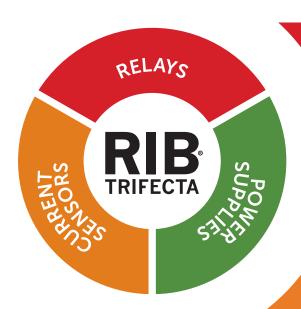


Functional Devices, Inc.



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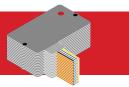
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GET BACK TO THE BASICS



RELAYS



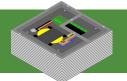
- Prepackaged: LED indicator, pre-wired, transient protection, and optional HOA switch
- 10-30 Amp contact ratings
- Coil voltages of 10-30 Vac/dc, 24 Vac/dc, 120 Vac, 208-277 Vac, 347 Vac or 480 Vac
- Dry contact input relays do not need a transformer and operate on a dry contact closure
- Low-input/optoisolated relays require less power from the controller
- Mechanically latching and polarized/alarm relays
- Red & NEMA 4 housings available

CURRENT SENSORS



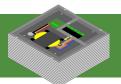
- Sense currents as low as 0.125 Amp or as high as 150 Amps
- Prepackaged: Sensor, LED indicators, and wires or terminals
- Fixed and adjustable models
- Relay/current sensor combinations available
- Current transducers with 0-5 V, 0-10 V, or 4-20 mA output
- Mini current switches as small as 1.5" x 2"
- Self-calibrating models available

AC POWER SUPPLIES



- AC power supplies: 40 VA-500 VA
- Single and dual transformer models
- 500 VA, 300 VA, and 200 VA Class 2 power supplies (Five or three isolated, 24 Vac outputs)
- LED indicator with circuit breaker / switch on each transformer available on some models
- 120 Vac convenience outlets available, with or without primary 10 Amp circuit breaker
- UL508 models available
- High/Low voltage separation available
- Prepackaged enclosure, power supply, and sub-panel kits

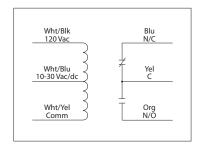
DC POWER SUPPLIES



- 300 mA, 1 Amp, or 2.5 Amp output
- Adjustable output available
- Class 2 models available
- 120 Vac or 24 Vac input
- Isolated and non-isolated
- Enclosed or track mount

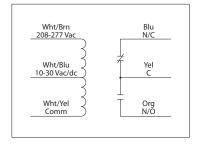
RIBU1C

Enclosed Relay 10 Amp SPDT with 10-30 Vac/dc/120 Vac Coil



RIBH1C

Enclosed Relay 10 Amp SPDT with 10-30 Vac/dc/208-277 Vac Coil















RIBU1C-RD RIBH1C-RD • Red housing



RIBU1C-N4 RIBH1C-N4 • NEMA 4X housing, UL508 only

SPECIFICATIONS

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: LED On = Activated

Dimensions: 1.70" x 2.80" x 1.50" with .50" NPT nipple

Wires: 16", 600V Rated

Approvals: UL Listed, UL916, UL864, C-UL

California State Fire Marshal, CE, RoHS

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: Yes Override Switch: No

Contact Ratings:

10 Amp Resistive @ 277 Vac
10 Amp Resistive @ 28 Vdc
480 VA Pilot Duty @ 240-277 Vac
480 VA Ballast @ 277 Vac
Not rated for Electronic Ballast
600 Watt Tungsten @ 120 Vac (N/O)
240 Watt Tungsten @ 120 Vac (N/C)
1/3 HP @ 120-240 Vac (N/O)

1/6 HP @ 120-240 Vac (N/C) 1/4 HP @ 277 Vac (N/O) 1/8 HP @ 277 Vac (N/C)

Coil Current:

33 mA @ 10 Vac 13 mA @ 10 Vdc 35 mA @ 12 Vac 15 mA @ 12 Vdc 46 mA @ 24 Vac 18 mA @ 24 Vdc 55 mA @ 30 Vac (RIBUTC) 39 mA @ 208-277 Vac (RIBH1C)

Coil Voltage Input:

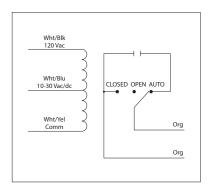
10-30 Vac/dc; 120 Vac; 50-60 Hz (RIBU1C) 10-30 Vac/dc; 208-277 Vac; 50-60 Hz (RIBH1C) Drop Out = 2.1 Vac / 2.8 Vdc

Pull In = 9 Vac / 10 Vdc

10 AMP PILOT CONTROL RELAYS

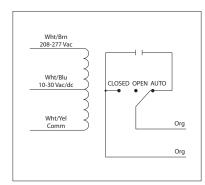
RIBU1S

Enclosed Relay 10 Amp SPST-N/O + Override with 10-30 Vac/dc/120 Vac Coil



RIBH1S

Enclosed Relay 10 Amp SPST-N/O + Override with 10-30 Vac/dc/208-277 Vac Coil













SPECIFICATIONS

Relays & Contact Type: One (1) SPST Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: LED On = Activated

Dimensions: 2.30" x 3.20" x 1.80" with .50" NPT nipple

Wires: 16", 600V Rated

Approvals: UL Listed, UL916, UL864, C-UL California State Fire Marshal, CE, RoHS

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: Yes Override Switch: Yes

Contact Ratings:

10 Amp Resistive @ 277 Vac
480 VA Pilot Duty @ 277 Vac
480 VA Ballast @ 277 Vac
480 VA Ballast @ 277 Vac
Not rated for Electronic Ballast
600 Watt Tungsten @ 120 Vac (N/O)
240 Watt Tungsten @ 120 Vac (N/C)
1/3 HP @ 120-240 Vac (N/O)
1/6 HP @ 120-240 Vac (N/C)
1/4 HP @ 277 Vac (N/O)
1/8 HP @ 277 Vac (N/C)

Coil Voltage Input:

10-30 Vac/dc ; 120 Vac ; 50-60 Hz (RIBU1S) 10-30 Vac/dc ; 208-277 Vac ; 50-60 Hz (RIBH1S)

Drop Out = 2.1 Vac / 2.8 Vdc Pull In = 9 Vac / 10 Vdc

Coil Current:

33 mA @ 10 Vac 13 mA @ 10 Vdc 35 mA @ 12 Vac 15 mA @ 12 Vdc 46 mA @ 24 Vac 55 mA @ 30 Vac 20 mA @ 30 Vdc 28 mA @ 120 Vac (RIBUTS) 39 mA @ 208-277 Vac (RIBHTS)

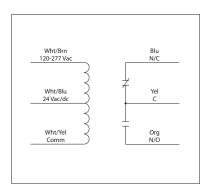
Notes:

• Order Normally Closed by adding "-NC" to end of model number

10 AMP PILOT CONTROL RELAYS

RIB2421C

Enclosed Relay 10 Amp SPDT with 24 Vac/dc/120-277 Vac Coil







SPECIFICATIONS

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: LED On = Activated

Dimensions: 1.70" x 2.80" x 1.50" with .50" NPT nipple

Wires: 16", 600V Rated

Approvals: UL Listed, UL916, UL864, C-UL

California State Fire Marshal, CE, RoHS Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No Override Switch: No

Contact Ratings:

C300 Pilot Duty

10 Amp General Use @ 277 Vac 10 Amp Resistive @ 30 Vdc (N/O) 7 Amp Resistive @ 30 Vdc (N/C) 1/2 HP @ 125 Vac 1 HP @ 250 Vac 1/4 HP @ 277 Vac

Coil Current:

66 mA @ 24 Vac 38 mA @ 24 Vdc 40 mA @ 120-277 Vac

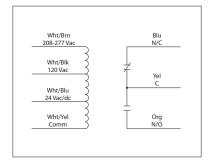
Coil Voltage Input:

24 Vac/dc; 120-277 Vac; 50-60 Hz Drop Out = 3 Vac / 3.8 Vdc Pull In = 20 Vac / 20 Vdc

20 AMP POWER CONTROL RELAYS

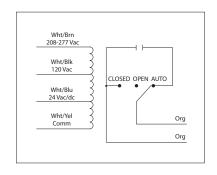
RIB2421B

Enclosed Relay 20 Amp with 24 Vac/dc/208-277 Vac/120 Vac Coil



RIB2421SB

Enclosed Relay 20 Amp + Override with 24 Vac/dc/208-277 Vac/120 Vac Coil















GREAT SERVICE TRUCK RELAYONE RELAY COVERS MOST APPLICATIONS

SPECIFICATIONS

Relays & Contact Type: One (1) SPDT Continuous Duty Coil (RIB2421B)

One (1) SPST Continuous Duty Coil (RIB2421SB) **Expected Relay Life:** 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 18ms

Relay Status: LED On = Activated

 $\textbf{Dimensions:} \ \ 2.30\text{''} \, x \, 3.20\text{''} \, x \, 1.80\text{''} \, with \, .50\text{''} \, NPT \, Nipple$

Wires: 16", 600V Rated
Approvals: UL Listed, UL916, UL864, C-UL

California State Fire Marshal, CE, RoHS

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No

Override Switch: No (RIB2421B)

Yes (RIB2421SB)

Contact Ratings (RIB2421B):

20 Amp Resistive @ 277 Vac 5 Amp Resistive @ 480 Vac

20 Amp Ballast @ 277 Vac

16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O)

770 VA Pilot Duty @ 120 Vac 1,110 VA Pilot Duty @ 277 Vac

2 HP @ 277 Vac 1 HP @ 120 Vac

Coil Current:

83 mA @ 24 Vac 47 mA @ 120 Vac 69 mA @ 208-277 Vac

47 mA @ 30 Vdc

Coil Voltage Input:

24 Vac/dc; 208-277 Vac; 120 Vac; 50-60 Hz Drop Out = 2.1 Vac / 3.8 Vdc Pull In = 18 Vac / 22 Vdc

Contact Ratings (RIB2421SB):

20 Amp Resistive @ 277 Vac
20 Amp Ballast @ 277 Vac (N/O)
10 Amp Ballast @ 277 Vac (N/C)
Not rated for Electronic Ballast
10 Amp Tungsten @ 120 Vac (N/O)
770 VA Pilot Duty @ 120 Vac
1,110 VA Pilot Duty @ 277 Vac
2 HP @ 277 Vac
1 HP @ 120 Vac

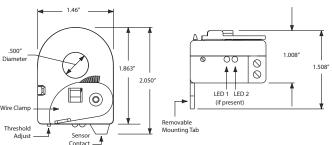
Notes:

 Order Normally Closed by adding "-NC" to end of model number (RIB2421SB)

AC CURRENT SWITCHES

RIBXK Series

Enclosed Self-Powered Solid Core AC Sensors





Wire Being Monitored

Wht/Yel

Wht/Ye



Wire Being Monitored









SPECIFICATIONS

FUNCTIONAL DEVICES CERTIFIED FOR USE WITH ECMs

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, UL864, C-UL, California State Fire Marshal, CE, RoHS

Mounting/Installation: Removable mounting tab provided. The wire clamp locks against the

wire being monitored, securing the unit in place.

Sensor Contact Output: Current below threshold: Open ; Current above threshold: Closed

Sensor Contact:

- Solid State Contact
- · When sensor contact is off (open), leakage <30 uA @ 30Vac/dc
- When sensor contact is on (closed), voltage drop
- < .3 Vac/dc @ .1 Amp < 1.6 Vac/dc @ .4 Amp

RIBXK SERIES

Product Selection Guide. For full product information, see our website.

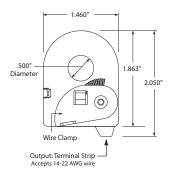
MODEL#	(II)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR CONTACT TERMINATION
RIBXKF	•	.25-150 A	Solid	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads
RIBXKTF	•	.25-150 A	Solid	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire
RIBXKA	• .50-150 A Solid Adjustable Solid State Switch SPS		Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		
RIBXKTA	•	.50-150 A	Solid	Adjustable	Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire

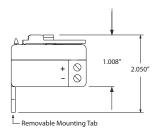
(IL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

ACTRANSDUCERS

RIBXKTV Series

Enclosed Self-Powered Solid Core Current to DC Transducers

















SPECIFICATIONS

Operating Temperature: $-30 \text{ to } 140^{\circ} \text{ F}$

Humidity Range: 5 to 95% (noncondensing)

Accuracy: 96.8% Full Scale

Loading: RIBXKTV5-10, 1% Error @ 180 kΩ

RIBXKTV5-20, 1% Error @ 90 k Ω RIBXKTV5-50, 1% Error @ 40 kΩ RIBXKTV5-100, 1% Error @ 15 kΩ Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, UL864, California State Fire Marshal,

C-UL, CE, RoHS

Mounting/Installation: Removable mounting tab provided. The wire clamp

locks against the wire being monitored, securing the

unit in place.

Sensor Type: Solid core with voltage output



Product Selection Guide. For full product information, see our website.

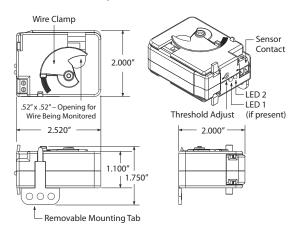
MODEL#	(h)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TERMINATION	SENSOR OUTPUT
RIBXKTV5-10	•	0-10 A	Solid	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc
RIBXKTV5-20	•	0-20 A	Solid	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc
RIBXKTV5-50	•	0-50 A	Solid	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc
RIBXKTV5-100	•	0-100 A	Solid	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc

(IL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

AC CURRENT SWITCHES

RIBXG Series

Enclosed Self-Powered Split Core AC Sensors





Wire Being Monitored



8











FUNCTIONAL DEVICES CERTIFIED FOR USE WITH ECMs

Operating Temperature: $-30 \text{ to } 140^{\circ} \text{ F}$

Humidity Range: 5 to 95% (noncondensing)

Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, UL864, C-UL,

California State Fire Marshal, CE, RoHS

Mounting/Installation: Removable mounting tab provided. The

wire clamp locks against the wire being monitored, securing the unit in place.

Sensor Contact Status: Current below threshold: Open

Current above threshold: Closed

Sensor Contact:

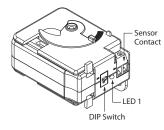
- Solid State Contact
- When sensor contact is off (open), leakage <30 uA @ 30Vac/dc
- When sensor contact is on (closed), voltage drop

Wht/Ye

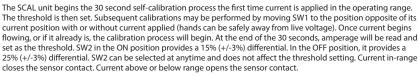
Wht/Yel

<.3 Vac/dc @ .1 Amp < 1.6 Vac/dc @ .4 Amp

SELF-CALIBRATING AC SWITCHES (Models with -SCAL Suffix)



RIBXG-SCAL	LED INDICATORS
LED Off	No Current
Two Winks	Current Below Range
Three Winks	Current In Range
Four Winks	Current Above Range
Continuous Winks	Calibration in Progress



Example: With a current of 10 amps set as the threshold and a 15% differential, sensor contact will be closed between 8.5 amps and 11.5 amps and open outside of this range. A small amount of hysteresis is provided to prevent dithering near the differential limits.













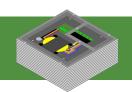


RIBXG SERIES

Product Selection Guide. For full product information, see our website.

MODEL#	(UL)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR CONTACT TERMINATION
RIBXGF	•	.35-150 A	Split	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads
RIBXGFL	•	.75-150 A	Split	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads
RIBXGTF	•	.35-150 A	Split	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire
RIBXGTFL	•	.75-150 A	Split	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire
RIBXGA	•	.75-150 A	Split	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads
RIBXGTA	•	.75-150 A	Split	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire
RIBXGA-SCAL	•	3-150 A	Split	Self-Calibrating	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads
RIBXGTA-SCAL	•	3-150 A	Split	Self-Calibrating	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire

(4) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

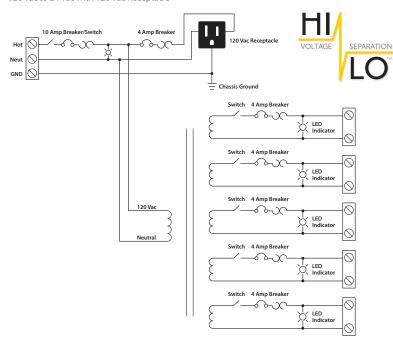


POWER SUPPLIES

AC POWER SUPPLY

PSH500AB10-LVC

Enclosed 500VA Power Supply, High/Low Voltage Separation with Five 100VA Class 2 Outputs, 120 Vac to 24 Vac with 120 Vac Receptacle



















SPECIFICATIONS

Transformer: One (1) 500 VA Over Current Protection: Circuit Breaker

Primary: 120 Vac Frequency: 50/60 Hz

Main Breaker ON/OFF: Switch / Breaker (10 Amp)

(Kills power to entire unit: 1 Outlet & Transformer)

Approvals: Class 2 (UL Approved UL5085-3), UL916, C-UL, CE, RoHS

Dimensions: 12.125" x 12.125" x 6.000"

Housing: NEMA1 Metal Enclosure with

high/low separation

5 Secondaries:

24 Vac, with LED Indicators 4 Amp breaker for each output

24 Vac ON/OFF:

On / Off Switch & Breaker

120 Vac Finger-Safe Terminals, 8-18 AWG

5 Ungrounded, Isolated, 100 VA Class 2, 24 Vac Outputs. Removable Terminals accept16-22 AWG wire.

Ambient Temperature Derating:

4A up to 40° C; 3A up to 50° C; 2A up to 55° C (When All 5 Outputs Operated Simultaneously) Standby Wattage:

48.515 W @ 120 Vac

Full Load Primary Current:

4.66 A @ 120 Vac

Secondary Output Voltage vs. Load:

24.0 V @ 1 Amp

23.0 V @ 2 Amp

21.8 V @ 3 Amp

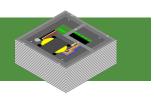
21.1 V @ 4 Amp

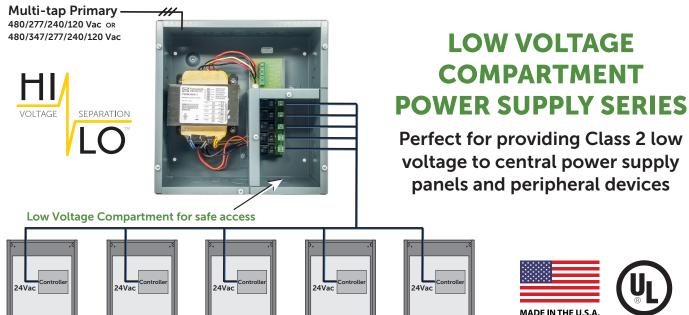
• When all 5 outputs operated simultaneously, at room temperature

Notes:

• 4A (Breaker protected) Convenience Receptacle Provided

POWER SUPPLIES





Eliminate high voltage in your control panel and the need for personal protective equipment (PPE) by using our Low Voltage Compartment Power Supplies. This series of products has a separate wiring compartment (with removable cover) to safely access the removable terminal blocks.

TCP-4

TCP-5

Product Features

TCP-1

- Three or five isolated 100 VA Class 2, 24 Vac outputs with 4 Amp Breaker and individual On/Off switches. Also available with five 40 VA outputs (See chart below)
- NEMA 1 metal enclosure has separate low voltage compartment with cover
- Multi-tap primaries: 480/277/240/120 Vac or 480/347/277/240/120 Vac
- Seismic Certification of Equipment and Components: OSP-0201-10

TCP-3

• UL916 & Class 2 (UL Approved UL5085-3)



LOW VOLTAGE COMPARTMENT POWER SUPPLIES Product Selection Guide. For full product information, see our website.

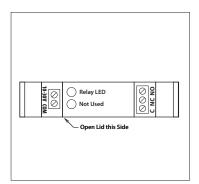
MODEL#	(L)	TRANSFORMER(S)	INPUT POWER	HEIGHT	WIDTH	DEPTH	OUTLET#	OUTPUT	CONFIGURATION	HOUSING STYLE
PSH500A-LVC	•	500 VA (five 100 VA Outputs)	480/277/240/120 Vac	12.125″	12.125″	6.000″		5 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment
PSH300A-LVC	•	300 VA (three 100 VA Outputs)	480/277/240/120 Vac	12.125″	12.125″	6.000″		3 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment
PSH200A-LVC	•	200 VA (five 40 VA Outputs)	480/347/277/240/120 Vac	12.125″	12.125″	6.000″		5 x 2 Amp	Terminals	Enclosed with Low Voltage Compartment
PSH500AB10-LVC	•	500 VA (five 100 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	5 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment
PSH300AB10-LVC	•	300 VA (three 100 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	3 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment
PSH200AB10-LVC	•	200 VA (five 40 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	5 x 2 Amp	Terminals	Enclosed with Low Voltage Compartment

(UL Approved UL5085-3): UL916 Energy Management USA & Canada

= Convenience outlet has 4 Amp Breaker

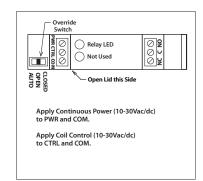
RIBRL1C

DIN Mount Relay 10 Amp SPDT with 10-30 Vac/dc Coil



RIBRL1S

DIN Mount Relay 10 Amp SPDT + Override 10-30 Vac/dc Coil















DIN Rail Perforated 35mm x 7.5mm x 1m



ADIN35ES Pair of End Stops for 35mm DIN Rail

Specifications

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20mS

Relay Status: LED On = Activated **Dimensions:** 3.88" x 2.76" x 0.78" Terminal Strip: 14-22 AWG wire

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Gold Flash: Yes Replacement Relay: ARL1C

Accessories: ADIN35, ADIN35ES

Contact Ratings:

10 Amp Resistive @ 277 Vac 10 Amp Resistive @ 28 Vdc 480 VA Pilot Duty @ 240/277 Vac 480 VA Ballast @ 277 Vac Not rated for Electronic Ballast 600 Watt Tungsten @ 120 Vac (N/O) 240 Watt Tungsten @ 120 Vac (N/C) 1/3 HP @ 120-240 Vac (N/O)

1/6 HP @ 120-240 Vac (N/C) 1/4 HP @ 277 Vac (N/O) 1/8 HP @ 277 Vac (N/C)

Coil Current:

13 mA @ 10 Vdc 33 mA @ 10 Vac 35 mA @ 12 Vac 15 mA @ 12 Vdc 46 mA @ 24 Vac 18 mA @ 24 Vdc 20 mA @ 30 Vdc 55 mA @ 30 Vac

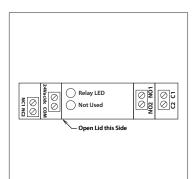
Power and Control Voltage:

10-30 Vac/dc; 50-60 Hz Drop Out = 2.1 Vac / 2.8 VdcPull In = 9 Vac / 10 Vdc

10 AMP PILOT CONTROL RELAYS

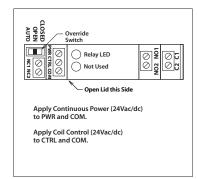
RIBR24D

DIN Mount Relay 10 Amp DPDT with 24 Vac/dc Coil



RIBR24SD

DIN Mount Relay 10 Amp DPDT + Override 24 Vac/dc Coil













Models ADIN35 and ADIN35ES sold separately. See data sheet on website for more product information.



