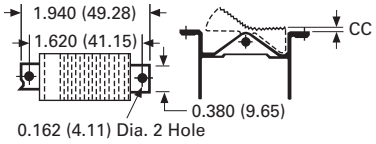
Type E



Type F

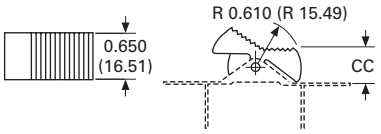


Type L

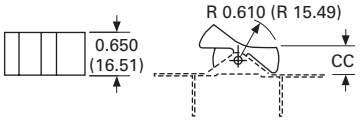


Single- and Two-Pole Rocker Styles

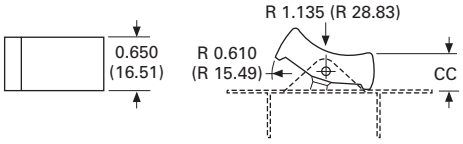
Style 1



Style 2



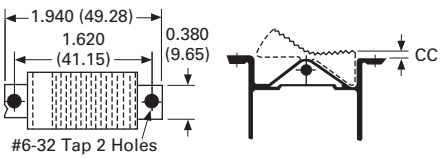
Style 7



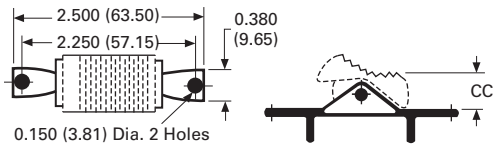
Illuminated

Single-Pole Mounting Frame Types

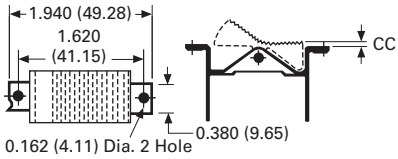
Type E



Type F

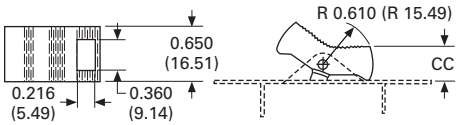


Type L

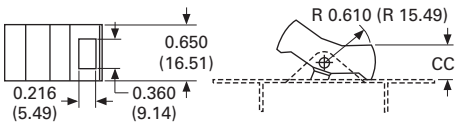


Single-Pole Rocker Styles

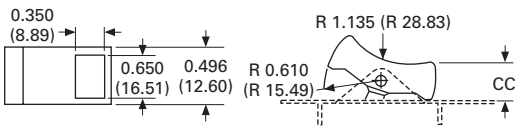
Style 3



Style 5



Style 8



Reference Dimension "CC"—Top of Frame to Rocker Face

Rocker Style	Dimension in Inches (mm) Mounting Frame Type Single- and Two-Pole (Non-Illuminated) E Frame	F Frame	L Frame	Recommended Panel Opening
1	0.08 (2.03)	0.42 (10.67)	0.08 (2.03)	0.69 x 1.25 (17.53 x 31.75)
2	0.08 (2.03)	0.42 (10.67)	0.08 (2.03)	0.69 x 1.25 (17.53 x 31.75)
7	0.11 (2.79)	0.45 (11.43)	0.11 (2.79)	0.69 x 1.25 (17.53 x 31.75)

Rocker Style	Dimension in Inches (mm) Mounting Frame Type Single- and Two-Pole (Illuminated) E Frame	F Frame	L Frame	Recommended Panel Opening
3	0.08 (2.03)	0.42 (10.67)	0.08 (2.03)	0.69 x 1.25 (17.53 x 31.75)
5	0.08 (2.03)	0.42 (10.67)	0.08 (2.03)	0.69 x 1.25 (17.53 x 31.75)
8	0.11 (2.79)	0.45 (11.43)	0.11 (2.79)	0.69 x 1.25 (17.53 x 31.75)

8006/8007 Series

Contents

Description	*Page*
8006/8007—EURO SR	
Catalog Number Selection	**V11-T2-65**
Technical Data and Specifications	**V11-T2-66**
Dimensions	**V11-T2-66**

Product Description

Field-proven in America's roughest off-road applications, the standard size EURO SR is one tough and reliable rocker switch. Available with the complete range of rugged single- and two-pole, illuminated or non-illuminated circuits.

The EURO SR Series offers snap-in mounting and can be provided with a durable silicone seal that resists dust and moisture.

All EURO SR switches are molded in an aesthetically pleasing matte finish and operate with a crisp tactile feel, allowing for easy actuation.

The EURO SR will accept loads up to 15A. Terminal numbers are stamped on base for easy identification.

Features and Benefits

- Contact Mechanism

Slow-make/slow-break contact mechanism. Butt action contact mechanism designed specifically for use on AC and low voltage DC applications.

- Rocker Material

Thermoplastic rocker actuators. Different colors are available. Rocker and bezel are a high-grade nylon supplied with matte finish.

- Lamps

Five lamp voltages—14 Vdc, 18 Vdc, 28 Vdc, 125 Vac neon and 250 Vac neon—are offered as standard. For additional lamp voltages, please contact your local Eaton Sales Representative.

- Mounting Means

Snap-in mounting with plastic bezel.

- Seal

Available in sealed and non-sealed versions. Sealed devices are furnished with silicone rubber seal, providing moisture and dust resistance with an IP67 rating.

Options

- Additional colors of rockers and bezels are available
- Special circuits
- Special ratings
- Pad-printed legends on rocker and bezel
- Special voltage bulbs
- Dry circuit capabilities
- Foam dust seal
- Reversing jumpers
- Printed circuit terminals and other terminal types
- Wire leads
- Dead back cover
- Palm guard
- Industry standard connector: 28-3426
- EURO SR panel plug: 53-3318

For information on optional features, contact your local Eaton Sales Representative.

Lens Options

- Lens Part Numbers (if ordered separately)

Green 28-5415
Amber 28-5415-2
Red. 28-5415-3
Blue 28-5415-4
White 28-5415-5

Standards and Certifications

- UL Recognized and recognized component for Canada File E2702
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

EURO SR Standard Size Euro-Style Rocker Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—EURO SR, Non-Illuminated

Example: **8006K23** → **N 1 T 1**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Terminal Type 0.250 in Spade	Solder Lugs	Screw
10A, 250 Vac 15A, 125 Vac 15A, 28 Vdc	1PST	2-3 2-3 ①	NONE	OFF	8006K23 8006K35	8006K24 8006K36	8006K25 8006K37
	1PDT	2-3 2-3 2-3 ① 2-3 ①	OFF NONE OFF OFF	2-1 2-1 2-1 2-1 ①	8006K20 8006K26 8006K29 8006K32	8006K21 8006K27 8006K30 8006K33	8006K22 8006K28 8006K31 8006K34
	2PST	2-3, 5-6 2-3, 5-6 ①	NONE	OFF	8006K43 8006K55	8006K44 8006K56	8006K45 8006K57
	2PDT	2-3, 5-6 2-3, 5-6 2-3, 5-6 ① 2-3, 5-6 ①	OFF NONE OFF OFF	2-1, 5-4 2-1, 5-4 2-1, 5-4 2-1, 5-4 ①	8006K40 8006K46 8006K49 8006K52	8006K41 8006K47 8006K50 8006K53	8006K42 8006K48 8006K51 8006K54
	2PDT ②	2-3, 5-6	5-6	OFF	8006K58	8006K59	8006K60
	2PDT ③	5-6	5-3	5-1	8006K61	8006K62	8006K63

Code letters and/or numbers. Add to base circuit number.

Mounting Frame Color /Style
- **N** = Black/standard
- **T** = Black/top half palm guard
- **B** = Black/bottom half palm guard

Rocker Style
- **1** = Two-face

Rocker Color
- **M** = White
- **T** = Red
- **V** = Black

Seal Option
- **1** = Non-sealed
- **2** = Sealed

How To Order—EURO SR, Illuminated

Example: **8007K23** → **N 4 1 3 T 2 1**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Terminal Type 0.250 in Spade	Solder Lugs	Screw
10A, 250 Vac 15A, 125 Vac 15A, 28 Vdc	1PST	OFF NONE	NONE OFF	2-1 2-1 ①	8007K23 8007K35	8007K24 8007K36	8007K25 8007K37
	1PDT ④	2-3 2-3 2-3 ① 2-3 ①	OFF NONE OFF OFF	2-1 2-1 2-1 2-1 ①	8007K20 8007K26 8007K29 8007K32	8007K21 8007K27 8007K30 8007K33	8007K22 8007K28 8007K31 8007K34
	2PST	OFF 2-3, 5-6 ①	NONE OFF	2-1, 5-4 NONE	8007K43 8007K55	8007K44 8007K56	8007K45 8007K57
	2PDT ④⑤	2-3, 5-6 2-1, 5-4 2-3, 5-6 ① 2-3, 5-6 ①	OFF NONE OFF OFF	2-1, 5-4 2-3, 5-6 2-1, 5-4 2-1, 5-4 ①	8007K40 8007K46 8007K49 8007K52	8007K41 8007K47 8007K50 8007K53	8007K42 8007K48 8007K51 8007K54

Code letters and/or numbers. Add to base circuit number.

Mounting Frame Color /Style
- **N** = Black/standard
- **T** = Black/top half palm guard
- **B** = Black/bottom half palm guard

Bulb Voltage
- **1** = 125V neon ⑦
- **2** = 250V neon ⑦
- **3** = 14 Vdc ⑧
- **4** = 28 Vdc ⑧
- **7** = 18 Vdc ⑧

Lamp Wiring
- **1** = Dependent
- **2** = Independent

Rocker Style
- **3** = Two-face w/1 lens ⑥
- **4** = Two-face w/2 lenses ④

Rocker Color
- **M** = White
- **T** = Red
- **V** = Black

Lens Color
- **1** = White
- **2** = Red
- **3** = Green
- **4** = Amber
- **5** = No lens
- **6** = Blue
- **7** = Clear

Seal Option
- **1** = Non-sealed
- **2** = Sealed

Notes

① Momentary contact.
② 3A at 250 Vac, 6A at 125 Vac.
③ 1/4 hp at 125–250 Vac.
④ All double-throw circuits, both 1PDT and 2PDT, provided with two lamps and two lenses (Rocker Style 4). When lamp is wired independent of circuit for 1PDT switches, device is supplied with lamp centered in open-pole of base.
⑤ Not standard with lamp wired independent of circuit. All 2PDT switches must be dependent on circuit and use Rocker Style 4.
⑥ Not provided standard for double-throw circuits, both 1PDT and 2PDT. Must use Rocker Style 4 for all double-throw switches.
⑦ Available on single-pole versions only.
⑧ 14 Vdc, 18 Vdc and 28 Vdc bulbs are not UL, CSA when bulb is wired dependent to switch circuit.

