



Honeywell Micro Global Limit Switch GLS Installation Guide

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Honeywell

Honeywell Micro Global Limit Switch GLS



WARNING:

- Consult with local safety agencies and their requirements when designing a machine-control link, interface, and all control elements that affect safety.
- Strictly adhere to all installation instructions.
- Failure to comply with these instructions could result in death or serious injury.
- Ensure switch actuator achieves sufficient travel for positive opening of normally closed (NC) contacts to occur.
- Failure to comply with these instructions could result in death or serious injury.

1. Refer to:

- Page 5 for adjustments.
- Pages 9 to 18 for specific travel distances for each switch code, and specifications.
- Page 5 proper application of limit switches, and switch mounting dimensions.

2. Perform adjustments (if desired):

- Head orientation, page 5.
- Actuation direction (Figure 2, page 5).
- Side rotary switches with 90° positive drive levers (catalog listings ending in A1A, A1B, A5A, A5B) (Figure 3):
 - Ensure flats of switch shaft engage groove in actuator lever.
 - Tighten locking screw (A) until tab (B) no longer moves.

3. Mount switch using four M5 or #10 screws. Torque screws to 4,9 Nm to 5,9 Nm [43 in-lb to 52 in-lb].

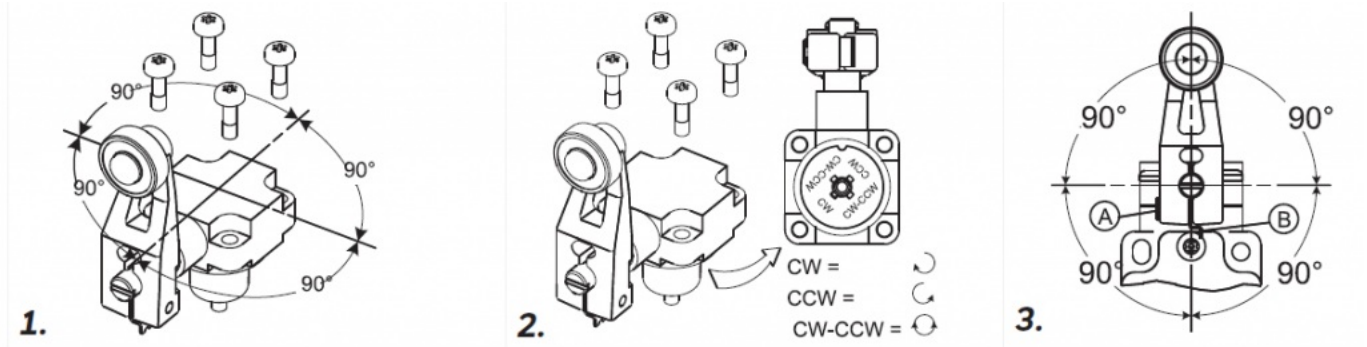
4. Remove screws on cover plate.

5. Connect stranded wire (0,75 mm² to 2,5 mm², 18-14 AWG) or solid wire (0,75 mm² to 1,5 mm², 18-16 AWG) to connector terminals (use 90 °C wire when ambient temperature is over 75 °C). Torque switch terminal screws to 0,8 Nm to 1,0 Nm [7 in-lb to 9 in-lb]. Wire strip length should be 7,3 mm [0.29 in] max.