DIN Rail Perforated 35mm x 7.5mm x 1m



ADIN35ES Pair of End Stops for 35mm DIN Rail

Specifications

Relays & Contact Type: One (1) DPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 8mS

Relay Status: LED On = Activated **Dimensions:** 3.88" x 2.76" x 0.78" Terminal Strip: 14-22 AWG wire

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Replacement Relay: AR24D

Accessories: ADIN35, ADIN35ES

Contact Ratings:

10 Amp Resistive @ 30 Vdc 10 Amp General Use @ 277 Vac 1/2 HP @ 120-240 Vac (N/O) 1/3 HP @ 120-240 Vac (N/C) B300 Pilot Duty

120Vac 30A Make 3A Break (360 VA) 240Vac 15A Make 1.5A Break (360 VA) 208Vac 17.3A Make 1.73A Break (360 VA) 277Vac 13A Make 1.3A Break (360 VA) 24Vac 30A Make 5A Break (120VA) 5A Max

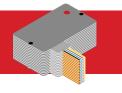
Power and Control Current:

20 mA @ 20 Vdc 24 mA @ 18 Vac 32 mA @ 24 Vac 24 mA @ 24 Vdc 40 mA @ 30 Vac 36 mA @ 24 Vdc

Coil Voltage Input:

24 Vac/dc; 50-60 Hz Drop Out = 3 Vac / 3.8 VdcPull In = 18 Vac / 20 Vdc

RELAYS



DIN RAIL MOUNT RELAY IN A BOX®





Product Features

- Removable socket relay
- Prepackaged for easy installation
- 10 Amp contact rating
- 10-30 Vac/dc or 24 Vac/dc coil voltage
- Models available with override switch
- Current sensor models available
- UL916 Listed and Made in the USA





- Suitable for a wide variety of applications
- Multi-coil voltages eliminate need to stock multiple equivalent relays

• Suitable fo

DIN RAIL MOUNT RELAYS

Product Selection Guide. For full product information, see our website.

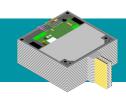
		COIL VOLTAGE		CONTACT RATINGS				
MODEL#	(I)	AC/DC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^
RIBRL1C	• 1	10-30	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240/277 Vac		DIN Rail
RIBRL1S	• 1	10-30	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240/277 Vac	1#	DIN Rail
RIBR24D	• 1	24	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120-240 Vac (N/O)	B300		DIN Rail
RIBR24SD	• 1	24	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120-240 Vac (N/0)	B300	1#	DIN Rail

DIN Rail (ADIN35) and pair of end stops (ADIN35ES) sold separately.

UL 1 = UL Listed: UL916 Energy Management; USA & Canada

= Coil side relay override (requires unit to be powered)

^ = Track mount sold separately



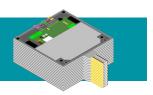
NETWORK COMPATIBLE DEVICES



See the diagrams below for examples of common uses.

RIBTW2401B-BC, RIBTW2402B-BC - DO → Pump or Fan Start/Stop MS/TP -- DI → Status RIBMNWX2401B-BC, RIBTWX2401B-BC, RIBMNWX2402B-BC, RIBTWX2402B-BC — DO → Pump or Fan Start/Stop – DI → Status, Flow Switch MS/TP -— INTERNAL CURRENT SENSOR RIBMNW24B-BCAI, RIBTW24B-BCAI — DO — Exhaust Fan Start/Stop MS/TP -- DI (2) -----> Status - AI → Room Temperature **RIBTW24B-BCAO** - DO → Pump or Fan Start/Stop DI → Status, Flow Switch AI → Water Temperature AO → Valve Position MS/TP -RIBMNWD12-BCDI - DI (12) -----> Fan Wall Status MS/TP — **RIB** or Kitchen Hood Status **RIBMNWD12-BC** - **DI (10)** - → Pump Status MS/TP -- ACM (2) → Pulse Meter RIBMW24B-44-BC - DO (4) → Pump or Fan Start/Stop MS/TP -**DI (4)** → Status

NETWORK COMPATIBLE DEVICES



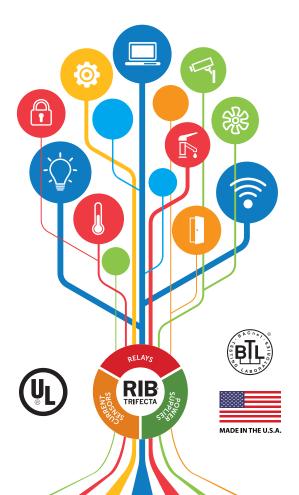
PREPACKAGED AS BACnet DEVICES MAKE THE JOB EASY.

Use when a few more control points are needed and a multi-output controller is too much for the job.









Features

- MS/TP network
- One binary output (20 Amp)
- One binary input (dry contact)
- Field addressable
- DIP switch selectable baud rate
- Power inputs: 24 Vac/dc or 120 / 208-277 Vac
- Enclosed or track mount models
- UL Listed
- BTL Certified
- Made in the USA

Several Devices with Varying Options

- Relays
- Relay & current sensor combinations
- Expansion module
- Analog input
- Analog output
- Thermistor input
- Accumulator input
- 600 VA UPS power supply kit
- Fan safety alarm circuit / general purpose logic board

RIBMNW24B-BCAI

2.75" Track Mount BACnet® MS/TP Network Relay Device with Binary Output Set Point Function; One Binary Output (20 Amp Relay SPDT + Override); Two Binary Inputs (Dry Contact, Class 2); One Analog Input (T2/T3 Thermistor / 0-5 Vdc / 0-10 Vdc); 24 Vac/dc Power Input; Optional End of Line Resistor (EOL) Included.

^To select Al for Thermistor T2 or T3 input Install jumper

Analog Type Jumpers

Not defined

T3 Thermistor Analog IN 5V or 10V

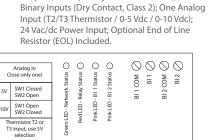
nect Jumper for EOL terminating resisto

OFF

ON OFF

RIBTW24B-BCAI

Enclosed BACnet® MS/TP Network Relay Device with Binary Output Set Point Function; One Binary Output (20 Amp Relay SPDT + Override); Two Binary Inputs (Dry Contact, Class 2); One Analog Input (T2/T3 Thermistor / 0-5 Vdc / 0-10 Vdc); 24 Vac/dc Power Input; Optional End of Line















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SPECIFICATIONS

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REF (B(+) (A(-) (

MS/TP

Resistor jump

See EOL

RELAY CONTROL BAUD RATE ∞ I∼ LSB

™ MSB

Relays & Contact Type: One (1) SPDT Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 18ms Network Communication: Green LED

Relay Status: Red LED On = Activated BI1 Status: Pink LED On = Activated BI2 Status: Pink LED On = Activated

Dimensions: 6.25" x 2.75" x 1.75" (RIBMNW24B-BCAI)

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₹

A1 COM

₹2

Therm.

4.28" x 7.00" x 2.00"

with .75" NPT Nipple (RIBTW24B-BCAI)

Track Mount: MT212-6 Mounting Track Provided Approvals: UL Listed, UL916, C-UL, CE, RoHS Housing Rating: UL Listed, NEMA 1, C-UL, CE Approved, UL Accepted for Use in Plenum.

Also available NEMA 4 / 4X

Gold Flash: No

Relay Override Switch: DIP Switch Control (See Bulletin B1243)

Network Media: Twisted Pair 22-24AWG, shielded

recommended

Terminations: Functional Devices product installed at both ends of the MS/TP network - Use 120 Ω end of line resistors. All other cases – Fol-

low instructions from the device installed at the end of the

MS/TP network.

Polarity: Network is polarity sensitive

Baud Rate: 9600, 19200, 38400, 57600, 76800, 115200

(DIP Switch Selectable - See Bulletin B1243)

Contact Ratings:

24 Vac/dv

0

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac 2 HP @ 277 Vac

0

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Power Input Ratings:

81 mA @ 24 Vdc 111 mA @ 24 Vac

1 HP @ 120 Vac

• PIC Statement available on website.

http://www.functionaldevices.com/ downloads/pics/BACnet-BCAI PICS.pdf

- Order NEMA 4 housing by adding "-N4" to end of model number. (RIBTW24B-BCAI-N4)
- Order with grey lid by adding "-GY" to end of model number. (RIBTW24B-BCAI-GY)
- Order NEMA 4 housing with grey lid by adding "-N4-GY" to end of model number. (RIBTW24B-BCAI-N4-GY)
- For all versions, raw analog default settings are 0 and 1023 (real), respectively. Units default to 95 (no units). For Set Point Functiona settings, See Bulletin B1243
- When connecting 24 Vac to both the RIB(s) and a half-wave device, damage to device can occur. Option 1: Use separate transformers for each device. Option 2: Add diode between devices, (See Bulletin B1243 for diagram)

BACnet® Details:

- MS/TP Address & Baud Rate must be set prior to power up via DIP switches
- Device ID will default to 277XXX where XXX is the MS/TP Address. Examples:

MS/TP Address - 004 Device ID - 277004

MS/TP Address - 121 Device ID - 277121

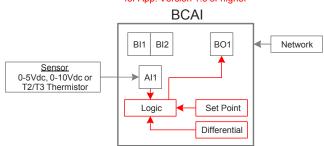
- Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique.)
- This model utilizes: BO 1 (Relay output), BI 1 (Dry contact binary input), BI 2 (Dry contact binary input), Al 1 (Analog input), AV1 (Set Point), AV2 (Differential), BV1 (Function Enable), BV2 (Function Mode), BV3 (Function Status)
- Device Instance changed via Object Identifier Property of Device Object

Thermistor Specifications:

- Thermistor Type 2 (T2) Precon 10 K @ 77°F (25°C) PN ST-R24, Model 24, (or equivalent.) Thermistor Type 3 (T3) Precon 10 K @ 77°F (25°C) Model 3, (or equivalent.) Thermistor not included.
- For both T2 and T3, MIN_PRES_VAL must be set to -36 (real value) and MAX_PRES_VAL must be set to 66.3 (real value) for Celcius. For Fahrenheit, MIN PRES VAL must be set to -32.8 (real value) and MAX_PRES_VAL must be set to 151.34 (real value).
- -35 to 10°C range in 1° steps / -31 to 50°F range in 1.8° steps 10 to 32°C range in 0.1° steps / 50 to 90°F range in 0.18° steps 32 to 100°C range in 1° steps / 90 to 212°F range in 1.8° steps

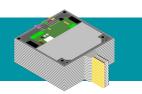
Set Point Function

for App. Version 1.5 or higher



Set Point Function must be enabled via the Network for logic to execute. Once configured, the function will continue to operate even if communication is lost (see Bulletin B1243 for setup).

NETWORK COMPATIBLE DEVICES



LOCAL LOGIC ASPRA BACnet NETWORK DEVICE

WITH SET POINT FUNCTION FOR BINARY OUTPUT



RIBTW24B-BCAI shown without cover



RIBMNW24B-BCAI

Features

- BACnet® MS/TP network
- One binary output: 20 Amp SPDT + override
- Two binary inputs: Dry contact
- One analog input: Thermistor T2 or T3, 0-5Vdc, 0-10Vdc
- 24 Vac/dc power
- NEMA 1 enclosure, available in NEMA 4 enclosure
- UL Listed
- Made in the USA

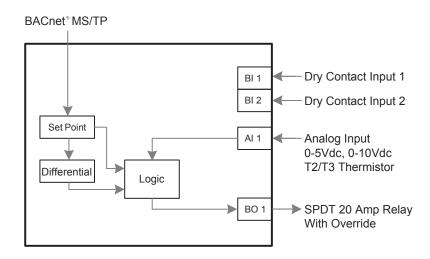




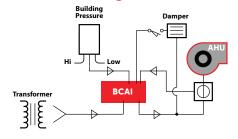


Designed for Remote/Local Applications

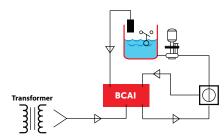
Cabinet unit heater, cooler/freezer, exhaust fan, fluid level - sump pump, building pressure, etc.



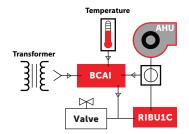
Building Pressure



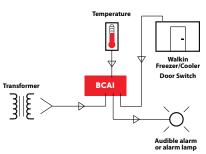
Fluid Level - Sump Pump



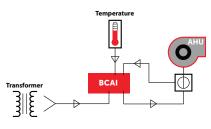
Cabinet Unit Heater



Cooler/Freezer

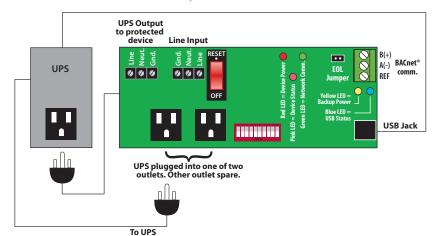


Exhaust Fan



PSH600-UPS-BC

Enclosed BACnet® Network 600 VA UPS Backup Power Control Center













SPECIFICATIONS

BOARD AND ENCLOSURE:

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing) Indicators: Device Power: Red LED

Device Status: Pink LED Network Communication: Green LED Backup Power: Yellow LED USB Status: Blue LED

Main Breaker ON/OFF: Switch / Breaker (10 Amp)

Dimensions: 12" x 16" x 6" **Track Mount:** 2.750" x 8.000"

MT212-8N Mounting Track Included

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Line Input: 120Vac, 10A(max) Convenience Receptacles: 120Vac, 10A(max combined)

Information provided over BACnet® network can be used to schedule "predictive maintenance" such as UPS battery replacement, etc.

Power Input Rating:

25mA @ 120Vac

Network Media:

Twisted Pair 22-24 AWG, shielded recommended (MS/TP) USB A/B (device to UPS, included)

Terminations:

Functional Devices product installed at both ends of the MS/TP network - Use 120 Ohm End of Line Resistors. All other cases follow instructions from the device installed at the end of the MS/TP network.

Polarity:

Network is polarity sensitive.

Baud Rate:

9600, 192000, 38400, 76800, 115200 (DIP Switch Selectable)

	OIP SWITCHE	BAUD RATE	
8	9	10	
0	0	0	9600
0	0	1	19200
0	1	0	38400
0	1	1	57600
1	0	0	76800
1	0	1	115200

* 0 = Open : 1 = Closed All other combinations = 9600 baud

- Circuit breaker for short-circuit protection.
- 14/3 Line Cord included (3').

BACnet® Details:

- MS/TP Address & Baud Rate must be set prior to power up via DIP switches.
- Device ID will default to 277XXX where XXX is the MS/TP Address.

Examples:

MS/TP Address - 004 Device ID - 277004 MS/TP Address - 121 Device ID - 277121

- Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique.)
- Devices Instance changed via Object Identifier Property of Device Object.
- · Status of UPS connection, Battery run time, line power ,UPS load (VA and %), and battery capacity can be read from BACnet network.

UPS:

UPS: 600VA

Backup Time: 2.5 Min. @ Full 600 VA Load 10.2 Min. @ 1/2 Load

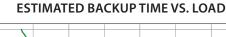
Input: 120 Vac, 12 Amp Output: 120 Vac, 4.6 Amp Max Load: 330 Watt

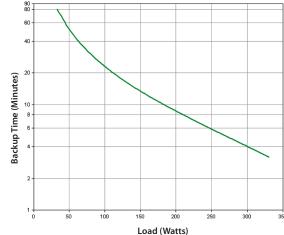
Frequency: 50/60 Hz Temperature Rating of UPS: 32 to 104° F **UPS Transfer Time:** 6ms

Approvals: UL Listed, UL1778

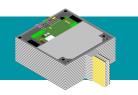
Notes:

- Average battery life: 3-5 years depending on the number of discharge cycles and environmental temperature
- This model is not designed to notify user of battery failure.
- This model is designed to work exclusively with Functional Devices Model UPS600
- UPS may change based on quality and availability.





NETWORK COMPATIBLE DEVICES



ASHRAE BACnet COMPATIBLE 600va UPS POWER SUPPLY

Provides power to your critical controller in hospitals, laboratories, and research centers in the event of a power outage.

600VA Commercial UPS
NEMA 1 Enclosure
BACnet® Compatible Interface Board



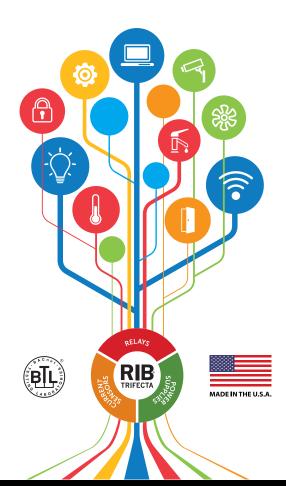
PSH600-UPS-BC

Features

- Hardwire line voltage to UPS
- Hardwire UPS to final load
- Clean & neat use of a UPS, keeping equipment and cords tucked inside the enclosure
- Extra 120 Vac outlet & 10 Amp circuit breaker on/off switch for testing functionality of UPS

ASHRAE BACnet Objects

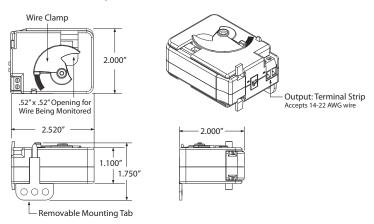
 Line or UPS power, UPS percent load, UPS battery capacity, VA load, USB connection, and remaining battery time



ACTRANSDUCER

RIBXGTV5

Enclosed Self-Powered Spilt Core Multi-Range (0-20A, 50A, or 100A) AC Transducer with 0-5Vdc Terminal Output





SPECIFICATIONS

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Accuracy: 98.3% Full Scale

Loading: RIBXGTV5, (0-20 Amp), 5% Error @ $58 \text{ k}\Omega$

RIBXGTV5, (0-50 Amp), 5% Error @ 31.3 $k\Omega$ RIBXGTV5, (0-100 Amp), 5% Error @ 12.3 kΩ Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, UL864, California

State Fire Marshal, C-UL, CE, RoHS Mounting/Installation: Removable mounting tab provided.

The wire clamp locks against the wire being monitored, securing the unit

in place.

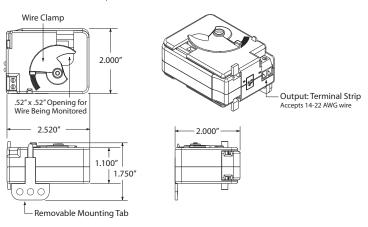
Sensor Type: Split core with voltage output

DIP SWITCH									
1	2	Sensing Range							
OFF	OFF	0-20 Amp							
OFF	ON	0-50 Amp							
ON	OFF	0-100 Amp							

ACTRANSDUCER

RIBXGTV10

Enclosed Self-Powered Spilt Core Multi-Range (0-20A, 50A, or 100A) AC Transducer with 0-10Vdc Terminal Output





SPECIFICATIONS

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Accuracy: 98.8% Full Scale

Loading: RIBXGTV10, (0-20 Amp), 5% Error @ $60.4 \text{ k}\Omega$

RIBXGTV10, (0-50 Amp), 5% Error @ 25.24 kΩ RIBXGTV10, (0-100 Amp), 5% Error @ 13.65 kΩ

Max Sense Voltage: 600 Vac

Approvals: UL Listed, UL916, UL864, California

State Fire Marshal, C-UL, CE, RoHS Mounting/Installation: Removable mounting tab provided.

The wire clamp locks against the wire

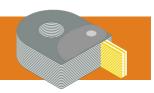
being monitored, securing the unit

in place.

Sensor Type: Split core with voltage output



CURRENT TRANSDUCERS



USE OUR MULTI-RANGE SPLIT CORE CURRENT TRANSDUCERS TO CALCULATE ENERGY USAGE USING AMPERAGE FEEDBACK.

0-5 Vdc or 0-10 Vdc terminal output DIP switch selectable sensing ranges







Small Size

- 2.00" x 2.52" x 1.10"
- Easily fits inside an enclosure with room to spare
- Includes foot mounting insert

Unique Core Opening

- Slide opening (vs. hinged opening)
- One inch of extra space allows for core to fully extend
- Monitor wires up to a half-inch in diameter

Ratcheting Wire Clamp

- Ratcheting clamp tightens around wire
- Clamp sensors on wires where foot mounting is not ideal









Foot mounting insert included

Slide o	pening	helps	with
installat	ion in s	small s	paces

Ratcheting clamp tightens around wire

CURRENT TRANSDUCERS

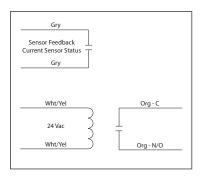
Product Selection Guide. For full product information, see our website.