Technical Data and Specifications

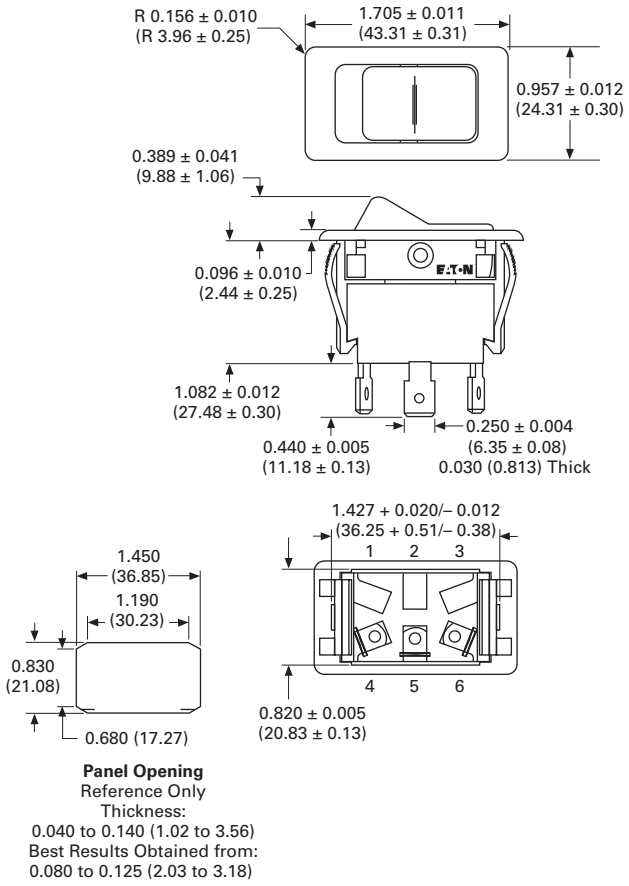
8006/8007—EURO SR

Description	Specification
Ratings	15A at 125 Vac 10A at 250 Vac 3/4 hp at 250 Vac (hp rating does not apply to lighted switches) Switch ratings at 125 Vac also apply to 28 Vdc
Circuits	1PST, 1PDT, 2PST and 2PDT Maintained and momentary action
Mechanical life	Maintained—100,000 operations, minimum Momentary—25,000 operations, minimum
Electrical life	25,000 operations minimum at full load
Terminal types	Standard 0.250 in (6.35 mm) Spade—Brass Screw—Brass (terminal screws provided unassembled) Solder—Tintillate-plated brass
Base material	Thermoset molding material
Rocker material	Thermoplastic rocker actuators
Dielectric	1000V rms, minimum
Seal level	IP67 (with optional seal)
Mounting means	Snap-in mounting with plastic bezel
Operating temperature	–40° to 185°F (–40° to 85°C)

Dimensions

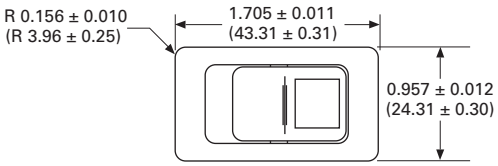
Approximate Dimensions in Inches (mm)

Non-Illuminated

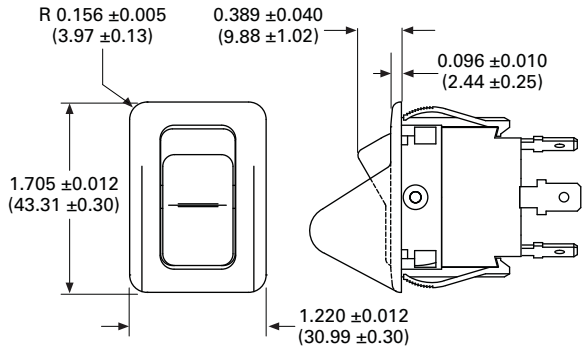


Panel Opening
Reference Only
Thickness:
0.040 to 0.140 (1.02 to 3.56)
Best Results Obtained from:
0.080 to 0.125 (2.03 to 3.18)

Illuminated



Palm Guard



8004/8005–Euro Full Size

Contents

Description	*Page*
8004/8005—Euro Full Size	
Catalog Number Selection	**V11-T2-68**
Technical Data and Specifications	**V11-T2-69**
Dimensions	**V11-T2-69**

Product Description

Eaton's 8004 and 8005 Euro-Look Series features matte finish European styling and snap-in mounting. These durable switches, field-tested in the most demanding truck and marine applications, are available with a variety of standard actuator options. Options include concave, two-face, illuminated, non-illuminated and the recessed feature, which allows placement of your label on the face of our rocker. All switches in this rugged lineup can be fitted with a silicone rubber seal to provide moisture and dust-resistance. Additionally, these switches can be gang-mounted into a single panel opening. Panel blanks are also available.

Features and Benefits

- Contact Mechanism

Slow-make/slow-break contact mechanism. Butt action contact mechanism designed specifically for use on AC and low voltage DC applications.

- Rocker Material

Custom styled, multi-colored thermoplastic rocker actuators. The rocker and bezel are supplied with a matte finish.

- Lamps

Five lamp voltages—14 Vdc, 18 Vdc, 28 Vdc, 125 Vac neon and 250 Vac neon—are offered as standard. For additional lamp voltages, please contact your local Eaton Sales Representative.

- Mounting Means

Snap-in mounting with plastic bezel.

- Seal

Available in sealed and non-sealed versions. Sealed devices are furnished with a silicone rubber seal providing moisture and dust resistance with an IP54 rating.

Options

- Additional colors of rockers and mounting bezels are available
- Special circuits
- Special ratings
- Gold contacts
- Dry circuit capabilities
- Pad-printed legends on rocker and bezel
- Special lamp voltages
- Foam dust seal
- Reversing jumpers
- Printed circuit terminals and other terminal types
- Dead back cover (two-pole base) with wire leads
- Matching indicators
- Industry standard connector: 28-3426
- Full size Euro-Look gang mounting systems
- Full size Euro-Look panel plugs: 17-19544-2

For information on optional features, contact your local Eaton Sales Representative.

Lens Options

- Lens Part Numbers (if ordered separately)

8005 Two-Face

Green	28-3425
Amber	28-3425-2
Red	28-3425-3
Blue	28-3425-4
White	28-3425-5

8005 Concave

Red	28-5148
Green	28-5148-2
Amber	28-5148-3
Blue	28-5148-4
Clear	28-5148-5

Standards and Certifications

- UL Recognized and recognized component for Canada File E2702
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

Full Size, Euro-Look Rocker Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—Full Size Euro, Non-Illuminated

Example: **8004K23** → **N 1 T 1**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Terminal Type 0.250 in Spade	Solder Lugs	Screw
10A, 250 Vac 15A, 125 Vac 15A, 28 Vdc	1PST	2-3 2-3 ①	NONE	OFF	**8004K23** **8004K35**	**8004K24** **8004K36**	**8004K25** **8004K37**
	1PDT	2-3 2-3 2-3 ① 2-3 ①	OFF NONE OFF OFF	2-1 2-1 2-1 2-1 ①	**8004K20** **8004K26** **8004K29** **8004K32**	**8004K21** **8004K27** **8004K30** **8004K33**	**8004K22** **8004K28** **8004K31** **8004K34**
	2PST	2-3, 5-6 2-3, 5-6 ①	NONE	OFF	**8004K43** **8004K55**	**8004K44** **8004K56**	**8004K45** **8004K57**
	2PDT	2-3, 5-6 2-3, 5-6 2-3, 5-6 ① 2-3, 5-6 ①	OFF NONE OFF OFF	2-1, 5-4 2-1, 5-4 2-1, 5-4 2-1, 5-4 ①	**8004K40** **8004K46** **8004K49** **8004K52**	**8004K41** **8004K47** **8004K50** **8004K53**	**8004K42** **8004K48** **8004K51** **8004K54**
	2PDT ②	2-3, 5-6	5-6	OFF	**8004K58**	**8004K59**	**8004K60**
	2PDT ③	5-6	5-3	5-1	**8004K61**	**8004K62**	**8004K63**

Code letters and/or numbers. Add to base circuit number.

Mounting Frame Color
N = Black
M = White
T = Red
G = Gray

Rocker Style
0 = Recessed
1 = Two-face
6 = Paddle
7 = Concave

Rocker Color
M = White
T = Red
V = Black
G = Gray

Seal Option
1 = Non-sealed
2 = Sealed

How To Order—Full Size Euro, Illuminated

Example: **8005K23** → **N 4 1 3 T 2 1**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Terminal Type 0.250 in Spade	Solder Lugs	Screw
10A, 250 Vac 15A, 125 Vac 15A, 28 Vdc	1PST	OFF NONE	NONE OFF	2-1 2-1 ①	**8005K23** **8005K35**	**8005K24** **8005K36**	**8005K25** **8005K37**
	1PDT ④	2-3 2-3 2-3 ① 2-3 ①	OFF NONE OFF OFF	2-1 2-1 2-1 2-1 ①	**8005K20** **8005K26** **8005K29** **8005K32**	**8005K21** **8005K27** **8005K30** **8005K33**	**8005K22** **8005K28** **8005K31** **8005K34**
	2PST	OFF 2-3, 5-6 ①	NONE OFF	2-1, 5-4 NONE	**8005K43** **8005K55**	**8005K44** **8005K56**	**8005K45** **8005K57**
	2PDT ④⑤	2-3, 5-6 2-1, 5-4 2-3, 5-6 ① 2-3, 5-6 ①	OFF NONE OFF OFF	2-1, 5-4 2-3, 5-6 2-1, 5-4 2-1, 5-4 ①	**8005K40** **8005K46** **8005K49** **8005K52**	**8005K41** **8005K47** **8005K50** **8005K53**	**8005K42** **8005K48** **8005K51** **8005K54**

Code letters and/or numbers. Add to base circuit number.

Mounting Frame Color
N = Black
M = White
T = Red
G = Gray

Bulb Voltage
1 = 125V neon ⑦
2 = 250V neon ⑦
3 = 14 Vdc ⑧
4 = 28 Vdc ⑧
7 = 18 Vdc ⑧

Lamp Wiring
1 = Dependent
2 = Independent

Rocker Style
2 = Recessed w/1 lens ⑥
3 = Two-face w/1 lens ⑥
4 = Two-face w/2 lenses ④
5 = Recessed w/2 lenses ④
8 = Concave w/1 lens ⑥
9 = Concave w/2 lenses ④

Rocker Color
M = White
T = Red
V = Black
G = Gray

Lens Color
2 = Red
3 = Green
4 = Amber
5 = No lens
6 = Blue

Seal Option
1 = Non-sealed
2 = Sealed

Notes

① Momentary contact.
② 3A at 250 Vac, 5A at 125 Vac.
③ 1/4 hp at 125–250 Vac.
④ All double-throw circuits, both 1PDT and 2PDT, provided with two lamps and two lenses (Rocker Style 4). When lamp is wired independent of circuit for 1PDT switches, device is supplied with lamp centered in open-pole of base.
⑤ Not standard available with lamp wired independent of circuit. All 2PDT switches must be dependent on circuit and use Rocker Style 4, 5 or 9.
⑥ Not provided standard for double-throw circuits, both 1PDT and 2PDT. Must use Rocker Style 4, 5 or 9 for all double-throw switches.
⑦ Available on single-pole versions only.
⑧ 14 Vdc and 28 Vdc bulbs are not UL, CSA when bulb is wired dependent to switch circuit.