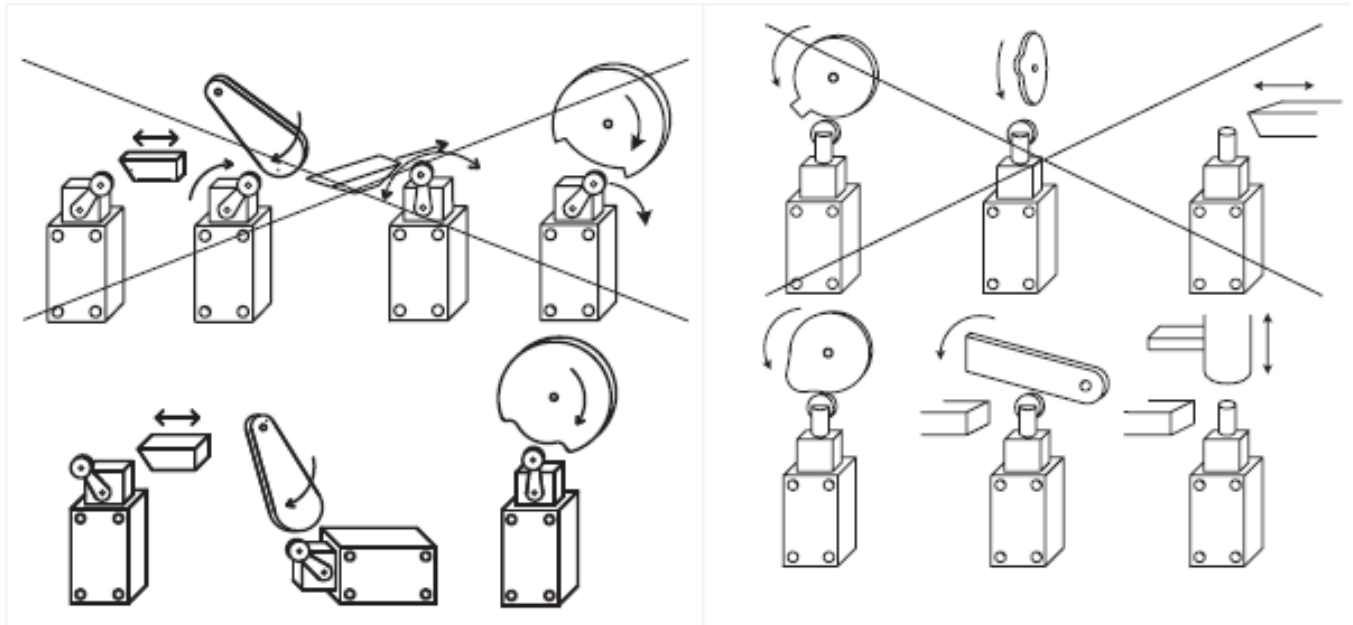
6. Seal conduit opening according to instructions in PK 80112.

7. Reassemble cover plate, and torque cover screws to 0,5 Nm [4.4 in-lb].

FIELD ADJUSTABLE HEAD



OPERATION REQUIREMENTS



TERMS

- Contact Closed
- Contact Open
- Differential Travel
- Free Position
- Operating Position 1
- Positive Opening 1 to IEC 947-5-1
- Differential Travel 1
- Over Travel
- Maximum Operating Force
- Maximum Disconnect Force

READING OPERATING SPECIFICATIONS

FIGURE 1. READING OPERATING SPECIFICATIONS

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating de-greases, max.	Operating de-greases, min.	Max. operate frequency ops/min
GL**01A GL**07A	SNAP-ACTION CONTACTS SINGLE POLE 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
↑	↑	↑	↑	↑	↑	↑	↑
Catalog Listing Code	Contact Block Diagram Shows the circuit configuration of the internal contact block.	Operating Bar Charts Show the state of the contacts relative to the position of the actuator.	Operating Specifications				

PRODUCT

GL	A	A	01	A1A	
Switch Type	Body Style Code	Conduit Entry Threading Code	Basic Switch		Head/Actuator
GL Series Global Limit Switch	A EN50041, non-plug-in	A 1/2-14 NPT	01 SPDT, snap action	26 DPDT, snap action, center neutral	A1 Side rotary, fixed, no roller
	B EN50041, plug-in	B PG 13.5	03 SPDT, BBM slow acting	27 DPDT, snap action, center neutral, Body E	A2 Side rotary, adjustable, no roller
	F EN50041, non-plug-in, LED light box	C 20 mm	04 SPDT, MBB slow acting	28 DPDT, snap action, gold, sequential	A1A Side rotary, fixed, 19 x 6 nylon roller
	G EN50041, plug-in, LED light box	D PF 1/2	05 SPDT, 2NO slow acting	29 DPDT, snap action, center neutral, gold	A1B Side rotary, fixed, 19 x 6 steel roller
	H EN50041, plug-in, LED light box		06 SPDT, 2NC slow acting	30 DPDT, snap act, center neutral, gold, Body E	A1Y Side rotary, fixed, 50 x 10 rubber roller
			07 SPDT, snap action, gold	31 DPDT, snap action, gold, sequen., Body E	A2Y Side rotary, adj., 50 x 10 rubber roller
			20 DPDT, snap action	32 DPDT, snap action, gold cont. Body E	A2A Side rotary, adj., 19 x 6 nylon roller
			21 DPDT, snap action, sequential	33 SPDT, BBM, slow acting, gold contacts	A2B Side rotary, adj., 19 x 6 steel roller
			22 DPDT, snap action, gold contacts	34 SPDT, MBB slow acting, gold contacts	A2D Side rotary, adj., 38 x 6 nylon roller
			24 DPDT, snap action, Body E	35 SPDT, 2NO slow acting, gold contacts	A2W Side rotary, adj., 38 x 12 rubber roller
			25 DPDT, snap action, gold cont. Body E	36 SPDT, 2NC slow acting, gold contacts	
					A3A Side rotary, yoke, 19 x 6 nylon roller
					A3B Side rotary, yoke, 19 x 6 steel roller
					A4J Side rotary, adjust., 200 mm aluminum rod
					A4K Side rotary, adjust., 140 mm aluminum rod
					A4N Side rotary, adjust., 318 mm aluminum rod
					A5A Side rotary, offset, 19 x 6 nylon roller
					A5B Side rotary, offset, 19 x 6 steel roller
					A9A Side rotary, conveyor lever
					B Top pin plunger
					C Top roller plunger
					D Top roller lever
					E7A Wobble, plastic stick
					E7B Wobble, coil
					E7D Wobble, cat whisker
					F Adj. top roller lever, Ø27.3 x 5 POM roller
					K8A Cat whisker, 140 mm
					K8B Cat whisker, 190 mm
					K8C Wobble, cat whisker
					1 CW rotation only
					2 CCW rotation only
					3 Lever to right
					4 Lever to left
					5 Lever to mounting surf.
					6 Roller perpendicular to mtg. surf.