MODEL#	(L)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TERMINATION	SENSOR OUTPUT
RIBXGTV5	•	0-20 A, 0-50 A, 0-100 A	Split	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc
RIBXGTV10	•	0-20 A, 0-50 A, 0-100 A	Split	Analog	Terminal Strip, Accepts #14-22 AWG Wire	0-10 Vdc

(4) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

RIBHX24BF

Enclosed 20 Amp SPST-N/O Relay/AC Fixed Current Sensor Combination, with 24 Vac Coil







RIBHX24BF-RD Red housing

RIBHX24BF-N4

NEMA 4X

housing,

UL508 only









SPECIFICATIONS

FUNCTIONAL DEVICES CERTIFIED FOR USE WITH ECMs

Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: Red LED On = Activated

Current Sensor Status: Pink LED On = Current Over Trip Point

(0.25 Amp)

Dimensions: 1.70" x 2.80" x 1.50" with .50" NPT nipple

Wire Length: 16", 600V Rated

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No

Sensor Type: Internal, with contact status

Sensor Threshold: Fixed, .25 Amp Sensor Range: .25-20 Amps

Sensor Feedback Output: Solid State Contact 30 Vac/dc, 100 mA

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac

16 Amp Electronic Ballast @ 277 Vac (N/O) 10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac

Coil Voltage Input:

24 Vac; 50-60 Hz

Drop Out = 3 Vac

Pull In = 18 Vac

2 HP @ 277 Vac 1 HP @ 120 Vac

Coil Current:

128 mA @ 24 Vac 71 mA @ 30 Vdc

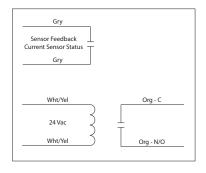
- · When current sensor status is off (open), leakage <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop < .3 Vac/dc @ .1 Amp
- < 1.6 Vac/dc @ .4 Amp

Sensor Contact:

RELAY & AC CURRENT SWITCH COMBOS

RIBHX24BA

Enclosed 20 Amp SPST-N/O Relay/AC Adjustable Current Sensor combination, with 24 Vac/dc coil







RIBHX24BA-RD Red housing









FUNCTIONAL DEVICES CERTIFIED FOR USE WITH ECMs

Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

SPECIFICATIONS

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: Red or Green LED On = Activated Current Sensor Status: Green LED On = Current Over Trip Point

Adjustable

Dimensions: 1.70" x 2.80" x 1.50" with .50" NPT nipple

Wire Length: 16", 600V Rated

Approvals: UL Listed, UL916, C-UL, CE, RoHS Housing Rating: UL Accepted for Use in Plenum, NEMA 1

Gold Flash: No

Sensor Type: Internal, with contact status Sensor Threshold: Adjustable, .25 Amp Sensor Range: .25-20 Amps

Sensor Feedback Output: Solid State Contact 30 Vac/dc, 100 mA

Hysteresis Solid

Contact Ratings:

20 Amp Resistive @ 277 Vac 20 Amp Ballast @ 277 Vac 16 Amp Electronic Ballast @ 277 Vac (N/O)

10 Amp Tungsten @ 120 Vac (N/O) 1,110 VA Pilot Duty @ 277 Vac 770 VA Pilot Duty @ 120 Vac

2 HP @ 277 Vac 1 HP @ 120 Vac

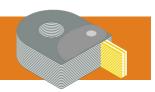
Coil Current:

128 mA @ 24 Vac 71 mA @ 30 Vdc

Coil Voltage Input: 24 Vac; 50-60 Hz Drop Out = 3 Vac Pull In = 18 Vac

Sensor Contact:

- · When current sensor status is off (open), leakage <30 uA @ 30Vac/dc
- When current sensor status is on (closed), voltage drop < .3 Vac/dc @ .1 Amp
- < 1.6 Vac/dc @ .4 Amp



RELAY & CURRENT SENSOR COMBINATIONS

MOUNT OUTSIDE YOUR ENCLOSURES



ADJUSTABLE THRESHOLD



FIXED
THRESHOLD



- Prepackaged with a 20 Amp relay and internal current sensor
- NEMA 1 enclosure approved for plenum spaces
- Nipple mount allows for installation outside of your enclosures
- Adjustable or fixed threshold
- LEDs indicate coil activation & when current is over trip point
- UL Listed
- Made in the USA







MHP4604100AB10

Enclosed Single 100 VA Power Supply with Subpanel: Models MH4600 + SP4604 + PS100AB10

MHP4604100A100AB10

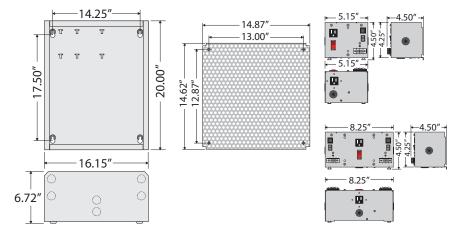
Enclosed Dual 100 VA Power Supply with Subpanel: Models MH4600 + SP4604 + PS100A100AB10















MHP4604100AB10

MHP4604100A100AB10

POWER SUPPLY (PS100AB10)

Transformer: One 100 VA Split-Bobbin

Over Current Protection: Circuit Breaker Frequency: 50/60 Hz

24 Vac ON/OFF: On / Off Switch & Breaker Main Breaker ON/OFF: Switch / Breaker (10 Amp)

(Kills power to entire unit: Outlets, Aux.

Output, & Transformer)*
Total Combined Output 9A

Approvals: Class 2 (UL Approved UL5085-3), UL916,

C-UL, CE, RoHS

Dimensions: 4.500" x 8.625" x 4.500"

Input Wires: Input Power Wires

BLK: 120 Vac WHT: Neutral GRN: Ground

Outlet Wires BLK: 120 Vac WHT: Neutral GRN: Ground

Output Wires: Auxiliary Output

BLU: 120 Vac

Notes:

- Output derating may exceed 20% due to elevated ambient temperature or heat buildup in device over time.
- Design is in accordance with ASCE 7-05 Chapter 13

POWER SUPPLY (PS100A100AB10)

Transformer: Two 100 VA Split-Bobbin

Over Current Protection: Circuit Breaker Frequency: 50/60 Hz

24 Vac ON/OFF: On / Off Switch & Breaker Main Breaker ON/OFF: Switch / Breaker (10 Amp)

(Kills power to entire unit: Outlets, Aux. Output, & Transformer)*

Total Combined Output 9A

Approvals: Class 2 (UL Approved UL5085-3), UL916,

C-UL, CE, RoHS

Dimensions: 4.500" x 8.625" x 4.500"

Input Wires: Input Power Wires

BLK: 120 Vac WHT: Neutral GRN: Ground

Outlet Wires
BLK: 120 Vac
WHT: Neutral
GRN: Ground

Output Wires: Auxiliary Output

BLU: 120 Vac

Notes:

- Output derating may exceed 20% due to elevated ambient temperature or heat buildup in device over time.
- Design is in accordance with ASCE 7-05 Chapter 13

PERFORATED STEEL SUB-PANEL (SP4604)

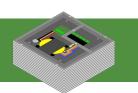
Mounting Area: 217.40" square Approvals: Plenum Rated Dimensions: 14.62" x 14.87"

METAL HOUSING (MH4600)

Construction: 14 Gauge Steel

Cover Type: Reversible Hook Hinge Key Latch Door Approvals: UL Listed, C-UL, CE Approved, RoHS Dimensions: 16.15" (W) x 20.00" (H) x 6.72" (D)

POWER SUPPLIES



MOUNTING YOUR CONTROLLER AND PERIPHERAL DEVICES IS EASY AND CONVENIENT IN

OUR PREPACKAGED SOLUTION

Metal enclosure, power supply, and sub-panel with several options to fit your needs

If you're planning to install a controller and other peripheral devices, it is important to consider where the items will be placed within an enclosure and how they will be powered. We have a line of products that can address both of those needs: the MHP Series. These products include a metal enclosure, power supply and a sub-panel with several prepackaged options to meet your specific needs.

WIDE ENCLOSURE ALLOWS MORE ROOM FOR WIRE WAYS



Wide Enclosure
Single 100 VA Power Supply
Perforated Steel Sub-Panel
MHP4604100AB10

Power Supply

- Enclosed single or dual 100 VA
- 10 Amp on/off circuit breaker switch(es)
- 120 Vac convenience outlets
- 24 Vac output terminal strip(s)
- High/low voltage separation

Enclosure

- Two size choices
- Reversible door with key latch
- Sturdy 14-Gauge steel

- CI | 1.44

Sub-Panel

- Perforated steel or polymetal
- Easily removable for mounting equipment



Narrow Enclosure
Single 100 VA Power Supply
Perforated Steel Sub-Panel
MHP3904100AB10







Narrow Enclosure
Dual 100 VA Power Supply
Polymetal Sub-Panel

MHP3903100A100AB10

PREPACKAGED AC POWER SUPPLY KITS

Product Selection	duide. For	ruit product ii	mormation,	see our	website.

MODEL#	TRANS- FORMER(S)	INPUT POWER	HEIGHT	WIDTH	DEPTH	120 VAC OUTLETS	AUX OUTPUT WIRE	ON/OFF SWITCH	MAIN BREAKER ON INPUT POWER *	SECONDARY CONFIGURATION	METAL HOUSING	SUB-PANEL / TRACK MOUNT
MHP3903100AB10	100 VA	120 Vac	12.500″	24.500″	6.500″	•	•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH3900	SP3803S (Polymetal)
MHP3904100AB10	100 VA	120 Vac	12.500″	24.500"	6.500″	•	•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH3900	SP3804S (Perforated)
MHP4604100AB10	100 VA	120 Vac	16.150″	20.000″	6.720″	•	•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH4600	SP4604 (Perforated)
MHP3903100A100AB10	100 VA, 100 VA	120 Vac	12.500″	24.500"	6.500″	•	•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH3900	SP3803S (Polymetal)
MHP3904100A100AB10	100 VA, 100 VA	120 Vac	12.500″	24.500″	6.500″	•	•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH3900	SP3804S (Perforated)
MHP4604100A100AB10	100 VA, 100 VA	120 Vac	16.150″	20.000"	6.720″		•	•	10 A Switch/Breaker	Ext. Terminal Strip	MH4600	SP4604 (Perforated)

 $[\]star=$ Kills power to entire unit: Outlets, Aux. Output, & Transformer; Total Combined Output 9A







Models shown (L to R) without covers: PSH2C2RB10; PSM2RB10; PSH600-UPS-BC

Uninterruptible Power Supply Kits

- 600 or 850 VA commercial UPS
 - NEMA 1 metal enclosure
 - UPS interface board
- SEACnet compatible model available

POWER CONTROL



UPS POWER SUPPLY SERIES

Our UPS Power Supply Series is perfect for applications in critical environments such as hospitals, laboratories and research & surgery centers. These products keep your critical controller powered on during a loss of normal utility power with the ability to hardwire line voltage to the provided UPS, in addition to hardwiring the UPS to the final load.

Benefits & Features

- Keeps your critical controller on in the case of power loss
- BACnet® compatible model is BTL Certified and includes six objects: Line or UPS power, UPS percent load, UPS battery capacity, VA load, USB connection, and remaining battery time



- Cords tuck inside enclosure for clean & neat use of a UPS
- 600 VA UPS is hot-swappable
- 120 Vac convenience outlet(s) provided
- 10 Amp circuit breaker/switch can be used to test functionality of UPS
- Switch controls line voltage



UPS POWER SUPPLIES

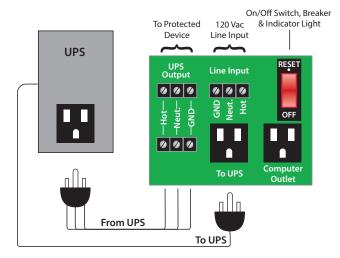
Product Selection Guide. For full product information, see our website
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MODEL#	(II)	STATUS	UPS	CIRCUIT BREAKER	120 VAC OUTLET(S)	EACnet COMPATIBLE	KIT	ENCLOSED	TRACK MOUNT	HEIGHT	WIDTH	DEPTH
PSH600-UPS (Kit)			600 VA	•	•		N/A	•		12.000″	14.000″	6.000″
PSH2RB10	•			•	•		PSH600-UPS	•		12.000″	14.000″	6.000″
PSM2RB10	•			•	•		PSH600-UPS		MT4-4N included	4.000″	3.250″	1.750″
PSH600-UPS-STAT (Kit)		•	600 VA	•	•		N/A	•		12.000″	16.000″	6.000″
PSH2C2RB10	•	•		•	•		PSH600-UPS-STAT	•		12.000″	16.000″	6.000″
PSMN2C2RB10	•	•		•	•		PSH600-UPS-STAT		MT212-6N included	2.750″	6.655″	1.750″
PSH850-UPS-STAT (Kit)		•	850 VA	•	•		N/A	•		14.000″	16.000″	6.000″
PSH2C2RB10-L	•	•		•	•		PSH850-UPS-STAT	•		14.000″	16.000″	6.000″
PSH600-UPS-BC (Kit)		•	600 VA	•	•	•	N/A	•		12.000″	16.000″	6.000″

(U) = UL Listed: UL916 Energy Management; UL Listed Canada

PSH600-UPS

Kit Consisting of Enclosed Power Control Center Model PSH2RB10 (10 Amp Switch / Circuit Breaker, Two (2) 120 Vac Outlets, Terminals, 120 Vac Input) with a 600 VA UPS. (No Status Contacts)











Shown Without Cover

SPECIFICATIONS

UPS

UPS: 600VA

Backup Time: 2.5 Min. @ Full 600 VA Load 10 Min. @ 1/2 Load Power Consumption Up to 3 Amp @120 Vac

Max Load: 330 Watt Frequency: 50/60 Hz Temperature Rating of UPS: 32 to 104° F

UPS Transfer Time: 6ms
Approvals: UL Listed, UL1778

PSH2RB10

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Main Breaker ON/OFF: Switch / Breaker (10 Amp)

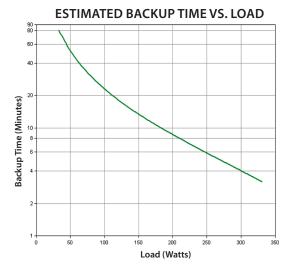
Approvals: UL Listed, UL916, C-UL, CE, RoHS

Dimensions: 12.000" x 14.000" x 6.000"

Metal Housing with Screw Cover

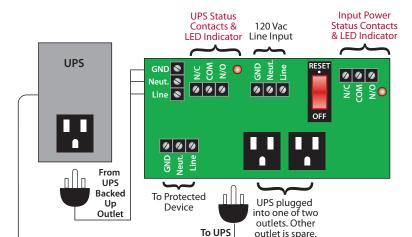
Notes:

- To order without UPS, so that any other commercial UPS with appropriate ratings and within housing space limitations may be used, see model PSH2RB10.
- To order interface board for replacement or for separate use, order model PSM2RB10.
- Average battery life: 3-5 years depending on the number of discharge cycles and environmental temperature
- UPS may change based on quality and availability



PSH600-UPS-STAT

Kit Consisting of Enclosed Power Control Center Model PSH2C2RB10 (10 Amp Switch / Circuit Breaker, Two (2) 120 Vac Outlets, Terminals, 120 Vac Input) with a 600VA UPS. (Status Contacts)











SPECIFICATIONS

<u>UPS</u>

UPS: 600VA

Backup Time: 2.5 Min. @ Full 600 VA Load

10 Min. @ 1/2 Load

Power Consumption Up to 3 Amp @120 Vac

Max Load: 330 Watt Frequency: 50/60 Hz Temperature Rating of UPS: 32 to 104° F

UPS Transfer Time: 6ms
Approvals: UL Listed, UL1778

PSH2C2RB10

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)
Main Breaker ON/OFF: Switch / Breaker (10 Amp)

Approvals: UL Listed, UL916, C-UL, CE, RoHS

Dimensions: 12.000" x 16.000" x 6.000"

Metal Housing with

Line Input Status Contacts and UPS Output Status Contacts Rated:

10 Amp @ 277 Vac General Use 10 Amp @ 30 Vdc (N/O) 7 Amp @ 30 Vdc (N/C) 1/2 HP @ 125 Vac 1/4 HP @ 277 Vac

1000 VA @ 120 Vac Magnetic Ballast (N/C)

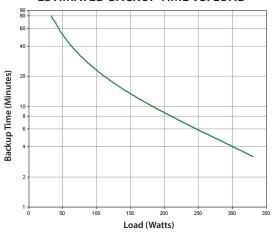
C300 Pilot Duty

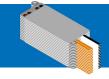
16.8 VA @ 24 Vac Pilot Duty

Notes:

- •To order without UPS, so that any other commercial UPS with appropriate ratings and within housing space limitations may be used, see model PSH2C2RB10.
- To order interface board for replacement or for separate use, order model PSMN2C2RB10.
- Average battery life: 3-5 years depending on the number of discharge cycles and environmental temperature
- UPS may change based on quality and availability

ESTIMATED BACKUP TIME VS. LOAD





WIRELESS DEVICES

HVAC & Lighting Energy Management



902 MHz • Maintenance-free

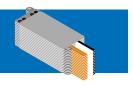
Flexibility of applications • Time saving

Cost savings in installation, renovation, and energy usage

Many hotels keep their rooms at a comfortable temperature for the duration of their guests' stays — whether the guests are in or out of their room. With guest comfort as a priority, hotels and motels typically use almost 40 percent of their electricity on heating and cooling rooms, even though studies show that most sold rooms are unoccupied for 12 or more hours a day. Used correctly, the right controls could offer significant energy savings without compromising the comfort of guests.

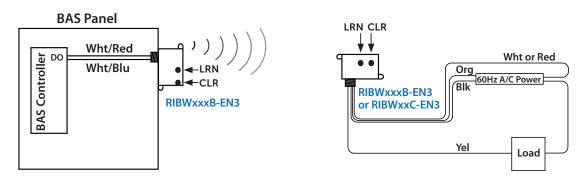
Information from: EnOcean® Alliance & ENERGY STAR Building Upgrade Manual

WIRELESS DEVICES



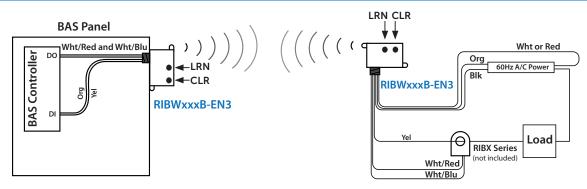
Wireless Solutions for BAS Applications

Unidirectional Control with a BAS Controller



In this application, the BAS system dry-contact output controls the transmitter on model RIBWxxxB-EN3, and a second RIBWxxxB-EN3 or RIBWxxC-EN3 is the receiver.

Bidirectional Control with a BAS Controller



In this application, the BAS system dry-contact output controls the transmitter on model RIBWxxxB-EN3. A second RIBWxxxB-EN3 receives the signal and activates its relay. A current switch detects current flow through the load and closes the dry-contact input on the second RIBWxxxB-EN3. The first RIBWxxxB-EN3 receives the transmission and closes its relay. This contact closure to the BAS system lets the controller know the load status.

EnOcean® Enabled 902 MHz Wireless Devices

Wireless Relays

Ballast Mount Relay Receiver RIBWxxC-EN3



Nipple Mount Relay Transceiver RIBWxxxB-EN3

Transmitter Switches



Window/Door Position Switch WDWS-EN3



Rocker Switch WWS2-EN3



Keycard Switch WKC-EN3

Vacancy/Occupancy Sensors







Ceiling Mount WVSCM-EN3



ENERGY SAVING DEVICES

LIGHT CONTROLLERS

FOR USE IN CLOSETS, PANTRIES, WALK-INS, AND CABINETS

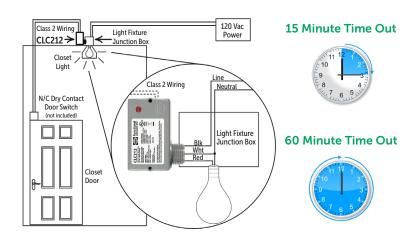
Our Closet Light Controllers are designed to switch lighting loads on and off by the closing or opening of a variety of switches, including door jamb, magnetic, and ball switches. Models are available for retrofit and new contruction jobs, and with or without an energy-saving time out setting.

Retrofits

Retaining Clip Supply Neutral Switched Leg Octagonal Junction Box with Knockout Magnetic Door Switch

- 5 Amp relay
- 120 Vac power
- Fits easily inside junction box
- Includes retaining clip
- No transformer needed (dry contact input)
- Models CLC106, CLC106-NC
- Includes magnetic door jamb switch

New Construction



- 10 Amp N/O relay
- 120-277 Vac power
- No transformer needed (dry contact input)
- Light 18 AWG wire used to control relay, instead of armored cable
- Available with time out setting
- Models CLC212, CLC212-D15, CLC212-D60
- Switch sold separately (models ACLCMAGSM & ACLCMAGDJ)

LIGHTING CONTROLS





EMERGENCY LIGHTING

UL924 RELAYS

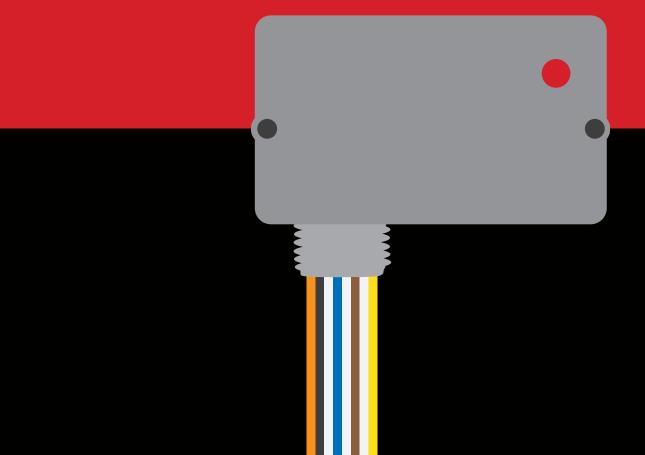
for Bypass/Shunt and Automatic Load Control Applications



FOR MORE PRODUCT INFORMATION:

www.functionaldevices.com/ul924

RELAYS



PILOT RELAYS: 10-15 AMPS



Convenient Prepackaging is a Great Time Saver

- LED indicator
- Multiple contact ratings
- Override / HOA switch options available
- High/low voltage separation available
- 10-15 Amp models
- Pre-wired
- Enclosed or track mount
- Time delay models





ENCLOSED PILOT RELAYS

Product Selection Guide. For full product information, see our website.

		COIL VOLTAGE				CONTACT RATINGS					
MODEL#	(L)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIBU1C	•	10-30	120	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240-277 Vac			Α	0.300 lb.
RIBH1C	•	10-30	208-277	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240-277 Vac			Α	0.302 lb.
RIBU2C	•	10-30	120	2 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac			В	0.507 lb.
RIBH2C	•	10-30	208-277	2 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240-277 Vac			В	0.528 lb.
RIBL3C	•	10-30		3 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240-277 Vac	•		C	0.742 lb.
RIBL4C	•	10-30		3 SPST, 1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.890 lb.
RIBU1S	•	10-30	120	1 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac		1	В	0.404 lb.
RIBH1S	•	10-30	208-277	1 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac		1	В	0.410 lb.
RIBU1SM-250	•	10-30	120	1 SPST	10 A @ 120/250 Vac	1/3 HP @ 120-240 Vac (N/O)	345 VA @ 120/240 Vac		1+monitor	В	0.472 lb.
RIBH1SM-250	•	10-30	208-277	1 SPST	10 A @ 120/250 Vac	1/3 HP @ 120-240 Vac (N/0)	345 VA @ 120/240 Vac		1+monitor	В	0.520 lb.
RIB2401D	•	24	120	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120/240 Vac (N/0)	B300			Α	0.336 lb.
RIB2402D	•	24	208-277	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120/240 Vac (N/0)	B300			Α	0.350 lb.
RIBU1SC	•	10-30	120	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 277 Vac		2 +	В	0.445 lb.
RIBH1SC	•	10-30	208-277	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac		2 +	В	0.447 lb.
RIBL1C-DC	•	10-30 Vdc only		1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac			Α	0.285 lb.
RIB2421C	•	24	120-277	1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	C300			Α	0.301 lb.
RIBD2421C~	•	24	120-277	1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	C300	•		C	0.642 lb.
RIBU2SC	•	10-30	120	1 SPST, 1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac		1	В	0.526 lb.
RIBU2S2	•	10-30	120	2 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	•	2	C	0.735 lb.