Technical Data and Specifications

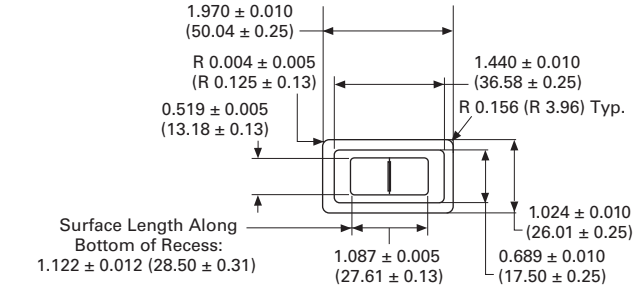
8004/8005—Euro Full Size

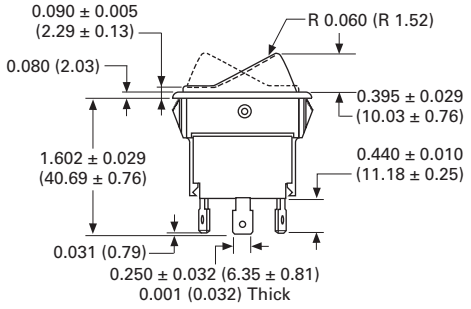
Description	Specification
Ratings	15A at 125 Vac; 10A at 250 Vac; 3/4 hp at 250 Vac (hp rating does not apply to lighted switches) Switch ratings at 125 Vac also apply to 28 Vdc
Circuits	1PST, 1PDT, 2PST and 2PDT; Maintained and momentary action
Contact material	Movable—Silver-plated copper with fine or coin silver contact face button Stationary—Copper with fine or coin silver contact face button
Mechanical life	Maintained—100,000 operations, minimum Momentary—25,000 operations, minimum
Electrical life	25,000 operations minimum at full load
Terminal types	Standard 0.250 in (6.35 mm) spade—Brass Screw—Brass #6-32 x 3/16 (terminal screws provided unassembled) Solder—Tintillate-plated brass; tintillate spade terminals
Base material	Thermoset molding material
Dielectric	1000V rms, minimum
Seal level	IP54 (with optional seal)
Mounting means	Snap-in mounting with plastic bezel

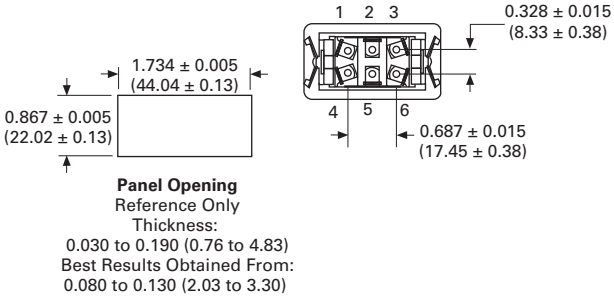
Dimensions

Approximate Dimensions in Inches (mm)

Non-Illuminated

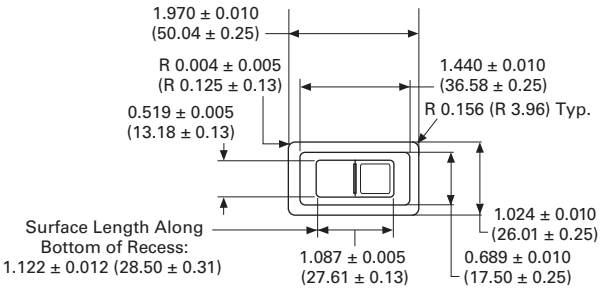


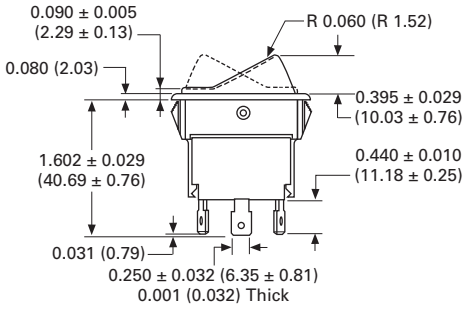


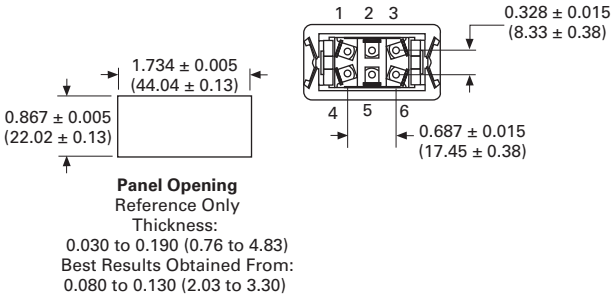


Panel Opening
Reference Only
Thickness:
0.030 to 0.190 (0.76 to 4.83)
Best Results Obtained From:
0.080 to 0.130 (2.03 to 3.30)

Illuminated







Panel Opening
Reference Only
Thickness:
0.030 to 0.190 (0.76 to 4.83)
Best Results Obtained From:
0.080 to 0.130 (2.03 to 3.30)

X Series Rockers—XR

Contents

Description	*Page*
X Series Rockers	
Catalog Number Selection	**V11-T2-71**
X Series Symbols Library	**V11-T2-72**
Technical Data and Specifications	**V11-T2-72**
Light Diagrams	**V11-T2-72**
Dimensions	**V11-T2-73**

Product Description

The Electrical Sector is pleased to offer X Series Rockers for use in outdoor applications to meet almost every market need.

These sleek style rockers are molded in a unique smooth matte finish. The bezel is also unique with a more modern rounded-rectangular design with an oval shaped rocker. X Series Rockers are available in single- and double-pole with various circuit options, LED illumination, and laser etching.

- Frames and actuator colors are black
- Switches provided with 0.025 spade quick connect terminals

Application Description

Market Applications

- Agriculture
- Bus
- Commercial
- Marine
- Specialty Vehicle
- Truck

Features and Benefits

- Seal

Standard IP56 Sealing per IES 60529.

- Illumination

Standard LED voltages offered include 14 Vdc and 125 Vac.

- Material

Frames are nylon and actuators are nylon with glass fiber with both meeting UL flame: 94HB. Terminals are silver plated brass.

- Mounting Means

Easy snap-in mounting with plastic bezel.

- Label

Eaton part number etched on switch for easy inventory management.

Options

- Panel plug: 53-3318
- Industry standard connector: 28-3426
- For information on optional features, contact your local Eaton Sales Representative.

Standards and Certifications

- UL Recognized and recognized component for Canada File E2702
- T85
- RoHS Compliant

c UL us RoHS COMPLIANT

Product Selection Guide

Seal	
Top	✔
Bottom	—
Panel	—

Actuator	
Rocker without bezel	—
Rocker with bezel	✔
Paddle	—
Snap-in lens	—
Locking	—
Label	—

Decorative	
Laser-etch	✔
Pad-print	—

Poles	
Single	✔
Double	✔
Four	—

Termination	
Spade	✔
Solder	—
Screw	—
Weld lugs	—

Illumination			
Incandescent 6 Vdc	—	Neon 110V	—
Incandescent 12 Vdc	—	Neon 125V	—
Incandescent 14 Vdc	—	Neon 250V	—
Incandescent 18 Vdc	—	14 Vdc LED	✔
Incandescent 24 Vdc	—	28 Vdc LED	—
Incandescent 28 Vdc	—	125 Vac LED	✔
		277 Vac LED	—

X Series Rockers

Catalog Number Selection

Standard rating 16A 125V, 10A 277V, 3/4 hp 277V
Also recommended for use in applications up to 21A 14 Vdc
IP56 per IES 60529

Product Selection

XR Series Rocker

X Series Rockers

Lamp Voltage	Switch Function	Light Circuit ③	Lens Color T. 1-4	T. 3-6	Switch Markings	Catalog Number
None	SPST OFF-ON	X = None	None	None	Int'l ON/OFF ④	**XRXAXXXNV1CU**
	SPST OFF-ON	X = None	None	None	ON/OFF ④	**XRXAXXXNV1DB**
14 Vdc LED	SPST OFF-ON	E =	None	Amber	None	**XR1AEX4NV1XX**
	SPST OFF-ON	E =	None	Green	None	**XR1AEX3NV1XX**
	SPST OFF-ON	E =	None	Red	None	**XR1AEX2NV1XX**
	SPDT ON-ON	G =	Amber	Amber	None	**XR1CG44NV1XX**
	SPDT ON-ON	G =	Green	Green	None	**XR1CG33NV1XX**
	SPDT ON-OFF-ON	G =	Amber	Amber	None	**XR1BG44NV1XX**
	SPDT ON-OFF-ON	G =	Green	Green	None	**XR1BG33NV1XX**
	SPDT (ON)-OFF-(ON)	G =	Amber	Amber	None	**XR1EG44NV1XX**
	SPDT (ON)-OFF-(ON)	G =	Green	Green	None	**XR1EG33NV1XX**
None	DPST OFF-ON ②	X = None	None	None	Int'l ON/OFF ④	**XRXMXXXNV1CU**
	DPST OFF-ON ②	X = None	None	None	ON/OFF ④	**XRXMXXXNV1DB**
	DPST OFF-ON	X = None	None	None	None	**XRXMXXXNV1XX**
	DPST ON-ON	X = None	None	None	None	**XRXNXXXNV1XX**
125 Vac LED ①	SPST OFF-ON	E =	None	Amber	None	**XR3AEX4NV1XX**
	SPST OFF-ON	E =	None	Green	None	**XR3AEX3NV1XX**
	SPST OFF-ON	E =	None	Red	None	**XR3AEX2NV1XX**
	SPDT ON-ON	G =	Amber	Amber	None	**XR3CG44NV1XX**
	SPDT ON-ON	G =	Green	Green	None	**XR3CG33NV1XX**
	SPDT ON-OFF-ON	G =	Amber	Amber	None	**XR3BG44NV1XX**
	SPDT ON-OFF-ON	G =	Green	Green	None	**XR3BG33NV1XX**
	SPDT (ON)-OFF-(ON)	G =	Amber	Amber	None	**XR3EG44NV1XX**
	SPDT (ON)-OFF-(ON)	G =	Green	Green	None	**XR3EG33NV1XX**

Notes

① Available in AC applications only.
② Double-pole not available illuminated; it is available laser etched.
③ See Circuit Diagrams on **Page V11-T2-72**.
④ See Symbols Library on **Page V11-T2-72**.

X Series Symbols Library

Inscription	Catalog Number Suffix
— O	CU

Inscription	Catalog Number Suffix
ON OFF	DB

Technical Data and Specifications

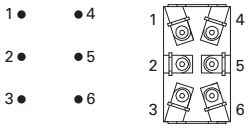
X Series

Description	Specification
Ratings	16A 125V, 10A 277V, 3/4 hp 277V; recommended 21A 14 Vdc or 10A 28 Vdc
Operating temperature	–4° to 176°F (–20° to 80°C)

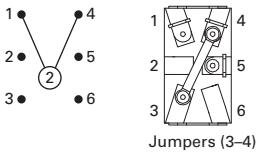
Light Diagrams

X Series

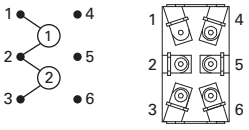
Light Circuit Letter	Functions
X	All



Light Circuit Letter	Functions
E	SPST



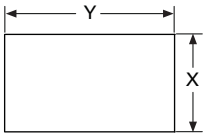
Light Circuit Letter	Functions
G	SPDT



Dimensions

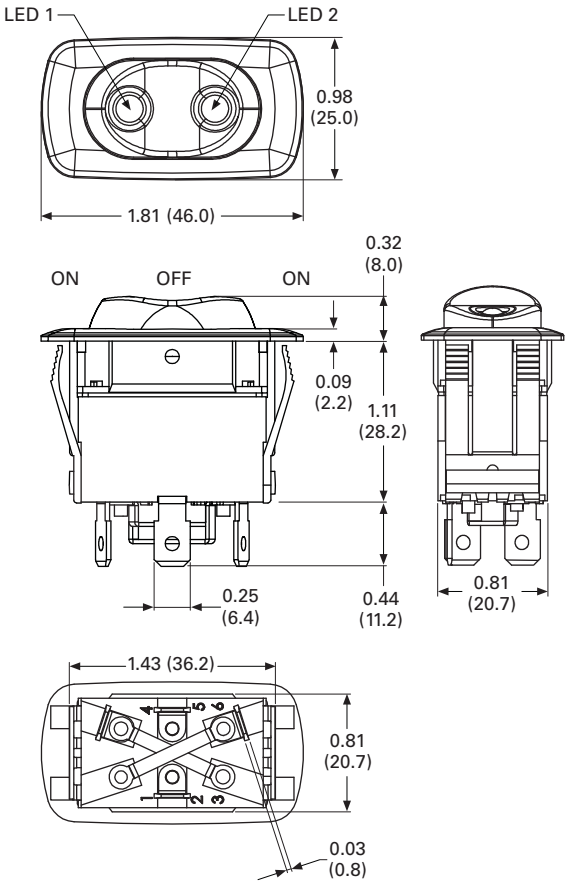
Approximate Dimensions in Inches (mm)

Mounting Hole



	Dimensions
Thickness	0.03–0.12 (0.75–3.0)
X	0.83 +0.01 (21.2 +0.1)
Y	1.46 + 0.01 (37.0 +0.1)

X Series



8064/8065 Series

Contents

Description	*Page*
8064/8065—ESPORT	
Catalog Number Selection	**V11-T2-75**
Technical Data and Specifications	**V11-T2-76**
Icon/Legend Selection	**V11-T2-76**
Dimensions	**V11-T2-77**

Product Description

The ergonomically designed ESPORT Series comes with a large, independent LED-illuminated indicator window that clearly identifies the switch's labeled function—your label or ours. The switch can be ordered with an LED illuminated actuator, as well. All ESPORT switches are molded in a clean matte finish and operate with a definite tactile feel. Actuation of the switch feels crisp. Also, ESPORT switches will accept loads up to15A. Due to the LED's long life, lamp replacement should not be necessary.

Tested in America's toughest truck applications, the ESPORT switch is reliable and durable and is available with a full range of rugged single- and two-pole circuits. It has an optional polarized lock-on connector. Spade switch terminals are tin-plated for long storage life.

Features and Benefits

- Contact Mechanism

Slow-make/slow-break contact mechanism. Butt action contact mechanism designed specifically for use on AC and low voltage DC applications.

- Rocker Material

Thermoplastic rocker actuators. Different colors are available. The rocker and the bezel are a high-grade nylon and are supplied with an aesthetically pleasing matte finish.

- Lamps

Durable, long-life LED illumination; 14 Vdc is standard. Integral indicator is illuminated by two independent green, yellow or red LEDs while the actuator is lighted using one dependent LED. For additional LED voltages and/or colors, contact your local Eaton Sales Representative.

- Mounting Means

Snap-in mounting with plastic bezel.

- Lenses

All switches can be ordered with either a frosted clear lens (Cat. No. 28-5555) or a translucent white lens (Cat. No. 28-5555-2). The clear lens will allow the maximum amount of diffused light to flow through your label or one of ours. The white lens is shipped unassembled to facilitate the addition of your engraved or pad-printed legend.

- Labels

The lens area of the integral indicator will accept a label 0.750 x 0.450 and 0.010 in (19.05 x 11.43 x 0.25 mm) thick. Our selection of standard labels with white legends on black poly-carbonate background can be found on **Page V11-T2-76**.

Options

- Additional colors of rockers and mounting bezels are available
- Special circuits
- Special ratings
- Dry circuit capabilities
- Pad-printed legends on lens, rocker and bezel
- Special indicator legend labels
- Special LEDs and LED voltages
- Special actuators
- Reversing jumpers
- Solder terminals and other terminal types
- Wire leads
- Polarized lock-on connector: 28-5558
- Full-size Euro-Look panel plugs: 17-19544-2

For information on optional features, contact your local Eaton Sales Representative.

Standards and Certifications

- UL Recognized and recognized component for Canada: File 2702
- RoHS Compliant ①

Note

① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

ESPORT Full-Size Rocker Switches

To determine complete catalog number, start with the appropriate base circuit number and add the appropriate code letters and/or numbers.

Catalog Number Selection

How To Order—ESPORT, Non-Illuminated

Example: **8064K10** → **L R Z 1 W 2**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number
15A, 125 Vac 15A, 28 Vdc	1PST	5-6	NONE	OFF	**8064K10**
		OFF	NONE	5-4	**8064K11**
	1PDT	2-3	OFF	2-1	**8064K14**
		2-3	NONE	2-1	**8064K12**
		2-3 ①	OFF	2-1	**8064K17**
		2-3 ①	OFF	2-1 ①	**8064K16**
	2PST	2-3, 5-6	NONE	OFF	**8064K20**
		OFF	NONE	2-1, 5-4 ①	**8064K21**
	2PDT	2-3, 5-6	OFF	2-1, 5-4	**8064K24**
		2-3, 5-6	NONE	2-1, 5-4	**8064K22**
		2-3, 5-6 ①	OFF	2-1, 5-4	**8064K27**
		2-3, 5-6 ①	OFF	2-1, 5-4	**8064K26**

Code letters and/or numbers. Add to base circuit number.

Rocker Style
S = 1 in paddle
L = 1.5 in paddle
B = Rocker

Indicator LED Color
R = Red
Y = Yellow
G = Green

Rocker LED Color
Z = None

LED Voltage
1 = 14 Vdc
2 = 28 Vdc

Rocker Color
B = Black
W = White
R = Red
G = Gray

Lens Color
1 = Clear
2 = White ②

How To Order—ESPORT, Illuminated

Example: **8065K10** → **S R Y 1 W 2**

Rating	Poles and Throw	Circuit with Rocker in … UP Position	CENTER Position	DOWN Position	Base Circuit Number
15A, 125 Vac 15A, 28 Vdc	1PST	5-6	NONE	OFF	**8065K10**

Code letters and/or numbers. Add to base circuit number.

Rocker Style
B = Rocker
S = 1 in paddle

Indicator LED Color
R = Red
Y = Yellow
G = Green

Rocker LED Color
R = Red
Y = Yellow
G = Green

LED Voltage
1 = 14 Vdc
2 = 28 Vdc

Rocker Color
B = Black
W = White
R = Red
G = Gray

Lens Color
1 = Clear
2 = White ②

Notes

① Momentary contact.
② White lenses are furnished unassembled.

Technical Data and Specifications

8064/8065—ESPORT

2

Description	Specification
Ratings	15A at 125 Vac; 10A at 250 Vac; 3/4 hp at 250 Vac Switch ratings at 125 Vac also apply to 28 Vdc
Circuits	1PST, 1PDT, 2PST and 2PDT Maintained and momentary action
Contact material	Movable—Silver-plated copper with silver contact face button Stationary—Copper with silver contact face button
Mechanical life	Maintained—100,000 operations, minimum Momentary—25,000 operations, minimum
Terminal types	Switch—Standard 0.250 in (6.35 mm) spade, tintillate-plated brass Integral indicator—0.110 x 0.032 in (2.79 x 0.813 mm) spade, tintillate-plated brass
Base material	Thermoset molding material
Dielectric	1000V rms, minimum
Mounting means	Snap-in mounting with plastic bezel

Icon/Legend Selection

- All labels below come with adhesive backing
- Label legends are distinct and easily readable when illuminated from behind
- Additional labels are available upon request. Contact your local Eaton Sales Representative

Icons and Legends

Legend	Style	Ordering Code ①	Icon	Description	Ordering Code ①
Dome Light	Helvetica Narrow 0.135 in (3.43 mm) high White translucent letters Opaque black background	**0055**		**Windshield Wiper** SAE Specification No. J1362-0086 White graphic on a black background	**0057**
Work Light		**0056**			
TV/VCR		**0065**			
Fridge		**0066**		**Windshield Washer** SAE Specification No. J1362-0087 White graphic on a black background	**0986**
Cruise ON/OFF		**0067**			
Brake Select		**0068**			
Brake ON/OFF		**0069**		**Master Lighting Switch** SAE Specification No. J1362-5012 White graphic on a black background	**0687**
Fan Override		**0071**			
Cruise Set		**0681**			
Engine Brake		**0682**		**Fog Lights** SAE Specification No. J1362-0633 White graphic on a black background	**0684**
Left Window		**0683**			
Power Mirror		**0688**		**Clearance/Position Light** SAE Specification No. J1362-0456 White graphics on a black background	**0686**
Right Window		**0689**			

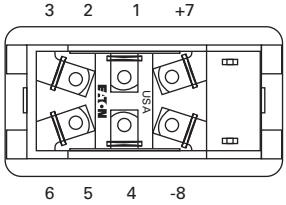
Note

① Ordering Code: If a standard label is required, add the Ordering Code to the end of ESPORT Switch part number preceded by a dash. Example: To order 8065K10BYR1B1 with the 0684 Fog Lights label, the part number will be 8065K10BYR1B1-0684.