(I) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

* = See Housing Guide on pages 86-87

→ = Time Delay

+ = SPDT with override requires 2 switches

= Coil side relay override (requires unit to be powered)

For full product information, see data sheets on website. Shipping weights are approximate and may change due to packaging options.

PILOT RELAYS: 10-15 AMPS

T STYLE PILOT RELAYS

Product Selection Guide. For full product information, see our website.

		COIL V	OLTAGE			CONTACT RATINGS					
MODEL#	(II)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIBTU1C	•	10-30	120	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.568 lb.
RIBTH1C	•	10-30	208-277	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.620 lb.
RIBTU2C	•	10-30	120	2 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.695 lb.
RIBTH2C	•	10-30	208-277	2 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.705 lb.
RIBU1CW	•	10-30	120	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.550 lb.
RIBH1CW	•	10-30	208-277	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.553 lb.
RIBTU1S	•	10-30	120	1 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	•	1	C	0.573 lb.
RIBTH1S	•	10-30	208-277	1 SPST	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	•	1	C	0.652 lb.
RIBTU1SC	•	10-30	120	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	•	2 +	C	0.690 lb.
RIBTH1SC	•	10-30	208-277	1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 277 Vac	•	2 +	C	0.661 lb.
RIBT2401D	•	24	120	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120-240 Vac (N/0)	B300	•		C	0.609 lb.

TRACK MOUNT PILOT RELAYS

Product Selection Guide. For full product information, see our website.

I KACK MY				RELAIS			n Guide. For full prodi	uct inform	ation, see our	website.
		COILV	OLTAGE			CONTACT RATINGS				
MODEL#	(h)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBRL1C	• 1	10-30		1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 240/277 Vac		DIN Rail	0.184 lb.
RIBRL1S	• 1	10-30		1 SPDT	10 A @ 277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240/277 Vac	1#	DIN Rail	0.194 lb.
RIBR24D	• 1	24		1 DPDT	10 A @ 277 Vac	1/2 HP @ 120-240 Vac (N/0)	B300		DIN Rail	0.285 lb.
RIBR24SD	• 1	24		1 DPDT	10 A @ 277 Vac	1/2 HP @ 120-240 Vac (N/0)	B300	1#	DIN Rail	0.285 lb.
RIBAN12C	• 2	12		1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	C300		MT212 Series & DIN Rail	0.178 lb.
RIBAN24C	• 2	24		1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	C300		MT212 Series & DIN Rail	0.180 lb.
RIBM12C	•	12		1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	C300		MT4 Series	0.111 lb.
RIBM12S	•	12		1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	1	MT4 Series	0.127 lb.
RIBM24C	•	24		1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	C300		MT4 Series	0.110 lb.
RIBM24S	•	24		1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	1	MT4 Series	0.129 lb.
RIBM2401D	•	24	120	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120/240 Vac (N/O)	B300		MT4 Series	0.160 lb.
RIBM2402D	•	24	208-277	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120/240 Vac (N/O)	B300		MT4 Series	0.172 lb.
RIBMU1C	•	10-30	120	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT4 Series	0.134 lb.
RIBMH1C	•	10-30	208-277	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT4 Series	0.143 lb.
RIBMU1S	•	10-30	120	1 SPST	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	1	MT4 Series	0.150 lb.
RIBMH1S	•	10-30	208-277	1 SPST	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	1	MT4 Series	0.190 lb.
RIBMU2C	•	10-30	120	2 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT4 Series	0.249 lb.
RIBMH2C	•	10-30	208-277	2 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT4 Series	0.348 lb.
RIBMU1SM-250	•	10-30	120	1 SPST	15 A @ 125 Vac	1/3 HP @ 120-240 Vac (N/0)	345 VA @ 120/240 Vac (N/O)	1+monitor	MT4 Series	0.218 lb.
RIBMH1SM-250	•	10-30	208-277	1 SPST	15 A @ 125 Vac	1/3 HP @ 120-240 Vac (N/0)	345 VA @ 120/240 Vac (N/O)	1+monitor	MT4 Series	0.259 lb.
RIBMU1SC	•	10-30	120	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	2 ³	MT4 Series	0.178 lb.
RIBMH1SC	•	10-30	208-277	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/O)	480 VA @ 277 Vac	2 ³	MT4 Series	0.227 lb.
RIBMN12C	•	12		1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	C300		MT212 Series	0.087 lb.
RIBMN12S	•	12		1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	1	MT212 Series	0.103 lb.
RIBMN24C	•	24		1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	C300		MT212 Series	0.087 lb.
RIBMN24S	•	24		1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	1	MT212 Series	0.107 lb.
RIBMN24S-J	•	24		1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	1	MT212 Series	0.120 lb.
RIBMN24C-4T	•	24		4 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	C300		MT212-6 Included	0.454 lb.
RIBMN24S-4T	•	24		4 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	C300	4	MT212-6 Included	0.550 lb.
RIBMN2401D	•	24	120	1 DPDT	10 A @ 277 Vac	1/2 HP @ 120/240 Vac (N/0)	B300		MT212 Series	0.132 lb.
RIBMNU1C	•	10-30	120	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT212 Series	0.136 lb.
RIBMNH1C	•	10-30	208-277	1 SPDT	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac		MT212 Series	0.141 lb.
RIBMNU1S	•	10-30	120	1 SPST	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	1	MT212 Series	0.177 lb.
RIBMNH1S	٠	10-30	208-277	1 SPST	15 A @ 150 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 277 Vac	1	MT212 Series	0.221 lb.
RIBMNU1SM-250	•	10-30	120	1 SPST	15 A @ 125 Vac	1/3 HP @ 120-240 Vac (N/0)	345 VA @ 120/240 Vac (N/O)	1+monitor	MT212 Series	0.263 lb.
RIBMNH1SM-250	•	10-30	208-277	1 SPST	15 A @ 125 Vac	1/3 HP @ 120-240 Vac (N/0)	345 VA @ 120/240 Vac (N/O)	1+monitor	MT212 Series	0.248 lb.

⁽UL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

⁽L) 1 = UL Listed: UL916 Energy Management; USA & Canada

⁽UL) 2 = UL Listed: UL508 only; USA & Canada

^{+ =} SPDT with override requires 2 switches

^{★ =} See Housing Guide on pages 86-87

^{^ =} Track mount sold separately

^{# =} Coil side relay override (requires unit to be powered)

POWER RELAYS: 20-30 AMPS



Convenient Prepackaging is a Great Time Saver

- LED indicator
- Multiple contact ratings
- Override / HOA switch options available
- High/low voltage separation available
- 20-30 Amp models
- Pre-wired
- Enclosed or track mount
- Time delay models





ENCLOSED POWER RELAYS

Product Selection Guide. For full product information, see our website.

		COIL	VOLTAGE			CONTACT RATINGS	3				
MODEL#	(II)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIB2401B	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			В	0.500 lb.
RIB2402B	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			В	0.501 lb.
RIB2401SB	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		1	В	0.497 lb.
RIB2402SB	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		1	В	0.510 lb.
RIB2421B	•	24	120/208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			В	0.525 lb.
RIB2421SB	•	24	120/208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		1	В	0.540 lb.
RIB2401SBC	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		2 +	В	0.565 lb.
RIB2402SBC	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		2 +	В	0.598 lb.
RIB01P	•		120	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.956 lb.
RIB02P	•		208-277	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.965 lb.
RIB347P	•		347	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.952 lb.
RIB04P	•		480	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.952 lb.
RIB013P	•		120	1 3PST	20 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac	•		C	1.008 lb.
RIB023P	•		208-277	1 3PST	20 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac	•		C	1.020 lb.
RIB043P	•		480	1 3PST	20 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac	•		C	0.993 lb.
RIB243P	•	24		1 3PST	20 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac	•		C	0.974 lb.
RIB24Z	•	24		1 SPST N/O, 1 SPST N/C	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac			В	0.748 lb.
RIB12P	•	12		1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac			В	0.725 lb.
RIB12P30	•	12		1 DPDT	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac			В	0.888 lb.
RIB24P	•	24		1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac			В	0.724 lb.
RIB24P30	•	24		1 DPDT	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac			В	0.874 lb.
RIB01P30	•		120	1 DPST	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.982 lb.
RIB01P30-S	•		120	1 DPST	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•	1#	C	1.013 lb.
RIB02P30	•		208-277	1 DPST	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.980 lb.

⁽VL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

^{* =} See Housing Guide on pages 86-87

^{+ =} SPDT with override requires 2 switches

^{# =} Coil side relay override (requires unit to be powered)

POWER RELAYS: 20-30 AMPS

T STYLE POWER RELAYS

Product Selection Guide. For full product information, see our website.

		COILV	OLTAGE			CONTACT RATING	iS				
MODEL#	(II)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIBT24B	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.675 lb.
RIBT24SB	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.673 lb.
RIBT2401B	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.663 lb.
RIBT2402B	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.670 lb.
RIBT2401SB	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.674 lb.
RIBT2402SB	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.676 lb.
RIBT2401SBC	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	2 +	C	0.790 lb.
RIBT2402SBC	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	2 +	C	0.806 lb.
RIBTD2401B~	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.735 lb.
RIBT242B	•	24		2 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.863 lb.
RIBT243B	•	24		2 SPST, 1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.961 lb.
RIBT24P	•	24		1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		C	0.930 lb.
RIBT24Z	•	24		1 SPST N/O, 1 SPST N/C	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac	•		С	0.983 lb.
RIBT243P	• 1	24		3PST	20 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac	•		C	0.980 lb.

TRACK MOUNT POWER RELAYS

Product Selection Guide. For full product information, see our website.

		COILV	OLTAGE			CONTACT RATING	S			
MODEL#	(4)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBM2401B	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		MT4 Series	0.171 lb.
RIBM2402B	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		MT4 Series	0.178 lb.
RIBM2401SB	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	MT4 Series	0.208 lb.
RIBM2402SB	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	MT4 Series	0.214 lb.
RIBM2401SBC	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2+	MT4 Series	0.242 lb.
RIBM2402SBC	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2 +	MT4 Series	0.248 lb.
RIBM24ZN		24		1 DPDT	30 A @ 300 Vac	3 HP @ 480-600 Vac	NEMA B600		MT4 Series	0.283 lb.
RIBM24ZL	•	24		1 DPST	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.404 lb.
RIBMN24ZL	•	24		1 DPST	30 A @ 300 Vac	3 HP @ 480-600 Vac	Heavy Pilot Duty @ 600 Vac		MT212 Series	0.403 lb.
RIBM243PN	<i>71</i> 2	24		1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.345 lb.
RIBM013PN			120	1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.368 lb.
RIBM023PN	<i>9</i> 7		208-277	1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.396 lb.
RIBM043PN			480	1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.358 lb.
RIBM043PN-HD	<i>9</i> /		480	1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	Heavy Pilot Duty @ 600 Vac		MT4 Series	0.490 lb.

(IL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

 \sim = Time Delay

* = See Housing Guide on pages 86-87

1 = UL Listed : UL916 Energy Management ; USA & Canada

+ = SPDT with override requires 2 switches

▲ = Track mount sold separately

 $\blacksquare \ \ \, = \mathsf{UL} \ \mathsf{Component} \ \mathsf{Recognized} : \mathsf{UL916} \ \mathsf{Energy} \ \mathsf{Management}; \ \mathsf{USA} \ \& \ \mathsf{Canada}$

LATCHING RELAYS



These relays are switched by pulse commands from an appropriate power source or a controller. The relay contacts are mechanically latched in position, so that the load remains in its last state (on or off) during a loss of power. A pulse of opposing polarity latches the relay in the alternate state.

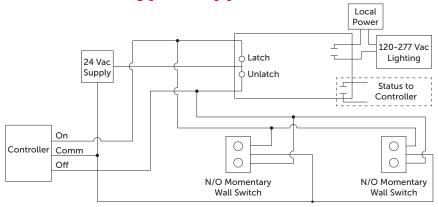




Product Features

- Prepackaged for quick and easy installation
- Electromechanical relay
- Mechanically latching
- Status LED and auxiliary ouput models available
- Electronic ballast rating
- 20 Amp rating

Typical Application



ENCLOSED LATCHING RELAYS

Product Selection Guide. For full product information, see our website.

		COIL VOLTAGE			CONTACT RATING	is				
MODEL#	(II)	AC/DC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	AUXILIARY OUTPUT	HOUSING STYLE *	SHIPPING WEIGHT
RIBL12B	•	12	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac			Α	0.420 lb.
RIBL12SB	•	12	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac	•		Α	0.420 lb.
RIBL12BM	•	12	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac		•	В	0.490 lb.
RIBL12SBM	•	12	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac	•	•	В	0.490 lb.
RIBL24B	•	24	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac			Α	0.420 lb.
RIBL24SB	•	24	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac	•		Α	0.420 lb.
RIBL24BM	•	24	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac		•	В	0.600 lb.
RIBL24SBM	•	24	1 SPST	20 A @ 120-277 Vac	3 HP @ 240 Vac	720 VA @ 120-277 Vac	•	•	В	0.592 lb.

⁽UL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

^{* =} See Housing Guide on pages 86-87

LOW-INPUT / OPTOISOLATED RELAYS

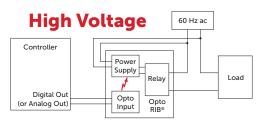


Optoisolated relays help isolate noisy loads from the controller. Good for controlling power relays from analog outputs.

Product Features

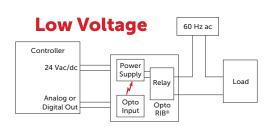
- Prepackaged for quick and easy installation
- Extremely low current draw on the input
- Control input can connect to AO for relay control
- Protect controller from feedback or voltage transients







CONTACT RATINGS



ENCLOSED LOW-INPUT / OPTOISOLATED RELAYS

Product Selection Guide. For full product information, see our website.

MODEL#	(UL)	CONTROL INPUT	POWER INPUT	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIBTELC	•	5-25 Vac/dc	10-30 Vac/dc	1 SPDT	10 A @ 120-277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•		C	0.578 lb.
RIBTELS	•	5-25 Vac/dc	10-30 Vac/dc	1 SPST	10 A @ 120-277 Vac	1/3 HP @ 120-240 Vac (N/0)	480 VA @ 240-277 Vac	•	1	C	0.666 lb.
RIBTE24B	•	5-25 Vac/dc	24 Vac/dc	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.711 lb.
RIBTE01B	•	5-25 Vac/dc	120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.730 lb.
RIBTE02B	•	5-25 Vac/dc	208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.734 lb.
RIBTE24SB	•	5-25 Vac/dc	24 Vac/dc	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.760 lb.
RIBTE01SB	•	5-25 Vac/dc	120 Vac	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.743 lb.
RIBTE02SB	•	5-25 Vac/dc	208-277 Vac	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	1	C	0.747 lb.
RIBTE24P	•	5-25 Vac/dc	24 Vac/dc	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1,640 VA @ 480 Vac	•		C	0.976 lb.
RIBTE01P	•	5-25 Vac/dc	120 Vac	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1,640 VA @ 480 Vac	•		C	0.995 lb.
RIBTE02P	•	5-25 Vac/dc	208-277 Vac	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1,640 VA @ 480 Vac	•		C	1.015 lb.
RIBTE01P-S	•	5-25 Vac/dc	120 Vac	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1,640 VA @ 480 Vac	•	1#	C	1.034 lb.
RIBTE02P-S	•	5-25 Vac/dc	208-277 Vac	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1,640 VA @ 480 Vac	•	1#	C	1.068 lb.

TRACK MOUNT LOW-INPUT / OPTOISOLATED RELAYS

Product Selection Guide. For full product information, see our website.

						CONTACT KATINGS				
MODEL#	(II)	CONTROL INPUT	POWER INPUT	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBME2401B	•	5-25 Vac/dc	24 Vac/dc/120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		MT4 Series	0.197 lb.
RIBME2402B	•	5-25 Vac/dc	24 Vac/dc/208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		MT4 Series	0.226 lb.

⁽UL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

^{★ =} See Housing Guide on pages 86-87

^{▲ =} Track mount sold separately

^{# =} Coil side relay override (requires unit to be powered)

POLARIZED / ALARM RELAYS

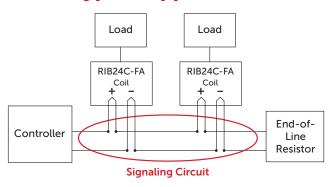


These relays are polarized to work in a supervised system and may be turned on and off by reversing polarity. These prepackaged relays make installation quick and easy and can be used in fire alarm systems, smoke control systems, etc.

Product Features

- · Coil input is polarity sensitive
- For use with fire alarm systems
- System supervision for controllers that utilize end-of-line resistors
- Four wire circuit ensures indication of broken wiring connection with RIB®
- Prepackaged for quick and easy installation

Typical Application



ENCLOSED POLARIZED / ALARM RELAYS

Product Selection Guide. For full product information, see our website.

					CONTACT RATINGS					
MODEL#	(UL)	COIL VOLTAGE	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIB12C-FA	•	12 Vac/dc	1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac			Α	0.293 lb.
RIB24C-FA	•	24 Vac/dc	1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac			Α	0.291 lb.
RIB12S-FA	•	12 Vac/dc	1 SPST	10 A @ 277 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac		1	Α	0.290 lb.
RIB24S-FA	•	24 Vac/dc	1 SPST	10 A @ 277 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac		1	Α	0.291 lb.
RIBT24B-FA	•	24 Vac/dc	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.660 lb.
RIB24P-FA	•	24 Vac/dc	1 DPDT	20 A @ 300 Vac	3 HP @ 480-600 Vac	1.640 VA @ 480 Vac			В	0.755 lb.

TRACK MOUNT POLARIZED / ALARM RELAYS

Product Selection Guide. For full product information, see our website.

					CONTACT RATINGS				
MODEL#	(I)	COIL VOLTAGE	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBMN12C-FA	•	12 Vac/dc	1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac		MT212 Series	0.113 lb.
RIBMN24C-FA	•	24 Vac/dc	1 SPDT	15 A @ 125 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac		MT212 Series	0.120 lb.
RIBMN12S-FA	•	12 Vac/dc	1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac	1	MT212 Series	0.127 lb.
RIBMN24S-FA	•	24 Vac/dc	1 SPST	15 A @ 125 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac	1	MT212 Series	0.127 lb.

^{(4) =} UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

^{★ =} See Housing Guide on pages 86-87

 $[\]Lambda$ = Track mount sold separately

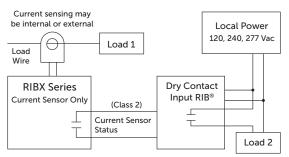
DRY CONTACT INPUT RELAYS



Product Features

- Prepackaged for quick and easy installation
- Provides low-voltage (Class 2) power needed to activate the relay (self-powered) by closing the dry contact input
- Activated by a wide range of dry contacts such as thermostats, switches, other relays, solid-state switches, etc.
- Power to energize the relay can be brought to the relay on a separate pair of wires along with the control output of the controller, or can be a local power source near the relay
- Relay contacts are isolated from the input power and the dry contact input, so they can be wired to switch any other power-load or low-voltage load (see specifications for contact ratings)

Typical Application



Self-powered current switches of the RIBX Series and relays of the Dry Contact Input RIB® Series may be applied to interlock Load 2 to Load 1.

ENCLOSED DRY CONTACT INPUT RELAYS

Product Selection Guide. For full product information, see our website.

					CONTACT KATTIN	us				
MODEL#	(L)	POWER INPUT	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	HIGH/LOW SEPARATION	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT
RIB21CDC	•	120-277 Vac	1 SPDT	10 A @ 277 Vac	1 HP @ 250 Vac	770 VA @ 250 Vac			Α	0.314 lb.
RIB01BDC	•	120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			В	0.514 lb.
RIB02BDC	•	208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			В	0.520 lb.
RIB01SBDC	•	120 Vac	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		1	В	0.513 lb.
RIB02SBDC	•	208-277 Vac	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		1	В	0.518 lb.
RIB01SBCDC	•	120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		2	В	0.590 lb.
RIB02SBCDC	•	208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac		2	В	0.580 lb.
RIBD01BDC~	•	120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.781 lb.
RIBD02BDC~	•	208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.790 lb.
RIBD01BDC-DOB~	•	120 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.784 lb.
RIBD02BDC-DOB ~	•	208-277 Vac	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		C	0.805 lb.

TRACK MOUNT DRY CONTACT INPUT RELAYS

Product Selection Guide. For full product information, see our website.

					CONTACT KATINGS				
MODEL#	<i>9</i> 1	POWER INPUT	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	OVERRIDE SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBM01ZNDC	•	120 Vac	1 DPDT	30 A @ 300 Vac	3 HP @ 480-600 Vac	B600		MT4 Series	0.352 lb.
RIBM02ZNDC	•	208-277 Vac	1 DPDT	30 A @ 300 Vac	3 HP @ 480-600 Vac	B600		MT4 Series	0.356 lb.
RIBM013PNDC	•	120 Vac	1 3PDT	30 A @ 300 Vac	7.5 HP @ 480 Vac, 3 Phase	2122 VA @ 480 Vac, 3 Phase		MT4 Series	0.402 lb.

(UL) = UL Listed : UL916 Energy Management; USA & Canada

91 = UL Component Recognized : UL916 Energy Management; USA & Canada

→ = Time Delay

* = See Housing Guide on pages 86-87

∧ = Track mount sold separately

SPECIALTY PERIPHERAL CONTROLS



If we do not already build a device with specifications or packaging configurations you require, we will be happy to quote and design one for you. Functional Devices, Inc. is actively involved in the development, manufacturing, and production of special

peripheral devices. They are either variations of existing Functional Devices products or entirely unique devices. We will help provide you with a product to fit your specific needs. Please contact us so we may review your project and special requirements.

FAN SAFETY ALARM CIRCUITS / GENERAL PURPOSE LOGIC BOARDS

For full product information, see our website.