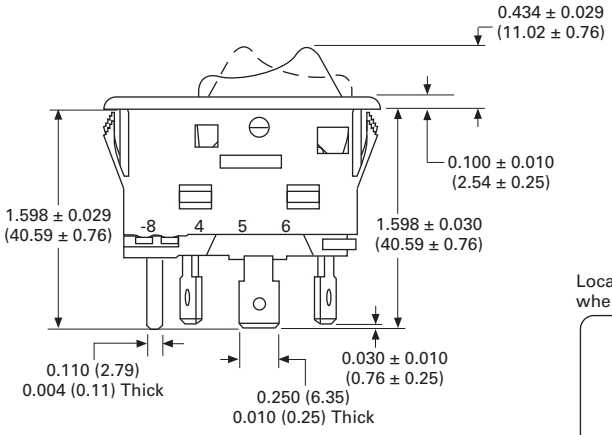
Dimensions

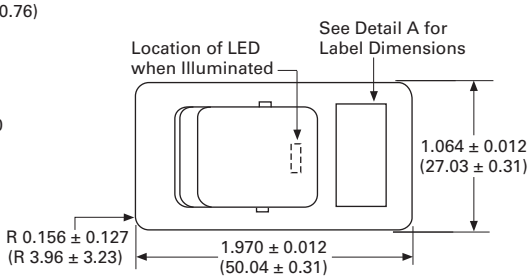
Approximate Dimensions in Inches (mm)

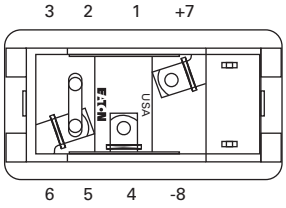
Non-Illuminated and Illuminated



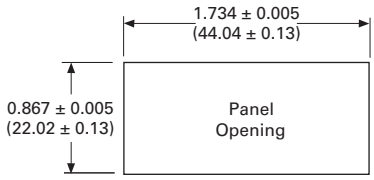
2 PDT—Non-Illuminated
Bottom View



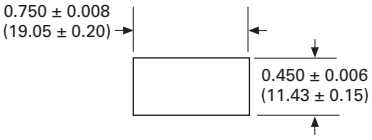




1 PST—Illuminated
Bottom View



Panel Opening
Reference Only
Thickness:
0.060 to 0.150 (1.52 to 3.81)



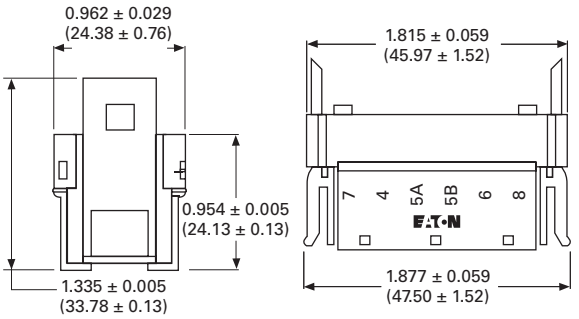
Label Dimensions
Detail A

Dimensions for NGR, EURO SR, Full Size Euro-Look and ESPORT Rocker Accessories

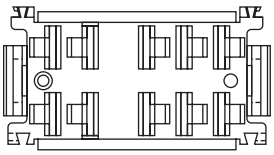
Approximate Dimensions in Inches (mm)

2

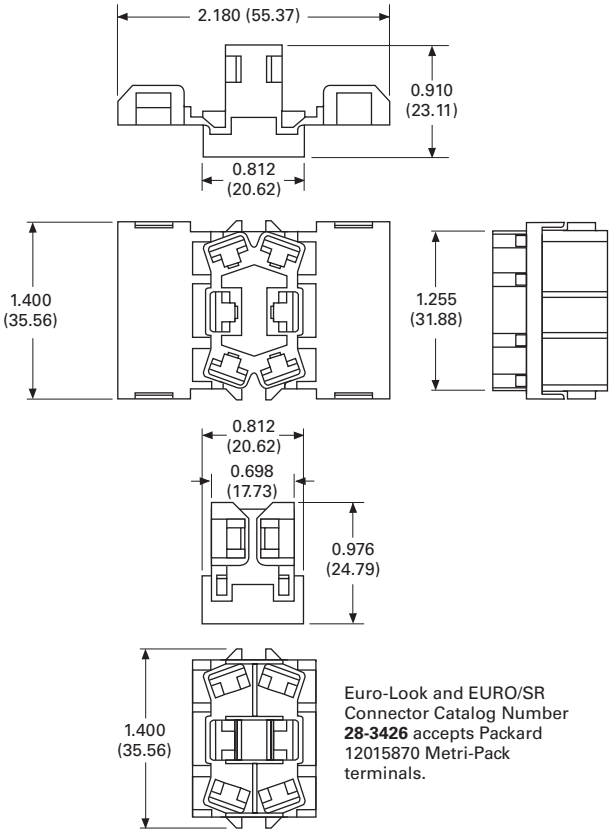
NGR Connector



NGR Connector Catalog Number **28-5637-2** accepts Packard 12015870 Metri-Pack terminals or AMP compatible connector **28-5940** accepts AMP terminals 42100-2.

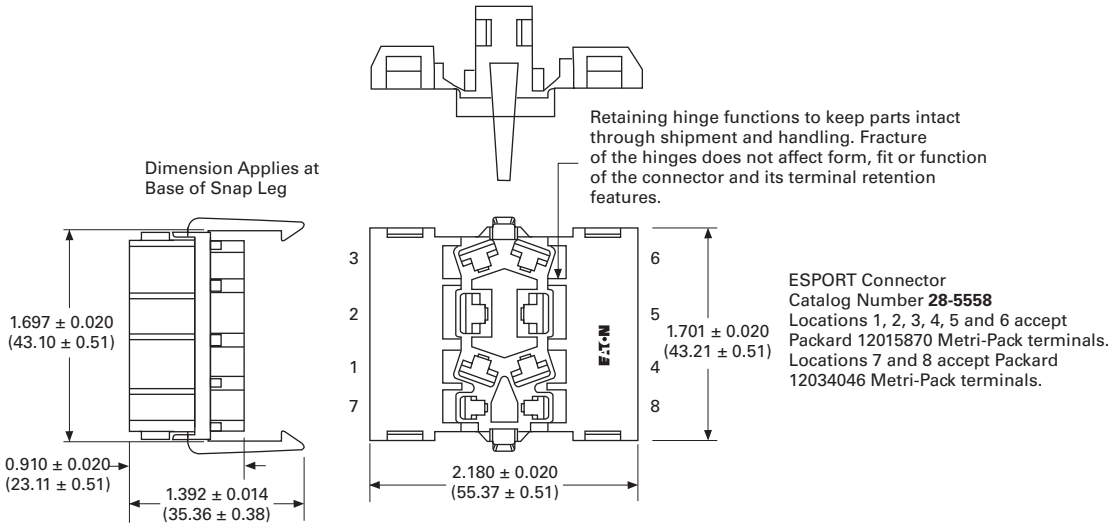


Euro/SR and Full Size Euro-Look Connector



Euro-Look and EURO/SR Connector Catalog Number **28-3426** accepts Packard 12015870 Metri-Pack terminals.

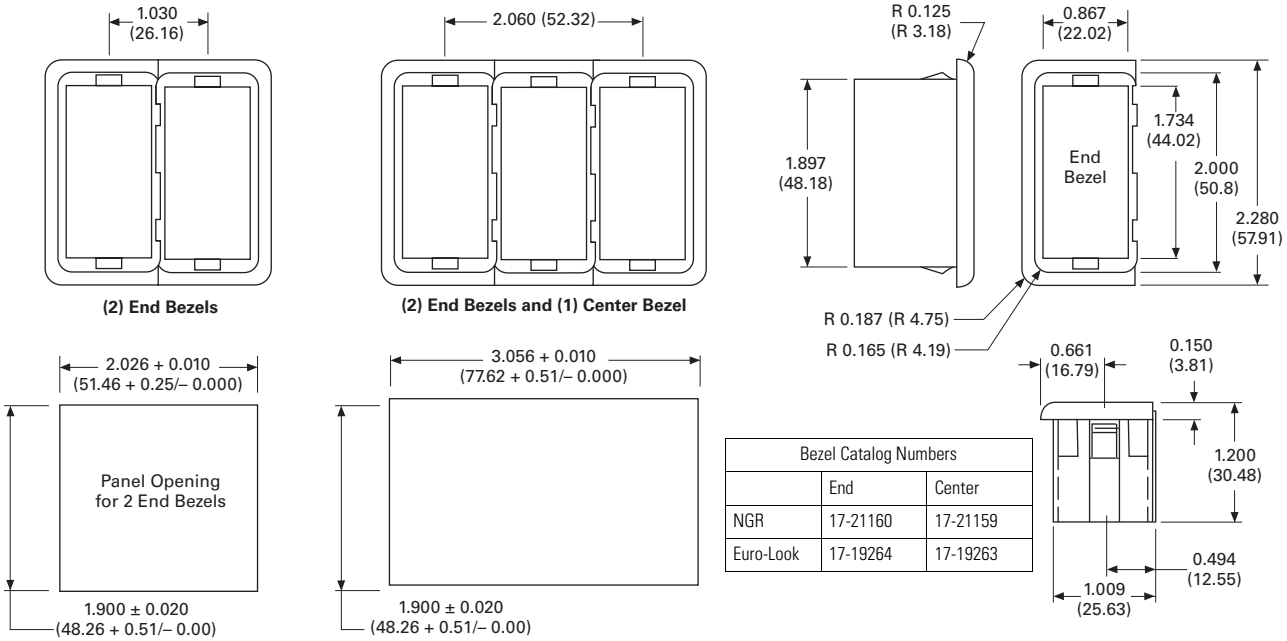
ESPORT Connector



ESPORT Connector Catalog Number **28-5558** Locations 1, 2, 3, 4, 5 and 6 accept Packard 12015870 Metri-Pack terminals. Locations 7 and 8 accept Packard 12034046 Metri-Pack terminals.

Approximate Dimensions in Inches (mm)

Gang Mounting System



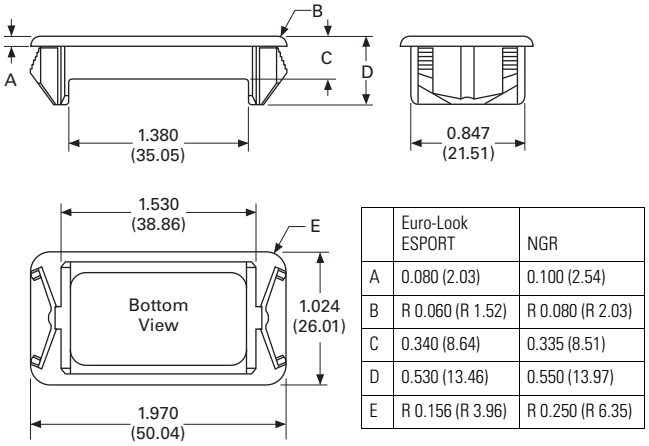
Bezel Catalog Numbers		
	End	Center
NGR	17-21160	17-21159
Euro-Look	17-19264	17-19263

Panel Opening—Reference Only
Thickness: 0.039 to 0.078 to 0.118
(1.00 to 2.00 to 3.00)

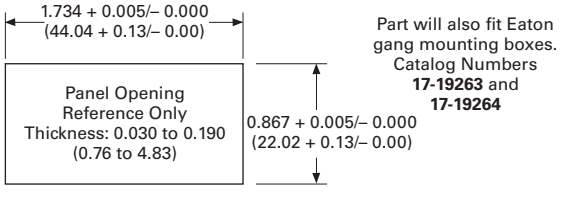
Dimensions: 2.026 + 0.254/–0.00 (51.46 + 0.254/–0.000)
Plus Number of Center Bezels Times 1.03

Tolerance: +0.254/–0.000 (+ 0.254/–0.000) for Each
Center Bezel up to a Maximum of + 0.0002 (+ 0.050)

NGR, Euro-Look and ESPORT Panel Plugs



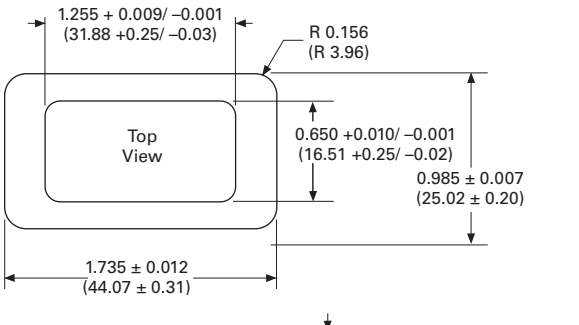
	Euro-Look ESPORT	NGR
A	0.080 (2.03)	0.100 (2.54)
B	R 0.060 (R 1.52)	R 0.080 (R 2.03)
C	0.340 (8.64)	0.335 (8.51)
D	0.530 (13.46)	0.550 (13.97)
E	R 0.156 (R 3.96)	R 0.250 (R 6.35)



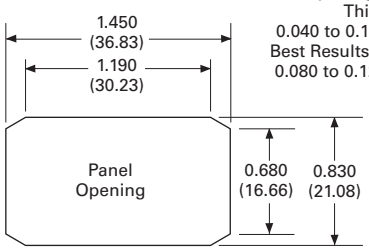
Part will also fit Eaton gang mounting boxes. Catalog Numbers **17-19263** and **17-19264**

Panel plug Catalog Number **17-19544-2** for Use with Euro-Look and ESPORT. NGR panel plug Catalog Number **17-21543**.

EURO SR Panel Plugs

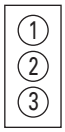


Panel Opening—Reference Only
Thickness:
0.040 to 0.140 (1.01 to 3.55)
Best Results Obtained From:
0.080 to 0.125 (2.03 to 3.17)

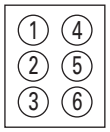


Panel Plug Catalog Number **53-3318**
For Use with EURO/SR

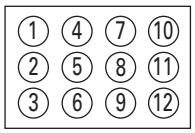
Single-Pole



Two-Pole



Four-Pole



Terminal Identification

When specified on order, switches will have the terminals identified as shown in the illustration at right. Terminal markings will be ink-stamped on the side of the switch case and unused terminal positions will not be identified.

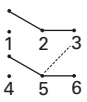
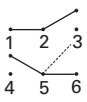
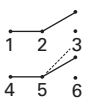
All views are rear of switch with keyway or at down as applicable. Terminal numbers 2, 2 and 5 and 5 and 8 are considered inboard terminals for single-, two- and four-pole switches respectively. All others are considered outboard.

"Three Independent" ON-ON-ON Circuit Diagram

For switch modified with "Three Independent" ON-ON-ON special circuit. External jumpers are required. User to connect wiring per instructions given below.

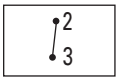
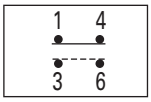
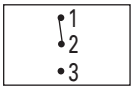
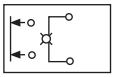
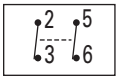
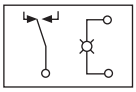
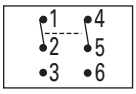
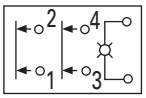
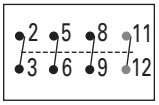
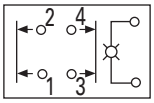
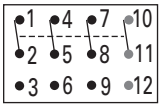
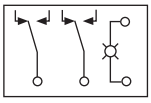
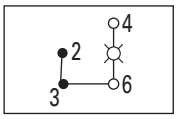
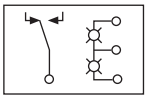
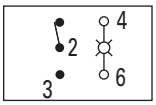
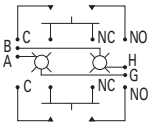
ON-ON-ON Special Circuit

Connection Points	Single-Pole
Connect common to terminals	2
Connect circuit "A" to terminals	6
Connect circuit "B" to terminals	4
Connect circuit "C" to terminals	1

3 ON Independent	No. of Poles	Circuit with Lever in … UP Position	CENTER Position (Maintained)	DOWN Position (Keyway)
		Circuit A	Circuit B	Circuit C
1 PDT	1			

Circuit Diagrams

Rocker Circuit Diagrams

Circuit Letter	Schematic	Circuit Letter	Schematic
A 1PST		**I** 2 Circuit ⑤	
B 1PDT		**J** 1PST	
C 2PST		**K** 1PDT	
D 2PDT		**L** 2PST	
E 4PST ①		**M** 2PST	
F 4PDT ②		**N** ⑥ 2PDT	
G ③ 1PST		**P** 1PDT	
H ④ 1PDT		**Q** ⑦ 2 Circuit	

Legends

Rocker Switch Legend

Legend	Rocker Switch Type
●	Contact terminal—will make contact with switch lever
○	Isolated terminal—does not make contact with lever
	Center terminal and switch lever
	Bulb
	Momentary contact
●	Denotes mechanical contact portion

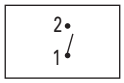
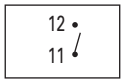
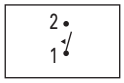
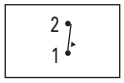
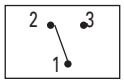
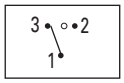
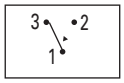
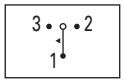
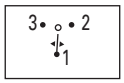
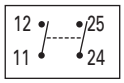
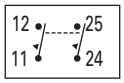
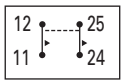
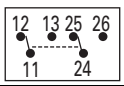
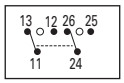
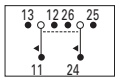
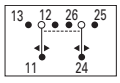
See next page for Midsize Switch Circuit Diagrams. See **Page V11-T2-17** for NGR Circuit Diagrams.

Notes

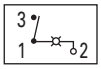
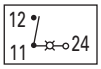
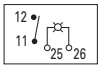
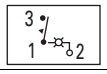
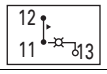
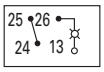
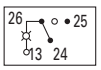
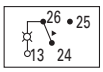
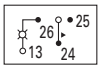
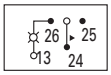
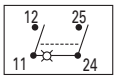
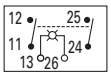
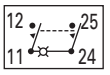
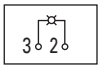
① Poles 11 and 12 may be eliminated for three-pole devices.
② Poles 10, 11 and 12 may be eliminated for three-pole devices.
③ Dependent lamp.
④ Independent lamp.
⑤ Two circuit—indicates a special type of double-throw switch in which the two circuits being controlled may be independent of each other.
⑥ For 206 Series, an additional lamp is available.
⑦ Available in 1PDT or 2PDT.

Midsize Switch Circuit Diagrams ①

Non-Illuminated

Circuit Number (Circuit Designator)	Schematic	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
1 1PST		OFF	NONE	ON
2 1PST		OFF	NONE	ON
3 1PST		OFF	NONE	MOM. ON
4 1PST		OFF	NONE	ON
5 1PDT		ON	NONE	ON
6 1PDT		ON	OFF	ON
7 1PDT		MOM. ON	NONE	ON
8 1PDT		ON	OFF	MOM. ON
9 1PDT		MOM. ON	OFF	MOM. ON
10 2PST		OFF	NONE	ON
11 2PST		OFF	NONE	MOM. ON
12 2PST		MOM. OFF	NONE	ON
13 2PDT		ON	NONE	ON
14 2PDT		ON	OFF	ON
15 2PDT		MOM. ON	NONE	ON
16 2PDT		ON	OFF	MOM. ON
17 2PDT		MOM. ON	OFF	MOM. ON

Illuminated

Circuit Number (Circuit Designator)	Schematic	Circuit with Rocker In … DOWN Position	CENTER Position	UP Position
18 1PST		OFF	NONE	ON
19 1PST		OFF	NONE	ON
20 1PST ②		OFF	NONE	ON
21 1PST		OFF	NONE	MOM. ON
22 1PDT		MOM. OFF	NONE	ON
23 1PDT		ON	NONE	ON
24 1PDT		ON	OFF	ON
25 1PDT		MOM. ON	NONE	ON
26 1PDT		ON	OFF	ON
27 2PST		ON	OFF	ON
28 2PST		ON	NONE	ON
29 2PST ③		ON	NONE	ON
30 2PDT		MOM. ON	NONE	MOM. ON
31 2PDT		ON	NONE	ON
32 Indicator		—	—	—

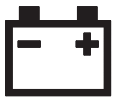
Notes

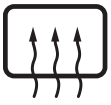
① Terminal numbers 1, 2 and 3 denote single-pole base.
Terminal numbers 11, 12, 113, 24, 25 and 26 denote two-pole base.

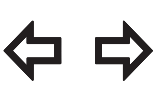
② Single-pole in two-pole base with lamp independently wired.

③ Two-pole—independently wired lamp.

NGR, SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	AA
	AB
	AC
	AD
	AE
	AF
	AG
	AH
	AJ
	AK
	AL
	AM
	AN
	AP

Inscription	Catalog Number Suffix
	AQ
	AR
	AS
	AT
	AU
	AV
	AW
	AX
	AY
	BA
	BB
	BC
	BD
	BE

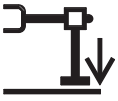
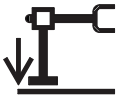
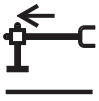
Inscription	Catalog Number Suffix
	BF
	BG
	BH
	BI
	BJ
	BK
	BL
	BM
	BN
	BP
	BQ
	BR
	BS
	BT

Inscription	Catalog Number Suffix
	BU
	BV
	BW
	BX
	BY
	BZ
	CA
	CB
	CC
	CD
	CE
	CF
	CG
	CH

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR, SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
SET/COAST RES/ACCEL	CI
REGLER/ ROUE LIBRE	CJ
AJUSTAR	CK
CRUISE	CL
REPRENDRE/ ACCEL	CM
VOLVERA VELOCIDAD	CN
	CP
	CQ
	CR
	CS
	CT
	CU
	CV
	CW

Inscription	Catalog Number Suffix
	CX
	CY
	DA
	DB
	DC
	DD
	DE
	DF
	DG
	DH
	DJ
	DK
	DL
	DM

Inscription	Catalog Number Suffix
	DN
	DP
	DQ
	DR
	DS
	DT
	DU
	DV
	DW
START	DX
STOP	DY
	DZ
	EA
	EB

Inscription	Catalog Number Suffix
	EC
	ED
	EE
SET	EF
RESUME	EG
ETHER	EH
	EI
	EJ
	EK
	EL
	EM
	EN
B/U CAMERA	EO
	EP

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR, SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	EQ
	ER
WC	ES
	ET
	EU
	EV
	EW
	EX
	EY
	EZ
	FA
	FB
	FC
	FD

Inscription	Catalog Number Suffix
	FE
	FF
	FG
	FH
	FI
	FJ
	FK
	FL
	FM
	FN
	FO
	FP
	FQ
	FR

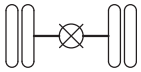
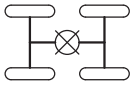
Inscription	Catalog Number Suffix
	FS
	FT
LOW DOCKING	FU
DOCKING	FV
CORNERING	FW
	FX
	FY
	FZ
	GA
	GB
	GC
	GD
DEST.	GE
110 VOLT	GF

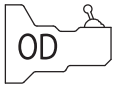
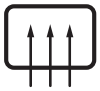
Inscription	Catalog Number Suffix
MICRO WAVE	GG
	GH
	GI
DECEL	GJ
UNLOAD TAG	GK
	GL
	GM
	GN
	GP
	GQ
	GR
	GS
	GT
	GU