MODEL#	(II)	POWER INPUT	ALARM CIRCUITS	SEE BACnet COMPATIBLE	HOUSING STYLE *	TRACK MOUNT INCLUDED	SHIPPING WEIGHT
RIBMNLB	•	24 Vac	4	COT-II ATIBLE	THE STATE OF THE S	MT212-6	0.566 lb.
RIBLB	•	24 Vac	4		D		1.127 lb.
RIBMNWLB-7-BC	•	24 Vac	7	•		MT212-6	0.587 lb.
RIBMNLB-6	•	24 Vac	6			MT212-6	0.624 lb.
RIBMNLB-4	•	24 Vac	4			MT212-6	0.516 lb.
RIBMNLB-2	•	24 Vac	2			MT212-6	0.332 lb.
RIBMNLB-1	•	24 Vac	1			MT212-4	0.286 lb.
RIBLB-6	•	24 Vac	6		D		1.187 lb.
RIBLB-4	•	24 Vac	4		D		1.088 lb.
RIBLB-2	•	24 Vac	2		D		1.000 lb.
RIBMNLB-6NO	•	24 Vac	6			MT212-6	0.637 lb.
RIBMNLB-4NO	•	24 Vac	4			MT212-6	0.533 lb.
RIBMNLB-2NO	•	24 Vac	2			MT212-6	0.343 lb.

I/O EXPANDERS

Product Selection Guide. For full product information, see our website.

MODEL#	(H)	POWER INPUT	RELAY CONTACTS	TRACK MOUNT INCLUDED	SHIPPING WEIGHT
RIBMN24Q2C	• 1	24 Vac/dc	2 SPDT	MT212-4	0.296 lb.
RIBMN24Q3C	• 1	24 Vac/dc	3 SPDT	MT212-4	0.354 lb.
RIBMN24Q4C	• 1	24 Vac/dc	4 SPDT	MT212-6	0.494 lb.
RIBMN24Q4C-PX	• 1	24 Vac/dc	4 SPDT	MT212-6	0.493 lb.

MANUAL ANALOG OVERRIDE SWITCH

Product Selection Guide. For full product information, see our website.

MODEL#	POWER INPUT	SWITCH	TRACK MOUNT ^	SHIPPING WEIGHT
RIBMNA1D0	24 Vac/dc	Manual / Auto	MT212 Series	0.172 lb.

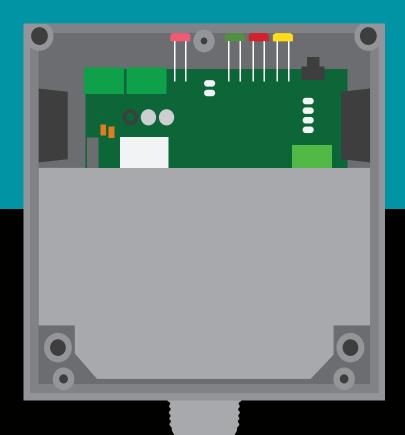
(UL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

(L) 1 = UL Listed: UL916 Energy Management; USA & Canada

 Λ = Track mount sold separately

^{* =} See Housing Guide on pages 86-87

NETWORK COMPATIBLE DEVICES



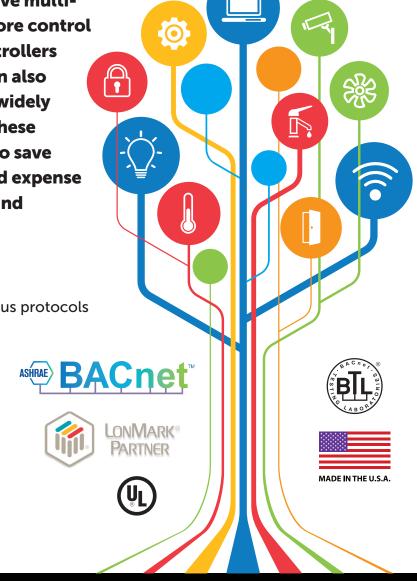


NETWORK COMPATIBLE DEVICES

Our Network Compatible Devices can be hard wired and used instead of more expensive multi-output controllers when a few more control points are needed, and large controllers are too much for the job. They can also be used when control points are widely spread throughout the job site. These devices have been prepackaged to save the installer the time, trouble, and expense of buying separate components and assembling them on the job.

Product Features

- BACnet®, LonWorks®, Wi-Fi and Modbus protocols
- Analog input
- Analog output
- Binary output
- Binary input
- Thermistor inputs available
- On-board current sensors available
- Track mount and enclosed versions
- NEMA 4X available
- UL Listed



NETWORK COMPATIBLE DEVICES

BACNET® DEVICES

Product Selection Guide. For full product information, see our website.

		POWE	R INPUT		CONTACT RATINGS											
MODEL#	(L)	AC/DC	AC	RELAY CON- TACTS	RESISTIVE	MOTOR	PILOT DUTY	DRY CONTACT BINARY INPUT	ANALOG INPUT	ANALOG OUTPUT	ACCUMU- LATOR INPUT	INTERNAL CURRENT SENSOR	PRECON® THERMISTOR INPUT	OVERRIDE SWITCH	TRACK MOUNT / HOUSING STYLE *	SHIPPING WEIGHT
RIBTW2401B-BC	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1						#	C	0.846 lb.
RIBTW2402B-BC	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1						#	C	0.864 lb.
RIBMNWX2401B-BO	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				•		#	MT212-6	0.532 lb.
RIBTWX2401B-BC	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				•		#	D	1.060 lb.
RIBMNWX2402B-BO	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				•		#	MT212-6	0.532 lb.
RIBTWX2402B-BC	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				•		#	D	1.092 lb.
RIBMNW24B-BCAI	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2	1				10kΩ Type 2 or 3	#	MT212-6	0.522 lb.
RIBTW24B-BCAI	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2	1				$10k\Omega$ Type 2 or 3	#	D	1.096 lb.
RIBTW24B-BCAO	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	1	1			$10k\Omega$ Type 2 or 3	#	D	1.040 lb.
RIBMNWD12-BCDI	•	24						12							MT212-6	0.512 lb.
RIBMNWD12-BC	•	24						12			2				MT212-6	0.540 lb.
RIBMW24B-44-BC	•	24		4 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	4						#	MT4-6	0.830 lb.

OTHER BACNET® DEVICES: Fan Safety Alarm Circuit / General Purpose Logic Board (pg. 44) and UPS Kit (pg. 71)

LONMARK® DEVICES

Product Selection Guide. For full product information, see our website.

		POWER	INPUT		CONTACT RATINGS									
MODEL#	(H)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	DRY CONTACT BINARY INPUT	ANALOG INPUT	INTERNAL CURRENT SENSOR	PRECON® THERMISTOR INPUT	OVERRIDE SWITCH	TRACK MOUNT / HOUSING STYLE *	SHIPPING WEIGHT
RIBTW2401B-LN	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1					C	0.823 lb.
RIBTW2402B-LN	•	24	208-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1					C	0.820 lb.
RIBTW2401SB-LN	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				1	C	0.840 lb.
RIBTW2402SB-LN	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1				1	C	0.804 lb.
RIBMNWX2401SB-LN	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			•		1	MT212-6	0.530 lb.
RIBTWX2401SB-LN	•	24	120	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			•		1	D	1.065 lb.
RIBMNWX2402SB-LN	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			•		1	MT212-6	0.538 lb.
RIBTWX2402SB-LN	•	24	208-277	1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac			•		1	D	1.024 lb.
RIBMW24SB-LNAI	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	1			1	MT4-4	0.500 lb.
RIBTW24SB-LNAI	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	1			1	D	1.027 lb.
RIBMW24SB-LNT2	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1			10kΩ Type 2	1	MT4-4	0.476 lb.
RIBTW24SB-LNT2	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1			10kΩ Type 2	1	D	1.020 lb.
RIBMW24SB-LNT3	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1			10kΩ Type 3	1	MT4-4	0.476 lb.
RIBTW24SB-LNT3	•	24		1 SPST	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1			10kΩ Type 3	1	D	1.056 lb.

WI-FI DEVICES

Product Selection Guide. For full product information, see our website.

		POWER	INPUT			CONTACT RATIN	GS					
MODEL #	(I) AC/DC AC CONTACTS		RESISTIVE	MOTOR	PILOT DUTY	DRY CONTACT BINARY INPUT	UNIVERSAL INPUT	OVERRIDE SWITCH	HOUSING STYLE *	SHIPPING WEIGHT		
RIBTW24B-WI-N4	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1		#	D	0.830 lb.
RIBTW2401B-WIUI-N4	•	24	120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	1	2	#	D	1.454 lb.

MODBUS DEVICES

Product Selection Guide. For full product information, see our website.

MODEL#	(H)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	DRY CONTACT BINARY INPUT	ANALOG INPUT	PRECON® THERMISTOR INPUT	OVERRIDE SWITCH	TRACK MOUNT / HOUSING STYLE *	SHIPPING WEIGHT
RIBMNW24B-MBAI	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2	1	10kΩ Type 2	#	MT212-6	0.532 lb.
RIBTW24B-MBAI	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	2	1	10kΩ Type 2	#	D	1.074 lb.

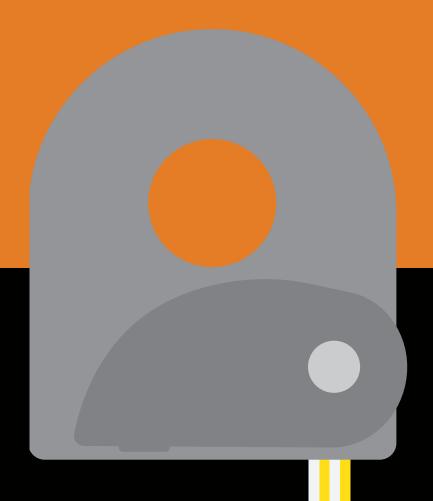
(U) = UL Listed : UL916 Energy Management; USA & Canada

 \blacksquare = UL Component Recognized : UL916 Energy Management; USA & Canada

= Coil Side Relay Override (requires unit to be powered) * = See Housing Guide on pages 86-87 ^ = Track mount included

Precon* is a registered trademark of Kele and Associates.

CURRENT SENSORS





RIB® CURRENT SENSORS, TRANSDUCERS, AND RELAY AND SENSOR COMBOS ARE PREPACKAGED TO MAKE **INSTALLATION EASY**

- Prepackaged: Sensor, LED indicators, and wires or terminals
- Some models available with 10 Amp or 20 Amp relay
- Sense up to 150 Amps
- Split and solid core models
- Fixed or adjustable thresholds

- Hi/Low voltage separation
- Transducers with voltage output or 4-20mA regulation available
- Enclosed or track mount
- HOA switches available
- UL Listed
- Made in the USA





Functional Devices Certified for use with ECMs

- RIBXKA
- RIBXKF RIBXG21F
- RIBXKTA
- RIBXKTF
- RIBXGA
- RIBXGF RIBXGTA
- RIBXGTF
- RIBXGFL
- RIBXG21A

- RIBXG21TA
- RIBXG21TF
- RIBXGA-SCAL
- RIBXGTA-SCAL
- RIBXGHA

- RIBXGHF
- RIBXGHTA
- RIBXGHTF
- RIBXGTFL
- RIBXA
- RIBXF RIBXJA
- RIBXJF

- RIBXRA
- RIBXRF
- RIBHX24BF
- RIBX243PA
- RIBX243PF
- RIBX24BA RIBX24BF
- RIBX24SBA

- RIBX24SBF
- RIBXLCA
- RIBXLCF RIBXLCJA
- RIBXLCJF
- RIBXLCRA
- RIBXLCRF
- RIBXLSA

- RIBXLSF
- RIBXLSJA
- RIBXLSJF
- RIBXLSRA
- RIBXLSRF
- RIBMX24BA
- RIBMX24BF
- RIBMX24SBA RIBMX24SBF



CURRENT SENSORS

SOLID AN	ID	SPLIT (COF	RE AC SE	ENSORS	Product S	election Guide	. For full product information	n, see our	website.
MODEL#	(l)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR CONTACT TERMINATION	SENSOR OUTPUT *	SHIPPING WEIGHT
RIBXKF	•	.25-150 A	Solid	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.175 lb.
RIBXKTF	•	.25-150 A	Solid	Fixed, .25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.146 lb.
RIBXKA	•	.50-150 A	Solid	Adjustable	Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.175 lb.
RIBXKTA	•	.50-150 A	Solid	Adjustable	Solid State Switch SPST	30 Vac/dc	.8 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.147 lb.
RIBXGHF	• 1	.50-150 A	Split	Fixed, .50 Amp	Solid State Switch SPST	120 Vac only	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads		0.291 lb.
RIBXGHTF	• 1	.50-150 A	Split	Fixed, .50 Amp	Solid State Switch SPST	120 Vac only	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire		0.243 lb.
RIBXGHA	• 1	.75-150 A	Split	Adjustable	Solid State Switch SPST	120 Vac only	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads		0.286 lb.
RIBXGHTA	• 1	.75-150 A	Split	Adjustable	Solid State Switch SPST	120 Vac only	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire		0.249 lb.
RIBXGF	•	.35-150 A	Split	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.273 lb.
RIBXGFL	•	.75-150 A	Split	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.280 lb.
RIBXGTF	•	.35-150 A	Split	Fixed, .35 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.235 lb.
RIBXGTFL	•	.75-150 A	Split	Fixed, .75 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.240 lb.
RIBXGA	•	.75-150 A	Split	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.276 lb.
RIBXGTA	•	.75-150 A	Split	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.243 lb.
RIBXGA-SCAL	•	3-150 A	Split	Self-Calibrating	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Wht/Yel 16" 18 AWG Wire Leads		0.292 lb.
RIBXGTA-SCAL	•	3-150 A	Split	Self-Calibrating	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.248 lb.
RIBXG21F	• 1	.50-150 A	Split	Fixed, .50 Amp	Solid State Switch SPST	120-277 Vac	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads		0.288 lb.
RIBXG21TF	. 1	.50-150 A	Split	Fixed, .50 Amp	Solid State Switch SPST	120-277 Vac	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire		0.243 lb.
RIBXG21A	• 1	.75-150 A	Split	Adjustable	Solid State Switch SPST	120-277 Vac	1 Amp Max	Wht/Blk 16" 18 AWG Wire Leads		0.290 lb.
RIBXG21TA	• 1	.75-150 A	Split	Adjustable	Solid State Switch SPST	120-277 Vac	1 Amp Max	Terminal Strip, Accepts #14-22 AWG Wire		0.244 lb.
RIBXKTV5-10	•	0-10 A	Solid	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc	0.148 lb.
RIBXKTV5-20	•	0-20 A	Solid	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc	0.150 lb.
RIBXKTV5-50	•	0-50 A	Solid	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc	0.151 lb.
RIBXKTV5-100	•	0-100 A	Solid	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc	0.149 lb.
RIBXK420-20	•	0-20 A	Solid	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.178 lb.
RIBXK420-50	•	0-50 A	Solid	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.180 lb.
RIBXK420-100	•	0-100 A	Solid	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.180 lb.
RIBXGTV5	٠	0-20 A, 0-50 A, 0-100 A	Spiit	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc	0.246 lb.
RIBXGTV10	•	0-20 A, 0-50 A, 0-100 A	Split	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-10 Vdc	0.246 lb.
RIBXG420-20	• 2	0-20 A	Split	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.284 lb.
RIBXG420-50	• 2	0-50 A	Split	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.276 lb.
RIBXG420-100	• 2	0-100 A	Split	Analog				Red & Blk 16" 18 AWG Wire Leads	4-20 mA	0.284 lb.

TSTYLE AC SENSORS

Product Selection Guide. For full product information, see our website.

MODEL#	(L)	SENSING RANGE	TYPE	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR CONTACT TERMINATION	SENSOR OUTPUT	SHIPPING WEIGHT
RIBXF	•	.50-30 A	Internal	Fixed, .50 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.828 lb.
RIBXA	•	.50-30 A	Internal	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.835 lb.
RIBXV	•	0-30 A	Internal	Analog				Terminal Strip, Accepts #14-22 AWG Wire	0-5 Vdc / 0-10 Vdc	0.833 lb.
RIBXRF	•	1.25-150 A	Solid	Fixed, 1.25 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.684 lb.
RIBXRA	•	1.25-150 A	Solid	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.676 lb.
RIBXJF	•	3-150 A	Split	Fixed, 3 Amp	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.759 lb.
RIBXJA	•	3-150 A	Split	Adjustable	Solid State Switch SPST	30 Vac/dc	.4 Amps Max	Terminal Strip, Accepts #14-22 AWG Wire		0.759 lb.

⁽VL) = UL Listed : UL916 Energy Management, UL864 Fire ; USA & Canada

^{1 =} UL Listed: UL916 Energy Management; USA & Canada

UL Listed: UL864 Fire, UL508 Industrial Control; USA & Canada

^{★ = 4-20} mA is Loop Powered

Refer to Housing Guide on pages 86-87 or product data sheet for housing information.

CURRENT SENSOR & RELAY COMBINATIONS

ENCLOSED AC SENSORS WITH RELAYS

Product Selection Guide. For full product information, see our website.

MODEL#	(h)	COIL VOLTAGE	RELAY CONTACTS	OVER- RIDE SWITCH	RESISTIVE	SENSING RANGE	TYPE *	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR OUTPUT	SHIPPING WEIGHT
RIBHX24BF	• 1	24 Vac	1 SPST-N/O		20 A @ 277 Vac	.25-20 A	Internal	Fixed, .25 Amp	Solid State Switch Contact	30 Vac/dc	.1 Amps Max		0.407 lb.
RIBHX24BA	• 1	24 Vac	1 SPST-N/O		20 A @ 277 Vac	.25-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.1 Amps Max		0.407 lb.
RIBXLCF	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	.50-10 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.758 lb.
RIBXLCA	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	.50-10 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.770 lb.
RIBXLCV	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	0-10 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.780 lb.
RIBXLCRF	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	1.25-150 A	External	Fixed, 1.25 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.820 lb.
RIBXLCRA	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	1.25-150 A	External	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.768 lb.
RIBXLCJF	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	3-150 A	External	Fixed, 3 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.913 lb.
RIBXLCJA	•	10-30 Vac/dc	1 SPDT		10 A @ 120-277 Vac	3-150 A	External	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.867 lb.
RIBXLCEA	•	10-30 Vac/dc	1 SPDT		5 A @ 277 Vac	.125 - 5 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.787 lb.
RIBXLCEV	•	10-30 Vac/dc	1 SPDT		5 A @ 277 Vac	0 - 5 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.777 lb.
RIBXLSF	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	.50-10 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.786 lb.
RIBXLSA	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	.50-10 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.792 lb.
RIBXLSV	٠	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	0 - 10 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.795 lb.
RIBXLSRF	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	1.25-150 A	External	Fixed, 1.25 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.852 lb.
RIBXLSRA	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	1.25-150 A	External	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.768 lb.
RIBXLSJF	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	3-150 A	External	Fixed, 3 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.942 lb.
RIBXLSJA	•	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	3-150 A	External	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.898 lb.
RIBXLSEA	•	10-30 Vac/dc	1 SPST	1	5 A @ 277 Vac	.125 - 5 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.856 lb.
RIBXLSEV	•	10-30 Vac/dc	1 SPST	1	5 A @ 277 Vac	0 - 5 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.840 lb.
RIBX24BF	•	24 Vac/dc	1 SPDT		20 A @ 277 Vac	.50-20 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.880 lb.
RIBX24BA	•	24 Vac/dc	1 SPDT		20 A @ 277 Vac	.50-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.890 lb.
RIBX24BV	•	24 Vac/dc	1 SPDT		20 A @ 277 Vac	0-20 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.887 lb.
RIBX24SBF	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	.50-20 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.877 lb.
RIBX24SBA	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	.50-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		0.882 lb.
RIBX24SBV	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	0-20 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	0.906 lb.
RIBX243PF	• 1	24 Vac/dc	1 3PST		20 A @ 300 Vac	.50-20 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		1.190 lb.
RIBX243PA	• 1	24 Vac/dc	1 3PST		20 A @ 300 Vac	.50-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		1.190 lb.
RIBX243PV	• 1	24 Vac/dc	1 3PST		20 A @ 300 Vac	0-20 A	Internal	Analog				0-10 Vdc	1.207 lb.

TRACK MOUNT AC SENSORS WITH RELAYS

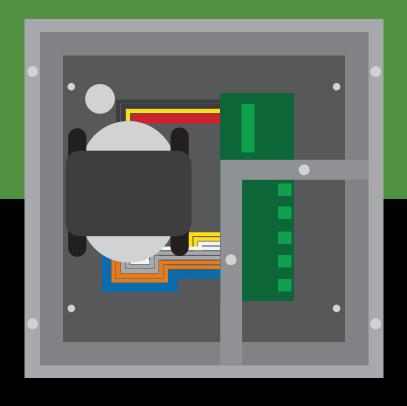
Product Selection Guide. For full product information, see our website.

MODEL#	(h)	COIL VOLTAGE	RELAY CONTACTS	OVER- RIDE SWITCH	RESISTIVE	SENSING RANGE	TYPE *	THRESHOLD	SENSOR CONTACT TYPE	SWITCHING VOLTAGE RANGE	MAX. SWITCHING CURRENT	SENSOR OUTPUT	TRACK MOUNT A	SHIPPING WEIGHT
RIBRXLCF	• 1	10-30 Vac/dc	1 SPST		10 A @ 277 Vac	.25-10 A	Internal	Fixed, .25 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		DIN Rail	0.285 lb.
RIBRXLCA	. 1	10-30 Vac/dc	1 SPST		10 A @ 277 Vac	.25-10 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		DIN Rail	0.285 lb.
RIBRXLSA	• 1	10-30 Vac/dc	1 SPST	1	10 A @ 277 Vac	.25-10 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		DIN Rail	0.285 lb.
RIBMX24BF	•	24 Vac/dc	1 SPDT		20 A @ 277 Vac	.50-20 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		MT4 Series	0.410 lb.
RIBMX24BA	•	24 Vac/dc	1 SPDT		20 A @ 277 Vac	.50-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		MT4 Series	0.410 lb.
RIBMX24SBF	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	.50-20 A	Internal	Fixed, .50 Amp	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		MT4 Series	0.438 lb.
RIBMX24SBA	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	.50-20 A	Internal	Adjustable	Solid State Switch Contact	30 Vac/dc	.4 Amps Max		MT4 Series	0.446 lb.
RIBMX24SBV	•	24 Vac/dc	1 SPST	1	20 A @ 277 Vac	0-20 A	Internal	Analog				0-5 Vdc / 0-10 Vdc	MT4 Series	0.408 lb.

⁽UL) = UL Listed: UL916 Energy Management, UL864 Fire; USA & Canada

⁽I) 1 = UL Listed: UL916 Energy Management; USA & Canada

POWER SUPPLIES





AC & DC POWER SUPPLIES

- 40 500 VA AC models
- Single & dual transformers
- Prepackaged power supply kits
- Class 2 models
- On/off control
- Overcurrent protection
- LED power indicator
- High/low voltage separation
- 120 Vac convenience outlets

500, 300 & 200 VA Power Supplies are Perfect for VAV & Zone and Network Controller Applications

- 5 or 3 isolated 100 VA or 5 isolated 40 VA outputs
- On/Off circuit breaker switch for each output
- UL Listed Class 2

- Enclosed or sub-panel mount
- Low voltage compartment models available
- 120 Vac convenience outlet available

Mounting Your Controller and Peripheral Devices is Easy and Convenient in our Prepackaged Power Supply Solutions

Metal Enclosure, Power Supply, and Sub-Panel with Several Options to Fit Your Needs

If you plan to install a controller and other peripheral devices, an important consideration is where the items will be placed within an enclosure and how they will be powered. We have a line of products that can address both of those needs: the MHP Series. These products include a metal enclosure, power supply and a sub-panel with several prepackaged options to meet your specific needs.

AC POWER SUPPLIES

AC POWER SUPPLIES: 40-100 VA

Product Selection Guide. For full product information, see our website.

MODEL #	(II)	TRANSFORMER/S	INDUT DOWED	UEIGUT	WIDTH	DEDTIL		AUX OUTPUT	MAIN BREAKER ON	SECONDARY		HOUSING STYLE /	SHIPPING
MODEL# PSB40AB10	•1	TRANSFORMER(S)	120 Vac	HEIGHT 5.200"	WIDTH 5.250"	DEPTH 3.750″	OUTLETS	WIRE	INPUT POWER * 10 A Switch/Breaker	CONFIGURATION Ext. Terminal Strip	CORD	TRACK MOUNT Panel Mount	WEIGHT 3.340 lb.
PSB100AB10	. 1	100 VA	120 Vac	5.200″	5.250″	3.750″			10 A Switch/Breaker	Ext. Terminal Strip		Panel Mount	4.710 lb.
PSC40AB10	. 1	40 VA	120 Vac	6.250″	5.620″	4.250″			10 A Switch/Breaker			Enclosed	5.727 lb.
PSC100AB10	• 1	100 VA	120 Vac	6.250″	5.620″	4.250″			10 A Switch/Breaker			Enclosed	7.075 lb.
PSMN40A	•	40 VA	120 Vac	3.250″	2.750″	2.000″				Terminal Strip		MT212-4 included	1.636 lb.
PSMN40AS		40 VA	120 Vac	3.250″	2.750″	2.000″				Terminal Strip		MT212-4 included	1.790 lb.
PSH40A	• 1	40 VA	120 Vac	4.500″	5.438″	4.500″	•			Ext. Terminal Strip		Enclosed	4.013 lb.
PSH40AW	• 1	40 VA	120 Vac	4.500″	5.438″	4.500″				Internal Wires		Enclosed	4.020 lb.
PSH40AB10	• 1	40 VA	120 Vac	4.500″	5.438″	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip		Enclosed	4.195 lb.
PSH40AB10-EXT2	•	40 VA	120 Vac	4.500″	5.438″	4.500″			10 A Switch/Breaker	Ext. Terminal Strip	•	Enclosed	4.513 lb.
PSH40AWB10	• 1	40 VA	120 Vac	4.500″	5.438"	4.500″	•	•	10 A Switch/Breaker	Internal Wires		Enclosed	4.140 lb.
PSH75A	•	75 VA	480/277/240/208/120 Vac	4.500"	5.438"	4.500″	•			Ext. Terminal Strip		Enclosed	5.386 lb.
PSH75AW	•	75 VA	480/277/240/208/120 Vac	4.500"	5.438"	4.500″	•			Internal Wires		Enclosed	5.160 lb.
PSH75AB10	•	75 VA	480/277/240/208/120 Vac	4.500″	5.438"	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip		Enclosed	5.433 lb.
PSH75AWB10	•	75 VA	480/277/240/208/120 Vac	4.500″	5.438"	4.500″	•	•	10 A Switch/Breaker	Internal Wires		Enclosed	5.473 lb.
PSH100A	• 1	100 VA	120 Vac	4.500"	5.438"	4.500″	•			Ext. Terminal Strip		Enclosed	5.352 lb.
PSH100AW	• 1	100 VA	120 Vac	4.500″	5.438″	4.500″	•			Internal Wires		Enclosed	5.120 lb.
PSH100AB10	• 1	100 VA	120 Vac	4.500"	5.438"	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip		Enclosed	5.480 lb.
PSH100AB10-EXT2	•	100 VA	120 Vac	4.500″	5.438"	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip	•	Enclosed	5.240 lb.
PSH100AWB10	• 1	100 VA	120 Vac	4.500″	5.438″	4.500″	•	•	10 A Switch/Breaker	Internal Wires		Enclosed	5.487 lb.
PSH75A75A	•	75 VA, 75 VA	480/277/240/208/120 Vac	4.500″	8.625"	4.500″	•			Ext. Terminal Strip		Enclosed	9.376 lb.
PSH75A75AW	•	75 VA, 75 VA	480/277/240/208/120 Vac	4.500″	8.625″	4.500″	•			Internal Wires		Enclosed	9.440 lb.
PSH75A75AB10	•	75 VA, 75 VA	480/277/240/208/120 Vac	4.500″	8.625"	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip		Enclosed	9.280 lb.
PSH75A75AWB10	•	75 VA, 75 VA	480/277/240/208/120 Vac	4.500″	8.625″	4.500″	•	•	10 A Switch/Breaker	Internal Wires		Enclosed	9.330 lb.
PSH100A100A	• 1	100 VA, 100 VA	120 Vac	4.500″	8.625″	4.500″	•			Ext. Terminal Strip		Enclosed	9.227 lb.
PSH100A100AW	• 1	100 VA, 100 VA	120 Vac	4.500″	8.625″	4.500″	•			Internal Wires		Enclosed	9.395 lb.
PSH100A100AB10	• 1	100 VA, 100 VA	120 Vac	4.500″	8.625″	4.500″	•	•	10 A Switch/Breaker	Ext. Terminal Strip		Enclosed	9.320 lb.
PSH100A100AWB10	• 1	100 VA, 100 VA	120 Vac	4.500"	8.625"	4.500"	•	•	10 A Switch/Breaker	Internal Wires		Enclosed	9.440 lb.

AC POWER SUPPLIES: 200-500 VA

Product Selection Guide. For full product information, see our website.

MODEL#	(II)	TRANSFORMER	INPUT POWER	HEIGHT	WIDTH	DEPTH	120 VAC OUTLET#	BREAKER PER OUTPUT	SECONDARY CONFIGURA- TION	HOUSING STYLE / SUB-PANEL	SHIPPING WEIGHT
PSH500A	•	500 VA (five 100 VA Outputs)	480/277/240/120 Vac	12.125"	12.125″	6.000″		5 x 4 Amp	Terminals	Enclosed	32.368 lb.
PSH300A	•	300 VA (three 100 VA Outputs)	480/277/240/120 Vac	12.125"	12.125″	6.000″		3 x 4 Amp	Terminals	Enclosed	20.922 lb.
PSH200A	•	200 VA (five 40 VA Outputs)	480/347/277/240/120 Vac	12.125″	12.125″	6.000″		5 x 2 Amp	Terminals	Enclosed	19.440 lb.
PSMN500A	•	500 VA (five 100 VA Outputs)	480/277/240/120 Vac	11.330″	11.400″	5.000″		5 x 4 Amp	Terminals	Sub-panel Mount	21.126 lb.
PSMN300A	•	300 VA (three 100 VA Outputs)	480/277/240/120 Vac	11.330″	11.400″	4.500″		3 x 4 Amp	Terminals	Sub-panel Mount	11.300 lb.
PSMN200A	•	200 VA (five 40 VA Outputs)	480/347/277/240/120 Vac	11.330″	11.400″	5.000"		5 x 2 Amp	Terminals	Sub-panel Mount	10.540 lb.
PSH500A-LVC	•	500 VA (five 100 VA Outputs)	480/277/240/120 Vac	12.125″	12.125″	6.000″		5 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment	33.080 lb.
PSH300A-LVC	•	300 VA (three 100 VA Outputs)	480/277/240/120 Vac	12.125″	12.125″	6.000″		3 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment	21.500 lb.
PSH200A-LVC	•	200 VA (five 40 VA Outputs)	480/347/277/240/120 Vac	12.125″	12.125″	6.000″		5 x 2 Amp	Terminals	Enclosed with Low Voltage Compartment	20.300 lb.
PSH500AB10-LVC	•	500 VA (five 100 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	5 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment	33.280 lb.
PSH300AB10-LVC	•	300 VA (three 100 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	3 x 4 Amp	Terminals	Enclosed with Low Voltage Compartment	21.620 lb.
PSH200AB10-LVC	•	200 VA (five 40 VA Outputs)	120 Vac	12.125″	12.125″	6.000″	•	5 x 2 Amp	Terminals	Enclosed with Low Voltage Compartment	20.916 lb.

⁽UL Approved UL5085-3) : UL916 Energy Management USA & Canada

^{1 =} Class 2 (UL Approved UL5085-3): UL916 Energy Management USA & Canada: UL508 Industrial Control Equipment

^{* =} Kills power to entire unit: Outlets, Aux. Output, & Transformer; Total Combined Output 9A

^{# =} Convenience outlet has 4 Amp Breaker

AC & DC POWER SUPPLIES

PREPACKAGED AC POWER SUPPLY KITS Product Selection Guide. For full product information, see our website. SUB-PANEL / AUX TRANS-INPUT 120 VAC OUTPUT ON/OFF MAIN BREAKER ON SECONDARY METAL TRACK SHIPPING FORMER(S) WIDTH DEPTH OUTLETS MODEL# **POWER** HEIGHT WIRE **SWITCH** INPUT POWER * CONFIGURATION HOUSING MOUNT WEIGHT MT212-4 CTRL-PS 40 VA 120 Vac 14.500 7.700 3.900" MH1000 9.220 lb. included SP3803S MHP3903100AB10 Ext. Terminal Strip 100 VA 120 Vac 12.500" 24.500" 6.500" 10 A Switch/Breaker MH3900 31.000 lb. (Polymetal) SP3804S MHP3904100AB10 100 VA 10 A Switch/Breaker 31.000 lb. 120 Vac 12.500" 24.500" 6.500 Ext. Terminal Strip MH3900 (Perforated) SP4604 MHP4604100AB10 100 VA 120 Vac 16.150" 20.000" 10 A Switch/Breaker Ext. Terminal Strip MH4600 31.000 lb. 6.720" (Perforated) SP3803S MHP3903100A100AB10 100 VA, 100 VA 120 Vac 12.500" 24.500" 10 A Switch/Breaker MH3900 33.000 lb. 6.500" Ext. Terminal Strip (Polymetal) SP3804S . MHP3904100A100AB10 100 VA, 100 VA 120 Vac 12.500" 24.500" 6.500" 10 A Switch/Breaker Ext. Terminal Strip MH3900 33.000 lb. (Perforated) SP4604 MHP4604100A100AB10 MH4600 100 VA, 100 VA 120 Vac 16.150" 20.000" 6.720" 10 A Switch/Breaker Ext. Terminal Strip 33.000 lb. (Perforated)

DC POWER SUPPLIES

Product Selection Guide. For full product information, see our website.

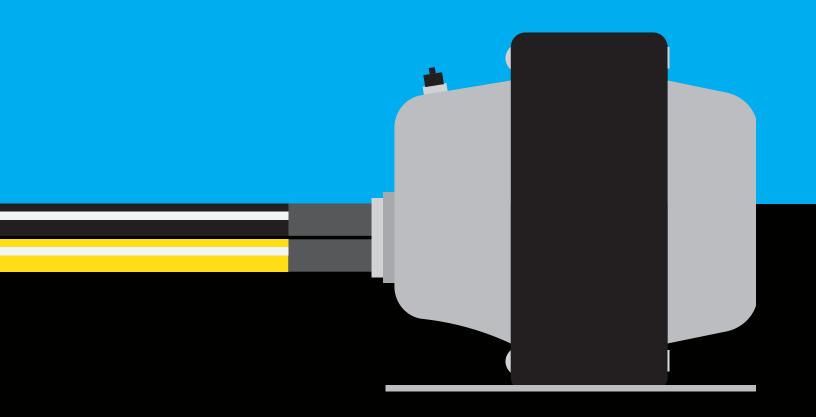
MODEL#	(II)	VOLTAGE INPUT	VOLTAGE OUTPUT	OUTPUT CURRENT	ON/OFF SWITCH	HEIGHT	WIDTH	DEPTH	HOUSING STYLE / TRACK MOUNT	SHIPPING WEIGHT
PSP24DA	•	24 Vac	Adjustable 1.5-28 Vdc; Non-Isolated	300 mA		2.300″	3.200″	1.800″	Enclosed	0.363 lb.
PSH24DWB10		120 Vac	Fixed 24 Vdc; Isolated	2.5 Amp	•	4.500″	5.438"	4.500″	Enclosed	3.000 lb.
PSH100A24DWB10		120 Vac	Fixed 24 Vdc; Isolated 100 VA, 24 Vac	2.5 Amp	•	4.500″	8.625"	4.500″	Enclosed	6.987 lb.
PSMN24DA	•	24 Vac	Adjustable 1.5-28 Vdc; Non-Isolated	300 mA		1.750″	2.750″	1.500″	MT212-2 included	0.169 lb.
PSMN24DAS	•	24 Vac	Adjustable 1.5-28 Vdc; Non-Isolated	300 mA	•	1.750″	2.750″	1.500″	MT212-2 included	0.187 lb.
PSM20A12DAS	•	24 Vac	Adjustable 1.5-14 Vdc; Isolated	300 mA	•	4.000″	2.750″	1.625″	MT212-4 included	1.169 lb.
PSM24A24DAS	•	24 Vac	Adjustable 1.5-28 Vdc; Isolated	300 mA	•	4.000″	2.750″	1.625″	MT212-4 included	1.198 lb.
PSM19A24DAS	•	120 Vac	Adjustable 1.5-28 Vdc; Isolated	300 mA	•	4.000"	2.750″	1.625″	MT212-4 included	1.162 lb.
PSMN40A24DS	•	120 Vac	Fixed 24 Vdc; Isolated	1 Amp	•	5.000″	2.750″	2.500″	MT212-6 included	1.890 lb.

⁽UL Approved UL5085-3): UL916 Energy Management USA & Canada

^{* =} Kills power to entire unit: Outlets, Aux. Output, & Transformer; Total Combined Output 9A

POWER

TRANSFORMERS





US MANUFACTURED TRANSFORMERS

- 40 VA through 96 VA
- Single and dual hub
- Foot or hub mountable
- Circuit breaker models
- Class 2 UL Listed
- 24 Vac secondary
- Single and multi-tap primaries



MADE IN THE U.S.A.

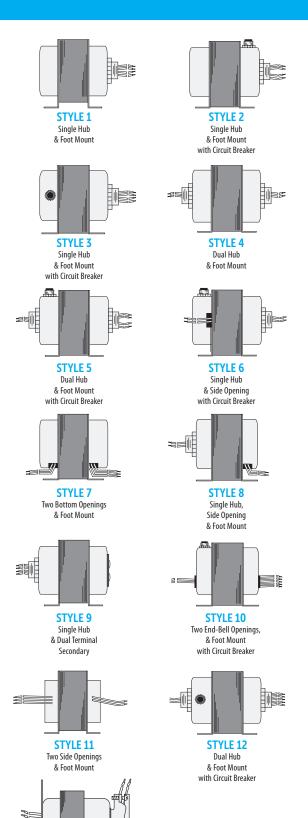
US MANUFACTURED TRANSFORMERS: 40-96 VA

MODEL#	MADE IN USA	(II)	VA RATING	STYLE	OVER CURRENT PROTECTION	CLASS 2	PRIMARY VOLTAGE (VAC)	SEC. VOLTAGE (VAC)	FOOT MOUNT	HUBS	L	W	Н	A	В	С	SHIPPING WEIGHT
TR40VA001US	•	•	40VA	1	Inherent	•	120	24	•	1 Threaded	2.380"	2.200"	2.930"	1.720"	1.750"	.980"	1.770 lb.
TR40VA002US	•	•	40VA	4	Inherent	•	120	24	•	2 Threaded	2.380″	2.200″	2.920″	1.720″	1.750″	.980"	1.780 lb.
TR50VA001US	•	•	50VA	1	Fuse	•	120	24	•	1 Threaded	2.750"	2.200"	2.910"	2.060"	1.750"	1.330"	2.200 lb.
TR50VA005US	•	•	50VA	2	Circuit Brkr.	•	120	24	•	1 Threaded	3.270″	2.525″	3.250″	2.210″	2.000″	1.130″	2.668 lb.
TR50VA022US	•	•	50VA	5	Circuit Brkr.	•	480/277/240/208/120	24	•	2 Threaded	3.260″	2.525″	3.290″	2.190″	2.000″	1.120″	2.760 lb.
TR100VA001US	•	•	96VA	2	Circuit Brkr.	•	120	24	•	1 Threaded	3.780″	2.500″	3.290″	2.740″	2.000″	1.630″	3.570 lb.
TR100VA002US	•	•	96VA	5	Circuit Brkr.	•	120	24	•	2 Threaded	3.750″	2.500″	3.290″	2.690″	2.000″	1.600″	3.600 lb.
TR100VA009US	•	•	96VA	5	Circuit Brkr.	•	480/277/240/208/120	24	•	2 Threaded	3.500″	2.500″	3.250″	2.720″	2.000″	1.630″	3.732 lb.

For more transformers, see page 64.

(VL) = UL Listed: UL5085-2 or UL5085-3; USA & Canada

TRANSFORMERS



STYLE 13
90° Conduit Connector
& Mounting Plate
Opening

Transformers may be foot mount, hub mount, or both.

Transformers with the hub mount option will have either a single threaded hub or dual threaded hubs. Several transformers are provided with a circuit breaker and many are Class 2. Pigtail wires are standard on most models and are typically 8.00° in length.¹

All transformers utilize split-bobbin construction, making them inherently isolated. Custom transformers are also available (contact factory).

Frequency: 50/60 Hz Hub Style: .5" NPT Hub

Wire Length: 8"Typical with .5" Strip ¹
Operating Temperature: -30 to 140° F
Humidity Range: 5 to 95% (noncondensing)

MTBF: 100,000 Hours @ 77° F Construction: Split-Bobbin

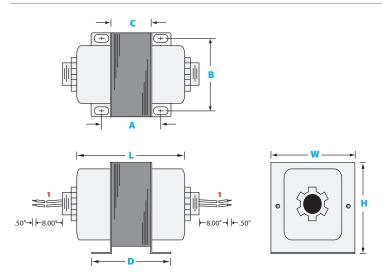
Approvals: CE approved, RoHS. See charts for UL approvals.

1 = TR40VA022 = 8" Primary, 30" Secondary, with .5" Strip TR50VA019 = 28" Typical with .5" Strip TR100VA002-20 = 8" Primary, 20" Secondary, with .5" Strip

Instructions inside product box include wire colors/voltages.

Additional information on voltage and wire colors is available on individual data sheets on website.

Dimensions: See charts.