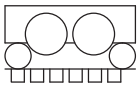
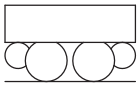
[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR, SVR, E31, E32 and eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	GV
	GW
	GY
	HA
L	HB
R	HC
CRUISE ON-OFF	HD
	HE
	HF
LUZ PASILLO	HG
	HH
	HJ
DUMP DOOR	HK
	HL

Inscription	Catalog Number Suffix
	HM
	HN
	HP
	HQ
	HR
	HS
ASR AUX	HT
	HU
	HV
MIRROR CLEAN	HW
	HY
SECUENCIA DE DIAGNOSTICO	JA
	JB
	JC

Inscription	Catalog Number Suffix
	JD
	JE
	JF
READ	JG
LAMP TEST	JH
	JJ
	JK
	JL
	JM
	JN
	JP
	JQ
km/h	JR
	JS

Inscription	Catalog Number Suffix
AUDIO VIDEO	JT
	JU
	JV
	JW
	JX
	JY
	JZ
	KA
MAX TRAN	KB
REMOTE CONTROL	KC
TRACTION CONTROL	KD
BLINK CODE	KE
HAND THROT	KF
ENG DIAG	KG

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

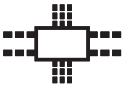
NGR, SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
INTARDER	KH
CMU	KI
	KJ
CRUISE SET	KK
HIGH IDLE	KL
SANDERS	KM
	KN
	KO
OVER LOAD DRIVE AXLE	KP
TRACTION CONTROL	KQ
	KR
	KS
12 V. MASTER	KT
B/U LIGHTS	KU
GEN. START	KV
LOW 12 V.	KW
LOW 110 V.	KX
AIR HORN	KY
STEP SLIDE	KZ
	LA
	LB
CRUISE SELECT	LC
TEST ALARMS	LD
	LE
	LF
AUX HYD OVERHEAT	LG
VIDEO	LH
ENTER	LI
EXIT	LJ
EXH BRK	LK
24V. CHARGER	LL
AQUA HOT	LM
HEAT EXCHGR	LN
AIR COMPSR	LO
	LP
	LQ
	LR
	LS
PA	LT
G-AUX START	LU
CNTR A/C	LV
REAR A/C	LW

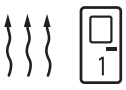
[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
	LX
	LY
POSITION LIGHT	LZ
MASTER WARN	MA
UPPER WARN	MB
LOWER WARN	MC
COMPT LIGHTS	MD
WORK LIGHTS	ME
FAST IDLE	MF
MIRROR HEAT	MG
GEN PTO	MH
WIGWAG	MI
SIREN BRAKE	MJ
LEFT SCENE	MK

Inscription	Catalog Number Suffix
RIGHT SCENE	ML
REAR SCENE	MM
STOP START	MN
BATT IGN	MO
	MP
	MS
	MT
TWO TONE HORNS	MU
SIREN AMP TWO TONES	MV
PUMP PTO	MW
CRUISE	MX
RES/ ACCEL	MY
SET/ COAST	MZ
RETARD ON/OFF	NA

Inscription	Catalog Number Suffix
	NB
	NC
	ND
FRONT A/C	NE
RETARDER	NF
OPTCOM	NG
FUEL PRIME	NH
AERIAL PTO	NI
AIRHRN HORN	NJ
SIREN HORN	NK
Q2B HORN	NL
SIREN Q2B HORN	NM
AIRHRN Q2B HORN	NN
AIRHRN SIREN HORN	NO

Inscription	Catalog Number Suffix
REAR HEAT	NP
 INC.	NQ
 DEC.	NR
	NS
WHT LT DISABLE	NT
	NU
LEFT QTZ LT	NV
RIGHT QTZ LT	NW
DECK LIGHT	NX
ADD'L STROBE	NY
REAR QTZ LT	NZ
MODE	PA
	PB
	PC

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
AUX LIGHTS	PD
	PE
FRONT BLIND	PF
SIDE BLIND	PG
ON	PH
OFF	PI
GEN STRT STOP/PRHT	PJ
B.O. SELECT	PK
	PL
B.O. LIGHTS	PM
LEFT DRV	PN
RIGHT DRV	PP
INVERTER	PQ
	PR
VOLUME UP	PS
VOLUME DOWN	PT
MUTE ON	PU
MUTE OFF	PV
	PW
DISPLAY POWER	PX
CRUISE ADJ	PY
HILL HOLDER	PZ
	RA
AISLE LAMPS	RB
	RC
	RD
OVER LOAD DRIVE AXLE	RE
	RF
	RG
CHECK ENGINE	RH
	RI
	RJ
	RK
	RL
	RM
ABS CODE	RN
	RP
	RQ
	RS
	RT
	RU
	RV
	RW
	RX
	RY
	RZ
	SA
	SB
	SC
	SD
	SE
	SF
	SG
	SH
	SJ
	SK

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
	SL
	SM
Mode	SN
	SP
	SQ
OFF ROAD TRACTION	SR
	SS
	ST
INTER-AXLE	SU
8X8	SV
	SW
	SX
AUX HYD	SY
HYD ENABLE	SZ

Inscription	Catalog Number Suffix
GPFU	TA
CHEM ALARM	TB
	TC
	TD
	TE
	TF
OVER LOAD DRIVE AXLE	TG
	TH
	TJ
	TK
	TL
	TM
SUSP RECOVER	TN
	TP

Inscription	Catalog Number Suffix
	TQ
	TR
	TS
	TT
	TU
	TV
	TW
	TX
	TY
	TZ
	UA
	UB
	UC
	UD

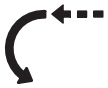
Inscription	Catalog Number Suffix
	UE
	UF
	UG
	UH
	UK
	UL
	UM
	UN
	UP
	UR
	US
	UT
	UU
	UV

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
	UW
	UX
	UY
 AUX HYD	UZ
	VA
	VB
	VC
	VD
H/O 	VE
	VF
	VG
REAR 	VH
OPEN 	VK
CLOSE 	VL

Inscription	Catalog Number Suffix
	VM
	VN
	VP
DOOR BYPASS	VR
VGT BRK	VS
ASI RESET	VT
CURT. UP	VU
CURT. DOWN	VV
BROOM IN	VW
BROOM OUT	VX
B.O. LIGHTS	VY
ABS BLINK CODE	VZ
	WA
MUD/SNOW TRACTION	WB

Inscription	Catalog Number Suffix
AUTO 	WC
MAN 	WD
	WE
	WF
	WG
	WH
	WJ
	WK
	WL
	WM
	WN
	WP
MIRROR SELECT	WR
T M B	WS

Inscription	Catalog Number Suffix
MIRROR HEAT	WT
OVHD FAN	WU
CEILING LIGHTS	WV
BATTERY BOOST	WW
GENERATOR	WX
DRVR SHADE	WY
PEDALS	WZ
ATC	XA
ENGINE BRAKE	XB
SHOCKS	XC
AIR DUMP	XD
TAG AXLE	XE
FOG LIGHTS	XF
DIMMER	XG

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
HEADLIGHTS	XH
DOCKING LIGHTS	XJ
AQUA HOT ENGINE PREHEAT	XK
ENGINE BLOCK HEAT	XL
PORCH LIGHT	XM
HANDLE STEP LIGHTS	XN
STEP	XP
BAY LIGHTS	XR
BATT CUTOFF	XS
STEP COVER	XT
PASS SHADE	XU
NBC	XV
AUX SUPPLY	XW
	XX
	XY
	XZ
	YA
	YB
	YC
SILENT WATCH	YD
	YE
	YF
	YG
	YH
IR SELECT	YJ
IR DRIVE	YK
CRUISE	YL
ABS OFF-RD	YM
CTIS	YN
	YP
	YQ
IGNITION	YR
ENGINE STOP	YS
ENGINE START	YT
CAMERA AIR	YU
WINDOW	YV
	YW
T-CASE LOW	YX
TANK 2	YY
TANK 1	YZ
	ZA
	ZB
PUMP	ZC
ROAD	ZD
	ZE
UNLOCK	ZF
LOCK	ZG
LM OVRRDE	ZH
E SHUT DWN	ZJ
	ZK
	ZL
	ZM
	ZN
	ZP
	ZR
	ZS

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

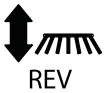
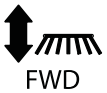
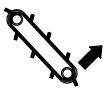
Inscription	Catalog Number Suffix
	ZT
CAMERA	ZU
VIDEO	ZV
AIR	ZW
ELEC	ZX
FRONT BRAKE	ZY
TIRE CHAINS	ZZ
	A1
400V	B1
230V	C1
MC	D1
	E1
	F1
	G1
	H1
HP	J1
F1	K1
	L1
	M1
	N1
	P1
	R1
	S1
	T1
FRONT 	U1
SIDE / REAR 	V1
B.O. SELECT	W1
IDLE 	X1
	Y1
	Z1
	A2
ATC OFF ROAD	B2
	C2
120V 	D2
GAUGE UP/DWN	E2
GAUGE MODE	F2
ENG AFES	G2
CREW AFES	H2
	J2
ABS DIAG	K2
HORN Q2B	L2
MASTER DUMP	M2
PEDALS	N2
GAUGE MODE	P2
REGEN	R2
FRONT QTZ LT	S2
	T2
	U2
	V2
ECO	W2
	X2
	Y2
	Z2
	A3
	B3
GEN ENGAGE	C3

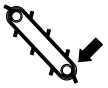
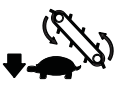
[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
	D3
	E3
	F3
	G3
	H3
	J3
	K3
PEDAL 	L3
PEDAL 	M3
BAT XOVER	N3
BAT O/RIDE	P3
	Q3
HORN SIREN	R3
DOME LIGHT	S3

Inscription	Catalog Number Suffix
AIRHRN ALT AH	T3
DIFF LOCK	U3
HORN AIRHORN SIREN	V3
MIL	W3
ATC OVRRDE	X3
OUTRGR LASER	Y3
AER QTZ LT	Z3
FOG LIGHTS	A4
BATTLE SHORT	B4
MENU UP	C4
MENU DOWN	D4
ARMOR	E4
NO ARMOR	F4
KNEEL	G4

Inscription	Catalog Number Suffix
ROTO-RAY	H4
REGEN	J4
REGEN INHBT	K4
	L4
	M4
	N4
BODY QTZ LT	P4
 REV	R4
 FWD	S4
TILT  UP	T4
TILT  DOWN	U4
 REV	V4
 FWD	W4
	X4

Inscription	Catalog Number Suffix
	Y4
	Z4
	A5
	B5
	C5
	D5
	E5
	F5
AUX PUMP	G5
TST 1	H5
TST 2	J5
TST 3	K5
SAVE	L5
DOOR LOCK	M5