TRANSFORMERS

TRANSFORMERS: 20-375 VA

MODEL#	(II)	VA RATING	STYLE	OVER CURRENT PROTECTION	CLASS 2	PRIMARY VOLTAGE (VAC)	SEC. VOLTAGE (VAC)	FOOT MOUNT	HUBS	L	w	Н	Α	В	С	D	SHIPPING WEIGHT
TR20VA001	•	20VA	1	Inherent	•	120	24	•	1 Threaded	2.226"	1.877"	2.595"	1.612"	1.619"	1.013"	2.125"	1.331 lb.
TR20VA002	•	20VA	4	Inherent	•	208	24	•	2 Threaded	2.296"	1.902"	2.616"	1.604"	1.665"	1.020"	2.114"	1.363 lb.
TR20VA003	•	20VA	1	Inherent		24	24	•	1 Threaded	2.272"	1.900"	2.628"	1.635"	1.686"	1.023"	2.153"	1.370 lb.
TR20VA004	•	20VA	4	Inherent	•	277/240/208/120	24	•	2 Threaded	2.310"	1.890"	2.625"	1.540"	1.625"	1.000"	2.100"	1.422 lb.
TR20VA007	•	20VA	1	Inherent	•	277	24	•	1 Threaded	2.302"	1.895"	2.607"	1.608"	1.685"	1.019"	2.107"	1.337 lb.
TR40VA001	•	40VA	1	Inherent	•	120	24	•	1 Threaded	2.607"	2.169"	2.906"	2.020"	1.786"	1.204"	2.545"	1.952 lb.
TR40VA002	•	40VA	4	Inherent	•	120	24	•	2 Threaded	2.634"	2.177"	2.886"	2.007"	1.775"	1.206"	2.564"	1.980 lb.
TR40VA003		40VA	1	Inherent	•	24	24		1 Threaded	2.653"	2.171"	2.882"	2.033"	1.779"	1.185"	2.580"	2.018 lb.
TR40VA004	•	40VA	4	Inherent	•	277/240/208/120	24	•	2 Threaded	2.631"	2.177"	2.882"	1.998"	1.774"	1.189"	2.553"	2.127 lb.
TR40VA013		40VA	2	Circuit Brkr.		480/277/240/208	120	•	1 Threaded	3.267"	2.505"	3.000"	1.699"	1.986"	1.114"	2.325"	2.588 lb.
TR40VA015	•	40VA	1	Internal Thermal	•	240/208/120	24	•	1 Threaded	2.628"	2.175"	2.907"	2.040"	1.780"	1.188"	2.590"	2.331 lb.
TR40VA022#		40VA	4	Inherent		120	24		2 Threaded	2.660"	2.172"	2.891"	1.980"	1.786"	1.201"		2.070 lb.
TR40VA040 ^		40VA	9	Internal Thermal		240/208/120	24		1 Threaded	2.728"	2.171"	2.890"	1.995"	1.792"	1.215"		2.315 lb.
TR50VA001		50VA	1	Fuse	•	120	24		1 Threaded	2.677"	2.178"	2.879"	2.109"	1.793"	1.253"		2.132 lb.
TR50VA001		50VA	4	Fuse		120	24		2 Threaded	2.696"	2.181"	2.908"	2.053"	1.788"		2.614"	2.132 lb.
TR50VA002		50VA	4	Fuse		240/208	24		2 Threaded	2.695"	2.181"	2.899"	2.033	1.778"	1.294"		2.219 lb.
	•	50VA	5		•				2 Threaded					1.970"		2.490"	
TR50VA004				Circuit Brkr.		480/277/240/120	24			3.475"	2.513"	3.014"	1.858"				2.840 lb.
TR50VA005		50VA	2	Circuit Brkr.	•	120	24	•	1 Threaded	3.489"	2.515"	3.008"	1.870"	1.971"	1.294"		2.730 lb.
TR50VA006	•	50VA	1	Fuse		277	24		1 Threaded	2.763"	2.182"	2.898"	2.135"	1.790"		2.698"	2.164 lb.
TR50VA007	•	50VA	4	Fuse	•	277	24	•	2 Threaded	2.715"	2.173"	2.886"	2.148"	1.784"	1.276"		2.227 lb.
TR50VA008	•	50VA	5	Circuit Brkr.		480/277/240/208	120	•	2 Threaded	3.440"	2.510"	3.012"	1.932"	1.945"		2.523"	2.866 lb.
TR50VA009	٠	50VA	5	Circuit Brkr.	•	240/208/120	24	•	2 Threaded	3.412"	2.504"	3.014"	1.864"	1.961"	1.313"		2.842 lb.
TR50VA014	•	50VA	2	Circuit Brkr.	•	277	24	•	1 Threaded	3.479"	2.509"	3.009"	1.873"	1.965"	1.285"	2.480"	2.743 lb.
TR50VA015	•	50VA	2	Circuit Brkr.	•	480/277/240/208/120	24	•	1 Threaded	3.405"	2.517"	3.013"	1.875"	1.985"	1.316"	2.484"	2.844 lb.
TR50VA016	•	50VA	2	Circuit Brkr.	•	240/208/120	24	•	1 Threaded	3.345"	2.510"	3.028"	1.842"	1.978"	1.325"	2.454"	2.804 lb.
TR50VA017	٠	50VA	2	Circuit Brkr.	•	480/277/208	24	•	1 Threaded	3.470"	2.520"	3.031"	1.880"	1.872"	1.292"	2.460"	2.812 lb.
TR50VA018		50VA	13			480/277/240/208	120		1, 90° Conduit Connector, 1 Mounting Plate Opening		Re	efer to dat	a sheet or	n website.			3.276 lb.
TR50VA019#	97	50VA	11	Inherent		277/120	24		2 Side Openings	2.470"	2.170"	2.896"	1.850"	1.740"	1 130"	2.512"	2.026 lb.
TR75VA001	.	75VA	2	Circuit Brkr.	•	120	24	•	1 Threaded	3.743"	2.506"	3.016"	2.256"	1.974"	1.711"		3.558 lb.
TR75VA002		75VA	5	Circuit Brkr.		120	24		2 Threaded	3.890"	2.508"	3.013"	2.290"	1.952"	1.701"		3.567 lb.
TR75VA002		75VA	2	Circuit Brkr.		277	24		1 Threaded	3.875"	2.507"	3.037"	2.269"	1.978"	1.684"		3.576 lb.
TR75VA004		75VA	6	Circuit Brkr.		480/240/208/120	24		1 Threaded 1 Side Opening	3.802"	2.515"	3.050"	2.244"	1.990"	1.665"		3.726 lb.
TR75VA005		75VA	2	Circuit Brkr.		480/240/208/120	24		1 Threaded	3.880"	2.515"	3.030"	2.270"	1.975"	1 700"	2.854"	3.724 lb.
TR75VA007		75VA	5	Circuit Brkr.		480/240/208/120	24		2 Threaded	3.883"	2.504"	3.034"	2.287"	1.981"	1.708"	2.887"	3.727 lb.
TR100VA001	•	100VA	2	Circuit Brkr.	•	120	24	•	1 Threaded	4.085"	2.515"	3.030"	2.486"	1.975"		3.082"	3.727 lb.
TR100VA001		100VA	5	Circuit Brkr.		120	24		2 Threaded	4.003	2.504"	3.023"	2.470"	1.975"		3.095"	4.010 lb.
			5	Circuit Brkr.			24										
TR100VA002-20#		100VA	-			120	= :	•	2 Threaded								4.082 lb.
TR100VA004	•	100VA	5	Circuit Brkr.	•	480/277/240/120	24	•	2 Threaded		2.523"	3.041"	2.647"			3.268"	
TR100VA005	•	100VA	2	Circuit Brkr.	•	480/277/240/120	24	•	1 Threaded	4.258"	2.510"	3.030"	2.670"		2.065"		4.496 lb.
TR100VA008	•	100VA	5	Circuit Brkr.		480/277/240/208	120	•	2 Threaded	4.220"	2.525"	3.022"	2.690"			3.272"	
TR100VA009	•	100VA	5	Circuit Brkr.	•	480/277/240/208/120	24	•	2 Threaded	4.270"	2.500"	4.060"	2.750"			2.252"	
TR100VA015	•	100VA	2	Circuit Brkr.	•	480/277/240/208/120	24	•	1 Threaded	4.270"	2.500"	4.060"	2.699"		2.065"		4.524 lb.
TR150VA001	•	150VA	3	Circuit Brkr.		120	24	•	1 Threaded	3.650"	3.800"	3.183"	2.560"	3.150"	1.438"	3.514"	5.073 lb.
TR150VA002	٠	150VA	5	Circuit Brkr.		120	24	•	2 Threaded	3.620"	3.785"	3.160"	2.568"	3.147"	1.456"	3.511"	5.157 lb.
	•	150VA	12	Circuit Brkr.		480/277/240/208	120	•	2 Threaded	4.283"	3.786"	3.161"	3.211"	3.260"	2.116"	4.177"	7.158 lb.
TR150VA008		175VA	7			240/208	24	•	2 Bottom Openings	3.801"	3.790"	3.163"	3.264"	3.141"	2.151"	4.197"	6.980 lb.
	•					120	24	•	2 Threaded	3.800"	3.790"	3.189"	3.220"	3.150"	2.100"	4.180"	7.047 lb.
TR175VA001	•	175VA	4														
TR175VA001	•	175VA 175VA	1	Thermal Fuse on Primary		120	24	•	1 Threaded	4.030"	3.786"	3.161"	3.189"	3.155"			6.935 lb.
TR175VA002	•					120	24		1 Threaded 1 Threaded 1 Bottom Opening	4.030" 3.957"	3.786" 3.750"				2.127"	4.153"	6.935 lb. 8.470 lb.
TR175VA001 TR175VA002 TR175VA003	•	175VA	1						1 Threaded						2.127"	4.153" 4.025"	

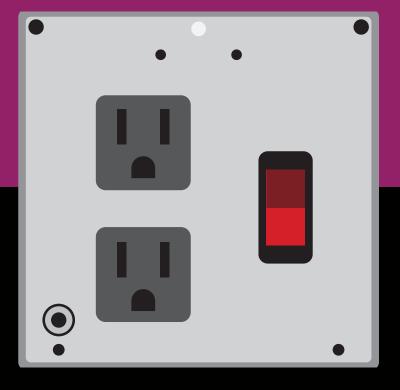
UL = UL Listed: UL5085-2 or UL5085-3; USA & Canada

N = UL Component Recognized : UL5085-2 or UL5085-3 ; USA & Canada # = Refer to website for more wire length information

^{^ =} Dual Terminal Secondary

ANSFORMERS

POWER CONTROL





POWER CONTROL

Enclosed Power Control Centers

- Two 120 Vac grounded convenience outlets
- 4 or 10 Amp switch / circuit breaker
- Outlets can be continuously powered or controlled by the switch / circuit breaker.
- True override switch on load side of relay
- Auxiliary outputs are provided for convenient control panel installations.

Track Mount Circuit Breaker Switches

- Track mount circuit breaker switches provide a convenient addition to control panels.
- Circuits can be low voltage (24 Vac) or line voltage (120 Vac).

Prepackaged Switches

- Standard configurations to provide simple switching schemes.
- Labels can be ordered with custom content to fit your project.

UPS Power Supplies

- Perfect for applications in hospitals, laboratories and research & surgery centers
- Keep your critical controller powered on during a loss of normal utility power with the ability to hardwire line voltage to the provided UPS, in addition to hardwiring the UPS to the final load.
- Kits include: 600 or 850 VA commercial UPS, NEMA 1 metal enclosure, and interface board
- BACnet® compatible model is BTL Certified and includes six objects: Line or UPS power, UPS percent load, VA load, UPS battery capacity, USB connection, and remaining battery time.
- Cords tuck inside enclosure for clean & neat use of a UPS.
- 600 VA UPS is hot-swappable.
- 120 Vac convenience outlet(s) provided
- 10 Amp circuit breaker / switch can be used to test functionality of UPS.
- Switch controls line voltage

POWER CONTROL

ENCLOSED POWER CONTROL CENTERS Product Selection Guide. For full product information, see our website. 120 VAC OUTLETS (4) MODEL# **SWITCH CIRCUIT BREAKER** WIDTH HEIGHT DEPTH WIRES **TERMINALS** SHIPPING WEIGHT PSPT2RB4 On / Off 2 4.000" 4.000" 1.800" 0.608 lb. 4 Amp PSPW2RB4 2 On / Off 4 Amp 4.000" $4.000^{''}$ 1.800" 0.641 lb. On / Off PSPT2RB10 10 Amp 4.000" 4.000" 1.800" 0.616 lb. PSPW2RB10 On / Off 10 Amp 4.000" 4.000" 1.800" 0.660 lb.

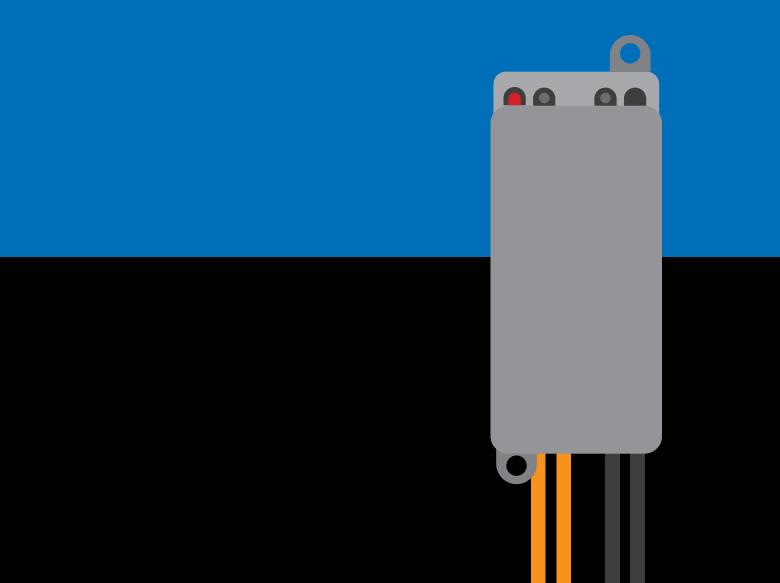
TRACK MO	OUN	IT CIRCUI	T BREA	KER S	Product Selection Guide. For full product information, see our website						
MODEL#	(II)	POWER INPUT	SWITCH	LED	CIRCUIT BREAKER	HEIGHT	WIDTH	DEPTH	TRACK MOUNT	SHIPPING WEIGHT	
PSMN01SB4	•	120 Vac	0n / 0ff	•	4 Amp	2.750″	1.350″	2.061″	MT212-2 included	0.166 lb.	
PSMN01SB10	•	120 Vac	0n / Off	•	10 Amp	2.750″	1.350″	2.061″	MT212-2 included	0.180 lb.	
PSMN24SB4	•	24 Vac	On / Off	•	4 Amp	2.750″	1.350″	2.061″	MT212-2 included	0.168 lb.	
PSMN24SB10	•	24 Vac	0n / 0ff	•	10 Amp	2.750″	1.350″	2.061″	MT212-2 included	0.162 lb.	

PREPA	CKA	GED SI	NITCHES		Р	roduct Sele	ection Guid	de. For full pr	oduct information, see	our website.
MODEL#	(IL)	RELAY CONTACTS	SWITCH	SWITCH RATING	HEIGHT	WIDTH	DEPTH	ENCLOSED	TRACK MOUNT	SHIPPING WEIGHT
PSMS1	•	1 SPST	Maintained 3 Position	5 Amp @ 30 Vac/dc	1.275″	4.000″	1.750″		MT4 Series sold separately	0.107 lb.
SIB02S	•	1 SPDT	Maintained 3 Position	20 Amp @ 277 Vac	1.700″	2.800″	1.500″	•		0.290 lb.
SIB04S	•	1 SPDT	Maintained 2 Position (On / On)	20 Amp @ 277 Vac	1.700″	2.800″	1.500″	•		0.292 lb.
SIB05S	•	1 SPST	Maintained 2 Position (On / Off)	20 Amp @ 277 Vac	1.700″	2.800″	1.500″	•		0.253 lb.
SIBLS	•	1 SPDT	Maintained 3 Position	5 Amp @ 30 Vac/dc	1.700″	2.800″	1.500″	•		0.273 lb.

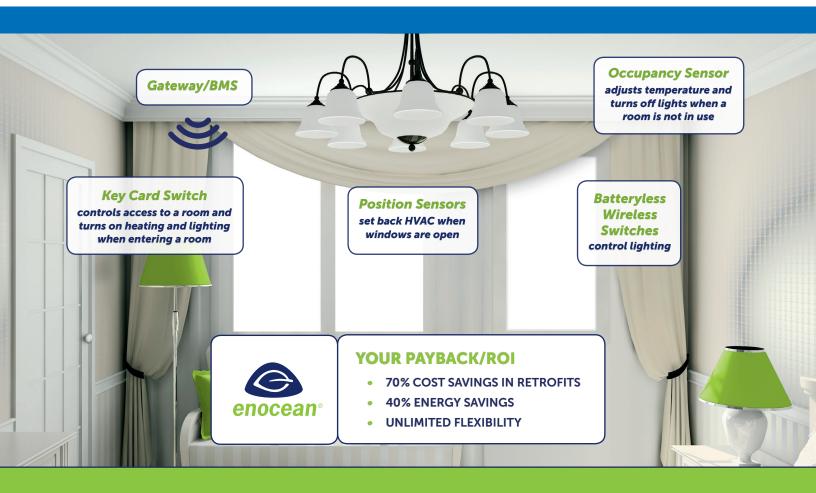
UPS POWER S	<u>UP</u>	PLIE	<u> </u>			Product :	Product Selection Guide. For full product information, see our website.								
MODEL#	(I I)	STATUS	UPS	CIRCUIT BREAKER	120 VAC OUTLET(S)	COMPATIBLE	KIT	ENCLOSED	TRACK MOUNT	HEIGHT	WIDTH	DEPTH	SHIPPING WEIGHT		
PSH600-UPS (Kit)			600 VA	•	•		N/A	•		12.000″	14.000″	6.000″	23.180 lb.		
PSH2RB10	•			•	•		PSH600-UPS	•		12.000″	14.000″	6.000″	12.560 lb.		
PSM2RB10	•			•	•		PSH600-UPS		MT4-4N included	4.000″	3.250″	1.750″	0.880 lb.		
PSH600-UPS-STAT (Kit)		•	600 VA	•	•		N/A	•		12.000″	16.000″	6.000″	24.100 lb.		
PSH2C2RB10	•	•		•	•		PSH600-UPS-STAT	•		12.000″	16.000″	6.000″	14.060 lb.		
PSMN2C2RB10	•	•		•	•		PSH600-UPS-STAT		MT212-6N included	2.750"	6.655"	1.750″	0.984 lb.		
PSH850-UPS-STAT (Kit)		•	850 VA	•	•		N/A	•		14.000″	16.000″	6.000″	34.800 lb.		
PSH2C2RB10-L	•	•		•	•		PSH850-UPS-STAT	•		14.000″	16.000″	6.000″	16.290 lb.		
PSH600-UPS-BC (Kit)		•	600 VA	•	•	•	N/A	•		12.000″	16.000″	6.000″	24.262 lb.		

UL Listed: UL916 Energy Management; UL Listed Canada

WIRELESS DEVICES



HVAC & Lighting Energy Management



902 MHz • Maintenance-free

Flexibility of applications • Time saving

Cost savings in installation, renovation, and energy usage

Many hotels keep their rooms at a comfortable temperature for the duration of their guests' stays – whether the guests are in or out of their room. With guest comfort as a priority, hotels and motels typically use almost 40 percent of their electricity on heating and cooling rooms, even though studies show that most sold rooms are unoccupied for 12 or more hours a day. Used correctly, the right controls could offer significant energy savings without compromising the comfort of guests.

Information from: EnOcean® Alliance & ENERGY STAR Building Upgrade Manual

ENOCEAN® ENABLED WIRELESS DEVICES



EnOcean® Enabled Wireless RIB® Relay Receivers & Transceivers work in conjunction with many 902 MHz EnOcean® enabled transmitters.

Wireless wall switches, occupancy sensors, thermostats, key card switches, and patio & door switches are all devices which can activate the RIB® Wireless Control Relays by using EnOcean's "energy harvesting" technology. Energy harvesting refers to the process by which energy is captured and stored, then used to transmit a wireless signal, which in turn is received by the RIB® Wireless Relay.

WIRELESS CONTROL RELAYS Product Selection Guide. For full product information, see our website.

		COILV	OLTAGE		CONTACT RATINGS								
MODEL#	(II)	AC/DC	AC	RELAY CONTACTS	RESISTIVE	MOTOR	PILOT DUTY	REPEAT FUNCTION	DRY CONTACT INPUT	DIMMER FUNCTION	HOUSING STYLE *	FREQUENCY	SHIPPING WEIGHT
RIBW01B-EN3	•		120	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	•		В	902 MHz	0.660 lb.
RIBW208B-EN3	•		208	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	•		В	902 MHz	0.658 lb.
RIBW240B-EN3	•		240	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	•		В	902 MHz	0.660 lb.
RIBW277B-EN3	•		277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	•		В	902 MHz	0.657 lb.
RIBW24B-EN3	•	24		1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•	•		В	902 MHz	0.648 lb.
RIBW21BAO-EN3	•		120-277	1 SPDT	20 A @ 277 Vac	2 HP @ 277 Vac	1,110 VA @ 277 Vac	•		•	В	902 MHz	0.660 lb.
RIBW01C-EN3	•		120	1 SPST	5 A Ballast @ 120)/277 Vac; 5 A Elec	Ballast @ 120 Vac	•			Ballast size	902 MHz	0.318 lb.
RIBW02C-EN3	•		208-277	1 SPST	5 A Ballast @ 120)/277 Vac; 5 A Elec	Ballast @ 120 Vac	•			Ballast size	902 MHz	0.280 lb.

WIRELESS TRANSMITTERS Product Selection Guide. For full product information, see our website.

DESCRIPTION	POWER INPUT	ENOCEAN® ENERGY HARVESTING	FREQUENCY	COLOR	SHIPPING WEIGHT
Wall switch with barrier & cover plate	Self-Powered	•	902 MHz	White	0.288 lb.
Door and window switch	Light-Powered	•	902 MHz	White	0.217 lb.
Keycard switch	Self-Powered	•	902 MHz	White	0.360 lb.
Occupancy / vacancy sensor, ceiling mount	Light-Powered	•	902 MHz	White	0.288 lb.
Occupancy / vacancy sensor, wall mount	Light-Powered	•	902 MHz	White	0.288 lb.
	Wall switch with barrier & cover plate Door and window switch Keycard switch Occupancy / vacancy sensor, ceiling mount	Wall switch with barrier & cover plate Door and window switch Keycard switch Occupancy / vacancy sensor, ceiling mount Light-Powered Light-Powered	DESCRIPTION POWER INPUT HARVESTING Wall switch with barrier & cover plate Self-Powered • Door and window switch Light-Powered • Keycard switch Self-Powered • Occupancy / vacancy sensor, ceiling mount Light-Powered •	DESCRIPTION POWER INPUT HARVESTING FREQUENCY Wall switch with barrier & cover plate Self-Powered • 902 MHz Door and window switch Light-Powered • 902 MHz Keycard switch Self-Powered • 902 MHz Occupancy / vacancy sensor, ceiling mount Light-Powered • 902 MHz	DESCRIPTION POWER INPUT HARVESTING FREQUENCY COLOR Wall switch with barrier & cover plate Self-Powered • 902 MHz White Door and window switch Light-Powered • 902 MHz White Keycard switch Self-Powered • 902 MHz White Occupancy / vacancy sensor, ceiling mount Light-Powered • 902 MHz White

(IL) = UL Listed : UL916 Energy Management ; USA & Canada

^{* =} See Housing Guide on pages 86-87

ENCLOSURES





ENCLOSURES

Metal & Plastic Enclosures

- NEMA 1 or NEMA 4/4X rated
- Various sizes available
- Multiple knockouts on many models
- Vertically and horizontally stackable
- Available with perforated steel or polymetal sub-panels or track mount
- Several cover and door configurations
- Grey finish
- Blue housings available (consult factory)
- Made in the USA
- UL Listed







ENCLOSURES

ENCLOSURES

Product Selection Guide. For full product information, see our website.