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
TELMA RTDR	N5
SIREN AIRHORN HORN	P5
PUMP PANEL LTS	Q5
REAR HEATER	R5
T/G OPEN	S5
HYD FILTER	T5
TRANS TEMP	U5
OIL LEVEL	V5
PUMP	W5
STROBE LIGHT	X5
WORK LIGHT	Y5
FLASHING LIGHT	Z5
CAMERA LIGHT	A6
PLATFORM LEVEL	B6
RUMBLER	C6
	D6D6
GRND LT	E6
RED INT LT	F6
WHT INT LT	G6
VAC PUMP	H6
PRESS MODE	J6
VENT VALVE	K6
DRIVER VALVE	L6
OFFICER VALVE	M6
REAR VALVE	N6
MASTER POWER	P6
LEFT CHUTE EXTEND	Q6
RIGHT CHUTE EXTEND	R6
REAR CHUTE EXTEND	S6
LEFT DUMP OPEN	T6
RIGHT DUMP OPEN	U6
REAR DUMP OPEN	V6
LEFT CHUTE RETRACT	W6
RIGHT CHUTE RETRACT	X6
REAR CHUTE RETRACT	Y6
LEFT DUMP CLOSE	Z6
RIGHT DUMP CLOSE	A7
REAR DUMP CLOSE	B7
	C7
PTO	D7
	E7
Q2B SIREN HORN	F7
Q2B AIRHORN HORN	G7
A	H7
B	J7
SCENE LT	K7
	L7
BODY UP	M7
BODY DOWN	N7
S/S TG RAISE	P7
S/S TG LOWER	Q7
S/S TG LOCK	R7
S/S TG UNLOCK	S7
C/S TG RAISE	T7
C/S TG LOWER	U7
C/S TG LOCK	V7

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

NGR Only Symbols ①②

Inscription	Catalog Number Suffix
C/S TG UNLOCK	W7
AUTO PACK	X7
PACKER EXTEND	Y7
PACKER RETRACT	Z7
ONE PACK	A8
TWO PACK	B8
OUTSIDE CONTROLS	C8
STREETSIDE TAILGATE	D8
CURBSIDE TAILGATE	E8
TAILGATE RAISE	F8
TAILGATE LOWER	G8
TAILGATE LOCK	H8
TAILGATE UNLOCK	J8
HOPPER FLOOD	K8
BODY RAISED	L8
TIPPER EXTENDED	M8
PUMP ON	N8
THR ADV	P8
AUTO NEUTRAL	Q8
HIGH IDLE	R8
HEATER	S8
LEFT MIRROR	T8
RIGHT MIRROR	U8
IR LIGHTS	V8
B.O. SPOT LIGHTS	W8
TANK TO PUMP	X8
THROT INC	Y8
FOAM	Z8
FLUSH	A9
TAKEDOWN LIGHTS	B9
DEC	C9
VACUUM POMPE	D9
MODE PRESSION	E9
VALVE VENTIL.	F9
VALVE C/ COND.	G9
VALVE C/ OFF.	H9
VALVE ARR.	J9
MAÎTRE	K9
POMPE	L9
LUMIERE TRAVAIL	M9
MAITRE URGENCE	N9
LIGHT BAR	P9
OFFSIDE AIRHORN OVRRD	Q9
OFFSIDE SIREN OVRRD	R9
OFFSIDE Q2B OVRRD	S9
Q2B SIREN	T9
SIREN BRAKE	U9
	V9
	W9
FLUOR LIGHT	X9
	Y9
	Z9
	1A
LOAD LIMIT	1B
	1C
OFF ROAD LTS	1D

① Additional icons are available. Contact your local Eaton Sales Representative.
② SAE Specification No. J1362.

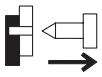
NGR Only Symbols [1][2]

Inscription	Catalog Number Suffix
STEP LT	1E
ON OFF	1F
Drv Spr Nozzle	1G
Off Spr Nozzle	1H
Rem Noz Lt	1J
ALLEY LT RIGHT	1K
ALLEY LT LEFT	1L
PLOW RAISE	1M
PLOW LOWER	1N
PLOW FLOAT	1P
BACK-UP ALRM OVRRD	1Q
HOIST UP	1R
PTO ON	1S
TAIL UP	1T
OVERRIDE	1U
COMMAND LIGHT	1V
PUMP HEATER(S)	1W
LEFT NOZZLE	1X
RIGHT NOZZLE	1Y
	1Z
JAKE BRAKE	2A
OIL TEMP	2B
	2C

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	LX
	LY
HI RPM	MA
LOW RPM	MB
	MC
	MD
TEST 	ME
	MF
	MG
	MH
	MI
	MJ
	MK
RSM/ACC	ML

Inscription	Catalog Number Suffix
SET/CST	MM
SHDN OVRD	MN
EXHST BRK	MP
	MQ
	MR
	MS
	MT
	MU
	MV
	MW
	MX
	MY
	MZ
	NA

Inscription	Catalog Number Suffix
	NB
	NC
	ND
	NE
	NF
	NG
	NH
F	NJ
N	NK
AUX WARN	NL
	NM
	NN
OVER LOAD	NP
	NQ

Inscription	Catalog Number Suffix
	NR
	NS
	NT
	NU
	NV
	NW
	NX
	NY
	NZ
	O3
	PA
	PB
	PC
	PD

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	PE
	PF
	PG
	PH
	PI
	PJ
	PK
	PL
	PM
	PN
	PP
	PQ
	PR
	PS

Inscription	Catalog Number Suffix
	PT
	PU
	PV
	PW
	PX
	PY
	PZ
	QA
	QB
	QC
	QD
	QE
	QF
	QG

Inscription	Catalog Number Suffix
	QH
	QJ
	QK
	QL
	QM
	QN
	QP
	QQ
	QR
	QS
	QT
	QU
	QV
	QW

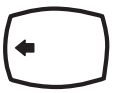
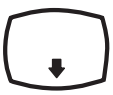
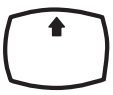
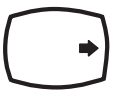
Inscription	Catalog Number Suffix
	QX
	QY
SET ACCEL	QZ
RESUME DECEL	RA
	RB
	RC
WINCH	RD
CRANE	RE
AUTO MODE	RF
MAN MODE	RG
	RH
	RJ
	RK
	RL

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	RM
	RN
	RP
	RQ
	RR
	RS
	RT
	RU
	RV
	RW
	RX
	RY
	RZ
	SA

Inscription	Catalog Number Suffix
	SB
	SC
	SD
	SE
	SF
	SG
	SH
	SJ
	SK
	SL
	SM
	SN
	SP
	SQ

Inscription	Catalog Number Suffix
	SR
	SS
	ST
	SU
	SV
	SW
	SX
	SY
	SZ
	TA
	TB
	TC
	TD
	TE

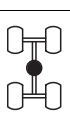
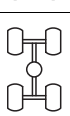
Inscription	Catalog Number Suffix
CLOSE	TF
OPEN	TG
	TH
	TJ
RPM CTRL	TK
ON	TL
AUTO	TM
HIGH	TN
LOW	TP
CHEM ALARM	TQ
GPFU	TR
	TS
LHS	TT
AUTO SPNSN	TU

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	TV
	TW
	TX
	TY
	TZ
	UA
	UB
	UC
	UD
	UE
	UF
	UG
	UH
	UJ

Inscription	Catalog Number Suffix
	UK
	UL
	UM
	UN
	UP
	UQ
	UR
	US
	UT
	UU
	UV
	UW
	UX
AUX HTR	UY

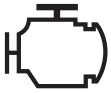
Inscription	Catalog Number Suffix
	UZ
	VA
	VB
FILTER	VC
	VD
	VE
	VF
	VG
	VH
	VJ
	VK
	VL
	VM
	VN

Inscription	Catalog Number Suffix
	VP
	VQ
	VR
	VS
	VT
	VU
	VV
	VW
	VX
	VY
OFF	VZ
	WA
	WB
	WC

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	WD
	WE
	WF
	WG
	WH
	WJ
	WK
	WL
AUTO	WM
	WN
	WP
	WQ
	WR
	WS
	WT
	WU
	WV
	WX
	WY
	WZ
	XA
	XB
F 	XC
R 	XD
SHIFT	XE
	XF
	XG
	XH

Inscription	Catalog Number Suffix
	XJ
	XL
	XM
	XN
CODE	XP
	XQ
	XR
	XS
	XT
	XU
	XV
	XW
	XY
	XZ

Inscription	Catalog Number Suffix
	YA
	YB
	YC
SET/RES	YD
	YE
	YF
	YG
	YH
+	YJ
−	YK
	YL
	YM
	YN
	YP

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols ①②

Inscription	Catalog Number Suffix
	YQ
	YR
	YS
	YT
	YU
	YV
	YW
	YX
	YY
	YZ
	ZA
	ZB
	ZC
	ZD

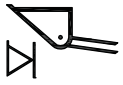
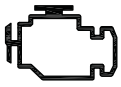
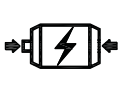
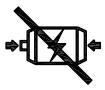
Inscription	Catalog Number Suffix
	ZE
	ZF
	ZG
	ZH
	ZJ
	ZK
	ZL
	ZM
	ZN
	ZP
	ZR
	ZS
	ZT
	ZU

Inscription	Catalog Number Suffix
	ZV
	ZW
	ZX
	ZY
	ZZ
	A1
	B1
	C1
	D1
	E1
	F1
	G1
	H1
	J1

Inscription	Catalog Number Suffix
ENG COMPT	K1
	L1
	M1
ISO	N1
H	P1
	R1
	S1
	T1
	U1
	V1
	W1
DRIVER VALVE	X1
OFFICER VALVE	Y1
REAR VALVE	Z1

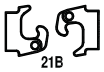
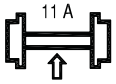
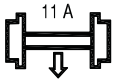
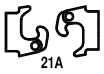
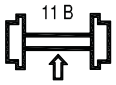
① Additional icons are available. Contact your local Eaton Sales Representative.
② SAE Specification No. J1362.

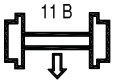
SVR, E31, E32 and E33 eSM Symbols [1][2]

Inscription	Catalog Number Suffix
	A2
	B2
	C2
	D2
	E2
	F2
	G2
	H2
O/D OFF	J2
	K2
	L2
APG	M2
ePTO	N2
	P2
	R2
	S2
	T2
	U2
	V2
	W2
	X2
PUMP COMP LT	Y2
	Z2
	A3
	B3
	C3
	D3
	F3
	G3
	H3
	I3
	J3
	K3
	L3
	M3
	N3
	O3
	P3
	Q3
	R3
	S3
	T3
	U3
	V3
AUTO	W3
	X3
	Y3
	Z3
	A4
	B4
	C4
	D4
	E4
	F4
	G4
	H4

[1] Additional icons are available. Contact your local Eaton Sales Representative.
[2] SAE Specification No. J1362.

SVR, E31, E32 and E33 eSM Symbols ①②

Inscription	Catalog Number Suffix
	I4
	J4
	K4
	L4
	M4
	N4
	O4

Inscription	Catalog Number Suffix
	P4
	Q4
	R4
	S4
	T4
	U4

Inscription	Catalog Number Suffix
	V4
	W4
	X4
	Y4
	Z4
	A5

Inscription	Catalog Number Suffix
	B5
	C5
	D5
	X5
	X6
	X7

① Additional icons are available. Contact your local Eaton Sales Representative.
② SAE Specification No. J1362.