MODEL#	(l)	ENCLOSURE	HOUSING MATERIAL	SUB-PANEL	TRACK MOUNT	NEMA RATING	COVER / DOOR	HEIGHT	WIDTH	DEPTH	GAUGE	SHIPPING WEIGHT
PE6000	•	PE6000	Plastic			NEMA 1	Screw Down Cover	4.28″	7.00″	2.00″		0.645 lb.
PE6010	•	PE6000	Plastic		MT4-4	NEMA 1	Screw Down Cover	4.28″	7.00″	2.00″		0.743 lb.
PE6020	•	PE6000	Plastic		MT212-6	NEMA 1	Screw Down Cover	4.28″	7.00″	2.00″		0.769 lb.
PE6000-N4	•	PE6000-N4	Plastic			NEMA 4/4X	Screw Down Cover	4.28″	7.00″	2.00″		0.656 lb.
PE6010-N4	•	PE6000-N4	Plastic		MT4-4	NEMA 4/4X	Screw Down Cover	4.28″	7.00″	2.00″		0.717 lb.
PE6020-N4	•	PE6000-N4	Plastic		MT212-6	NEMA 4/4X	Screw Down Cover	4.28"	7.00″	2.00"		0.769 lb.
MH1000	•	MH1000	Metal			NEMA 1	Screw Down Cover	14.50″	7.70″	3.90″	18	5.940 lb.
MH1010	•	MH1000	Metal		MT4-12	NEMA 1	Screw Down Cover	14.50"	7.70"	3.90"	18	6.460 lb.
MH1020	•	MH1000	Metal		MT212-12	NEMA 1	Screw Down Cover	14.50"	7.70"	3.90"	18	6.000 lb.
MH1200	•	MH1200	Metal			NEMA 1	Screw Down Cover	8.30"	7.70"	3.90"	18	3.914 lb.
MH1210	•	MH1200	Metal		MT4-8	NEMA 1	Screw Down Cover	8.30"	7.70"	3.90"	18	4.060 lb.
MH1220	•	MH1200	Metal		MT212-8	NEMA 1	Screw Down Cover	8.30"	7.70"	3.90"	18	4.000 lb.
MH2204-N4	•		Metal	14 Gauge Steel		NEMA 4/4X	Hinge Key Latch Door	9.84″	7.87″	3.98″	16	7.300 lb.
MH3100-M1	•		Metal		6 Threaded Studs	NEMA 1	Screw Down Cover	12.00″	12.00″	6.00″	16	12.120 lb.
MH3204-N4	•		Metal	14 Gauge Steel		NEMA 4/4X	Hinge Key Latch Door	15.75″	11.81″	5.91″	16	17.070 lb.
MH3300	•	MH3300	Metal			NEMA 1	Vertical Lift Screw Down Cover	12.50″	12.50″	7.00″	18	10.540 lb.
MH3300K	•	MH3300K	Metal			NEMA 1	Vertical Lift Key Latch	12.50″	12.50″	7.00″	18	10.680 lb.
MH3303	•	MH3300	Metal	SP3303 #		NEMA 1	Vertical Lift Screw Down Cover	12.50″	12.50″	7.00″	18	11.740 lb.
MH3304	•	MH3300	Metal	SP3304 ^		NEMA 1	Vertical Lift Screw Down Cover	12.50″	12.50″	7.00″	18	12.100 lb.
MH3303K	•	MH3300K	Metal	SP3303 #		NEMA 1	Vertical Lift Key Latch	12.50″	12.50″	7.00″	18	11.920 lb.
MH3304K	•	MH3300K	Metal	SP3304 ^		NEMA 1	Vertical Lift Key Latch	12.50″	12.50″	7.00″	18	12.520 lb.
MH3500	•	MH3500	Metal			NEMA 1	Reversible Hook Hinge Key Latch Door	24.50"	10.25″	3.90″	18	11.100 lb.
MH3510	•	MH3500	Metal		MT4-24	NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	10.25″	3.90″	18	11.700 lb.
MH3520	•	MH3500	Metal		MT212-24	NEMA 1	Reversible Hook Hinge Key Latch Door	24.50"	10.25″	3.90″	18	11.540 lb.
MH3800	•	MH3800	Metal			NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	12.50″	6.50″	18	16.580 lb.
MH3810	•	MH3800	Metal		MT4-18	NEMA 1	Reversible Hook Hinge Key Latch Door	24.50"	12.50″	6.50″	18	16.860 lb.
MH3820	•	MH3800	Metal		MT212-18	NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	12.50″	6.50″	18	16.800 lb.
MH3803S	•	MH3800	Metal	SP3803S#		NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	12.50″	6.50″	18	18.190 lb.
MH3803L	•	MH3800	Metal	SP3803L #		NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	12.50″	6.50″	18	18.510 lb.
MH3804S	•	MH3800	Metal	SP3804S ^		NEMA 1	Reversible Hook Hinge Key Latch Door	24.50"	12.50″	6.50″	18	19.630 lb.
MH3804L	•	MH3800	Metal	SP3804L ^		NEMA 1	Reversible Hook Hinge Key Latch Door	24.50″	12.50″	6.50″	18	19.890 lb.
MH4400	•	MH4400	Metal			NEMA 1	Full Hinge Key Latch Door	18.00"	18.00″	7.00″	16	22.760 lb.
MH4403L	•	MH4400	Metal	SP4403L #		NEMA 1	Full Hinge Key Latch Door	18.00″	18.00″	7.00″	16	24.866 lb.
MH4404L	•	MH4400	Metal	SP4404L ^		NEMA 1	Full Hinge Key Latch Door	18.00"	18.00″	7.00″	16	26.260 lb.
MH4604S	•	MH4600	Metal	Perforated Steel		NEMA 1	Hinge Key Latch Door	20.00″	16.15″	6.72"	14	31.000 lb.
MH5500	•	MH5500	Metal			NEMA 1	Full Hinge Key Latch Door	25.00″	25.00″	9.50″	14	50.700 lb.
MH5503L	٠	MH5500	Metal	SP5503L#		NEMA 1	Full Hinge Key Latch Door	25.00″	25.00″	9.50″	14	55.780 lb.
MH5504L	٠	MH5500	Metal	SP5504L ∧		NEMA 1	Full Hinge Key Latch Door	25.00″	25.00″	9.50″	14	59.960 lb.
MH5800	•	MH5800	Metal			NEMA 1	Full Hinge Key Latch Door	36.00″	25.00″	9.50″	14	68.480 lb.
MH5803L	•	MH5800	Metal	SP5803L#		NEMA 1	Full Hinge Key Latch Door	36.00″	25.00″	9.50″	14	74.200 lb.
MH5804L	•	MH5800	Metal	SP5804L ^		NEMA 1	Full Hinge Key Latch Door	36.00″	25.00″	9.50″	14	79.530 lb.

MH3300 SERIES

Polymetal 11.33" H x 11.40" W

• Perforated Steel 11.33" H x 11.40" W

MH3800 SERIES

Polymetal Model S: 19.00" H x 11.75" W Model L: 23.00" H x 11.75" W

Perforated Steel Model S: 19.00" H x 11.75" W Model L: 23.00" H x 11.75" W

MH4400 SERIES

Polymetal 16.875" H x 15.75" W

• Perforated Steel 16.875" H x 15.75" W

MH5500 SERIES

Polymetal 23.00" H x 22.50" W

Perforated Steel 23.00" H x 22.50" W

MH5800 SERIES

Polymetal 34.125" H x 22.50" W

• Perforated Steel 34.125" H x 22.50" W

(UL) = UL Listed: UL916 Energy Management; USA & Canada

ACCESSORIES





ACCESSORIES

Sub-Panels

Two types of sub-panel material are available: polymetal and perforated steel. Both the polymetal and perforated steel sub-panels are Plenum Rated and designed to mount in "MH" metal housing models. The mounting holes are pre-drilled and ready to install. Sub-panels can be ordered pre-installed in your choice of "MH" enclosure. See general specifications of pre-assembled enclosure models on page 77.

Replacement Parts

Replacement parts are available for several products including remote sensors, socket relays, and more.

Mounting Supplies

Mounting options include plastic track for snap-mounting circuit boards. One style of track can be mounted to the back surface of any cabinet and is available in 4.00" or 2.75" widths. Another style of track, AdapTrack®, snaps onto any of the three most popular DIN rails. In turn, it can accomodate a 4.00" wide circuit board. Perforated DIN rail and end stops are also available.

ACCESSORIES

SUB-PANELS

Product Selection Guide. For full product information, see our website.

MODEL#	USE WITH ENCLOSURE	MATERIAL	HEIGHT	WIDTH	THICKNESS	MOUNTING AREA	SHIPPING WEIGHT
SP3303	MH3300 or MH3300K	Polymetal	11.330″	11.400″	.130″	129.16 square inches	0.847 lb.
SP3304	MH3300 or MH3300K	Perforated Steel	11.330″	11.400"	.250″	129.16 square inches	1.662 lb.
SP3803S	MH3800	Polymetal	19.000″	11.750″	.130″	223.25 square inches	1.705 lb.
SP3803L	MH3800	Polymetal	23.000″	11.750″	.130″	270.25 square inches	2.140 lb.
SP3804S	MH3800	Perforated Steel	19.000″	11.750″	.250″	223.25 square inches	2.940 lb.
SP3804L	MH3800	Perforated Steel	23.000"	11.750″	.250″	270.25 square inches	3.520 lb.
SP4403L	MH4400	Polymetal	16.875″	15.750″	.130″	265.78 square inches	2.100 lb.
SP4404L	MH4400	Perforated Steel	16.875"	15.750"	.250″	265.78 square inches	3.415 lb.
SP5503L	MH5500	Polymetal	23.000″	22.500″	.130″	517.50 square inches	3.940 lb.
SP5504L	MH5500	Perforated Steel	23.000″	22.500"	.250″	517.50 square inches	6.560 lb.
SP5803L	MH5800	Polymetal	34.125"	22.500″	.130″	767.81 square inches	5.875 lb.
SP5804L	MH5800	Perforated Steel	34.125"	22.500"	.250″	767.81 square inches	9.720 lb.

MOUNTING SUPPLIES

Product Selection Guide. For full product information, see our website.

MODEL#	<i>7</i> .1	WIDTH	LENGTH	TRACK TYPE	DISTANCE BETWEEN HOLE CENTERS
MT212-2	•	2.75″	2.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-4	•	2.75″	4.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-6	•	2.75″	6.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-8	•	2.75″	8.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-12	•	2.75″	12.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-18	•	2.75″	18.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-24	•	2.75″	24.00"	Screw mounted snap-in track	2.00" Center to Center
MT212-48	•	2.75″	48.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-2	•	4.00″	2.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-4	•	4.00″	4.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-6	•	4.00"	6.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-8	•	4.00"	8.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-10	•	4.00″	10.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-12	•	4.00"	12.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-18	•	4.00″	18.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-24	•	4.00″	24.00"	Screw mounted snap-in track	2.00" Center to Center
MT4-48	•	4.00″	48.00"	Screw mounted snap-in track	2.00" Center to Center
AT4-2	•	4.00″	2.00"	AdapTrack® for DIN rail	3 Most Common for AT4 Series #
AT4-6	•	4.00″	6.00"	AdapTrack® for DIN rail	3 Most Common for AT4 Series #
AT4-12	•	4.00″	12.00"	AdapTrack® for DIN rail	3 Most Common for AT4 Series #
AT4-24	•	4.00″	24.00"	AdapTrack® for DIN rail	3 Most Common for AT4 Series #
AT4-48	•	4.00″	48.00"	AdapTrack® for DIN rail	3 Most Common for AT4 Series #
ADIN35		35 mm	7.5 mm	Perforated DIN rail	25 mm Center to Center

REPLACEMENT & MISCELLANEOUS PARTS

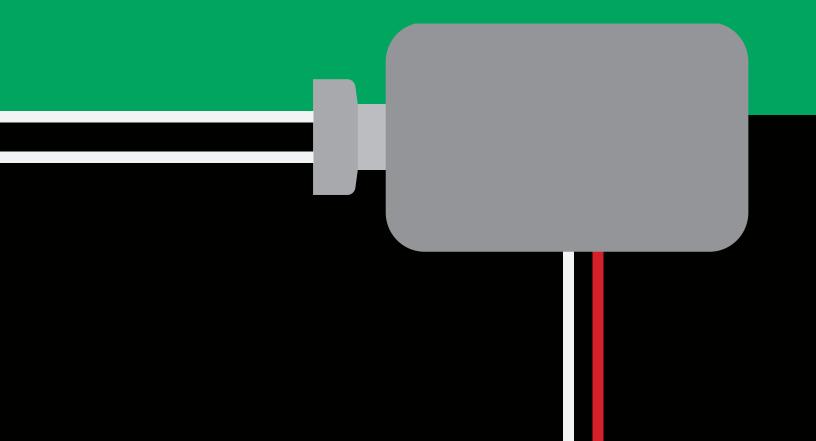
Product Selection Guide. For full product information, see our website.

MODEL#	DESCRIPTION	FOR USE WITH MODEL(S)
ADIN35ES	Pair of End Stops for 35mm DIN Rail	ADIN35
APS53-TC	Primary voltage terminal cover	Functional Devices 300 VA and 500 VA power supplies
AR24D	Replacement relays (3-pack)	RIBR24D, RIBR24SD
ARL1C	Replacement relays (3-pack)	RIBRL1C, RIBRL1S, RIBRXLCA, RIBRXLCF, RIBRXLSA
AWSTFM	Flush surface mount backplate kit	WWS2-EN3
AXG	Split ring remote current sensor assembly (Wire Output)	RIBXJA, RIBXJF, RIBXLCJA, RIBXLCJF, RIBXLSJA, RIBXLSJF
AXGT	Split ring remote current sensor assembly (Terminal Output)	RIBXJA, RIBXJF, RIBXLCJA, RIBXLCJF, RIBXLSJA, RIBXLSJF
AXK	Remote mini current sensor assembly (Wire Output)	RIBXLCRA, RIBXLCRF, RIBXLSRA, RIBXLSRF, RIBXRA, RIBXRF
AXKT	Remote mini current sensor assembly (Terminal Output)	RIBXLCRA, RIBXLCRF, RIBXLSRA, RIBXLSRF, RIBXRA, RIBXRF
DS80625	No. 8 x 5/8" Self-Tapping Drill Screws	Functional Devices polymetal sub-panels
KEYSET	One set of 2 keys	Functional Devices key latch metal enclosures
MKL-1	Locking key latch assembly	Functional Devices metal enclosures except MH3300K
MKL-2	Locking key-hook latch assembly	Functional Devices MH3300K metal enclosures
MKL-3	Metal locking key latch assembly	Functional Devices metal enclosures except MH3300K
MKL-4	Coin locking key latch assembly	Functional Devices metal enclosures except MH3300K
TS-AN	Pluggable terminal strips	RIBAN12C, RIBAN24C

SL = UL Component Recognized ; USA & Canada

= 32 mm x 15 mm asymmetrical DIN rail EN50035; 35 mm x 7.5 mm symmetrical DIN rail EN50022; 22.4 mm x 6.9 mm symmetrical NEMA A Series rail

ENERGY SAVING DEVICES





ENERGY SAVING DEVICES

Half-Light® Ballast Controllers

For Multiple Ballast Fixtures, Step Dimming Control & Alternate Fixture Control Applications

Providing independent control for multiple ballast light fixtures from a single existing wall switch or from a lighting controller output, Half-Light® Ballast Controllers can significantly reduce a building's light output. This enables professional lighting users to enjoy the cost-effective benefits of lighting control with just a simple toggle of their wall-based light switch. Easy to use and install, Half-Light® Ballast Controllers from Functional Devices are fully compatible with the market's range of popular fluorescent and HID lamps. Half-Light® Ballast Controllers are a simple and affordable alternative to the industry's costlier and more complicated dimming systems and components.

HALF-LIGHT® BALLAST CONTROLLERS

Product Selection Guide. For full product information, see our website.

MODEL#	(JL)	POWER INPUT	RELAY CONTACTS	BALLAST SIZE ENCLOSURE	TWO OR THREE STAGE	4 BULB FIXTURES	6 BULB FIXTURES	MULTIPLE BALLAST FIXTURES	STEP DIMMING CONTROL	ALTERNATE FIXTURE CONTROL	SHIPPING WEIGHT
HAF2	•	120 / 208-277 Vac	1 SPST	•	2	•		•	•	•	0.250 lb.
HAF3	•	120 / 208-277 Vac	2 SPST	•	3		•	•	•	•	0.277 lb.

SEE DATA SHEETS FOR MORE INFORMATION ON APPLICATIONS.

(UL) = UL Listed: UL916 Energy Management; USA & Canada

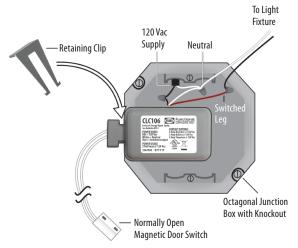
ENERGY SAVING DEVICES

Closet Light Controllers

For Use in Closets, Pantries, Walk-ins, and Cabinets

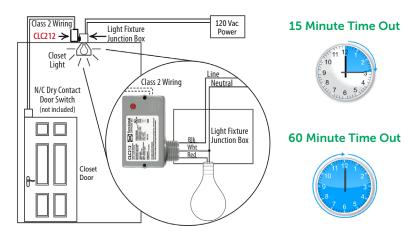
Our Light Controllers are designed to switch lighting loads on and off by the closing or opening of a variety of switches, including door jamb, magnetic, and ball switches. Models are available for retrofit and new contruction jobs, with or without an energy-saving time out setting.

Retrofits



- 5 Amp relay
- 120 Vac power
- Fits easily inside junction box
- · Includes retaining clip
- No transformer needed (dry contact input)
- Model CLC106, CLC106-NC
- Includes magnetic door jamb switch

New Construction



- 10 Amp N/O relay
- 120-277 Vac power
- No transformer needed (dry contact input)
- Light 18 AWG wire used to control relay, instead of armored cable
- Models CLC212, CLC212-D15, CLC212-D60
- Switch sold separately (ACLCMAGSM, ACLCMAGDJ)

CLOSET LIGHT CONTROLLERS

Product Selection Guide. For full product information, see our website.

MODEL #	(IL)	POWER INPUT	RELAY CONTACTS	ACCESSORY SWITCH REQUIRED ^	TIME OUT	OUTPUT WHEN SWITCH OPENS	HOUSING STYLE *	SHIPPING WEIGHT
CLC106	•	120 Vac	1 SPST-N/0	N/O #	N/A	0n	See data sheet	0.271 lb.
CLC106-NC	•	120 Vac	1 SPST-N/C	N/C #	N/A	Off	See data sheet	0.266 lb.
CLC212	•	120-277 Vac	1 SPST-N/0	N/C	N/A	Off	Α	0.301 lb.
CLC212-D15	•	120-277 Vac	1 SPST-N/0	N/0	15 min.	On	Α	0.310 lb.
CLC212-D60	•	120-277 Vac	1 SPST-N/0	N/0	60 min.	0n	А	0.301 lb.

MAGNETIC SWITCHES

Product Selection Guide. For full product information, see our website.

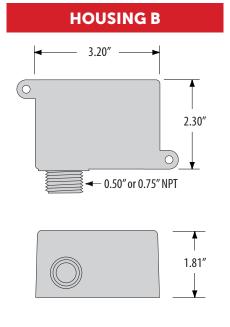
MODEL #	VOLTAGE MAX.	CURRENT MAX.	RELAY CONTACTS	MOUNT	OPERATING GAP (MIN.)	SHIPPING WEIGHT
ACLCMAGSM	30 Vac/dc	0.2 Amp	1 SPDT (Form C)	Surface	1.125"	0.240 lb.
ACLCMAGDJ	200 Vdc	0.5 Amp	1 SPDT (Form C)	Recessed	0.375"	0.033 lb.

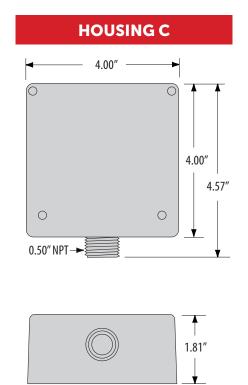
(U) = UL Listed: UL916 Energy Management; USA & Canada

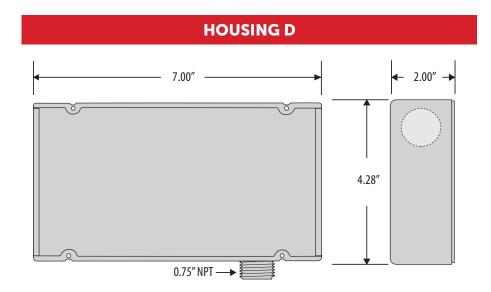
 \wedge = Normal state is when no outside forces (like a magnet) are acting on it.

= Integral switch included \star = See Housing Guide on pages 86-87

HOUSING GUIDE





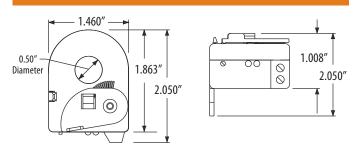


RED ("-RD") and NEMA 4 ("-N4") HOUSINGS AVAILABLE.

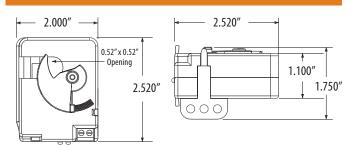
See our website for details.

HOUSING GUIDE

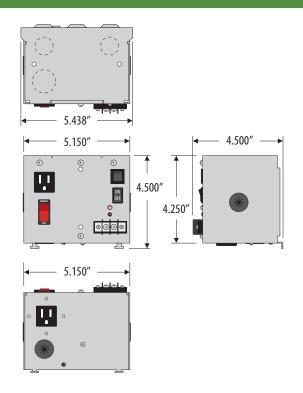
SOLID CORE CURRENT SENSOR



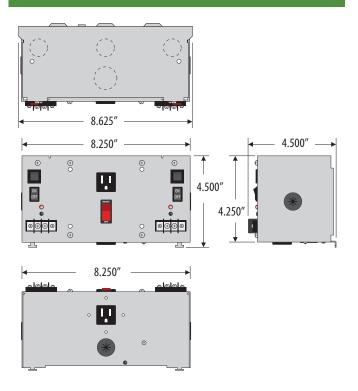
SPLIT CORE CURRENT SENSOR



SINGLE POWER SUPPLY



DUAL POWER SUPPLY



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ACLCMAGDJ	85	MH5500	77	PSH24DWB10	58	RIB01SBDC	41	RIBL24SBM	38
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ADIN35ES	81	MH5800	77	PSH2RB10	69	RIB02P	36	RIBLB	42
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MH3303	77	PE6020-N4	77	PSMN2C2RB10	69	RIBD02BDC-DOB	41	RIBMN12S	35
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MH3304	77	PSB40AB10	57	PSMN40A	57	RIBH1C	34	RIBMN2401D	35
MH3304K	77	PSC100AB10	57	PSMN40A24DS	58	RIBH1CW	35	RIBMN24C	35
MH3500	77	PSC40AB10	57	PSMN40AS	57	RIBH1S	34	RIBMN24C-4T	35
MH3510	77	PSH100A	57	PSMN500A	57	RIBH1SC	34	RIBMN24C-FA	40
MH3520	77	PSH100A100A	57	PSMS1	69	RIBH1SM-250	34	RIBMN24Q2C	42
MH3800	77	PSH100A100AB10	57	PSP24DA	58	RIBH2C	34	RIBMN24Q3C	42
MH3803L	77	PSH100A100AW	57	PSPT2RB10	69	RIBHX24BA	52	RIBMN24Q4C	42
MH3803S	77	PSH100A100AWB10	57	PSPT2RB4	69	RIBHX24BF	52	RIBMN24Q4C-PX	42
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