Figure 2. Fixed Lever, Side Rotary Switch – Non-plug-in Body Style, GLZ51 lever, and GLA body

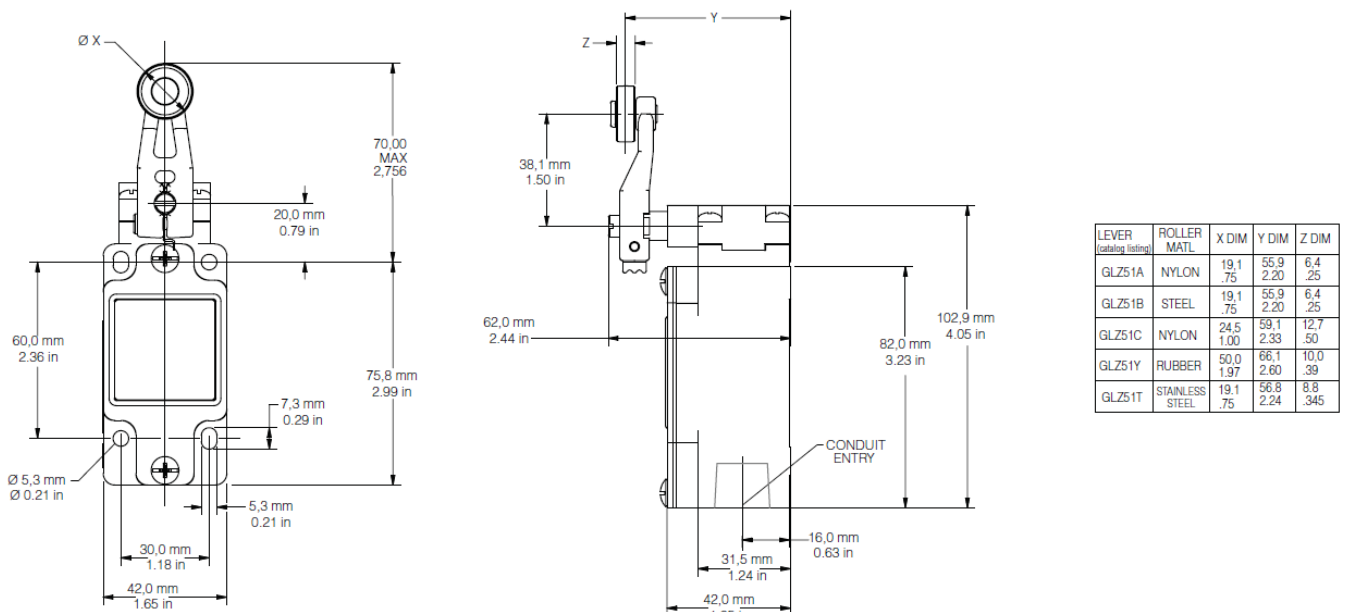


Figure 3. Fixed Lever, Side Rotary Switch – Plug-in Body Style, GLZ51 lever, and GLB body

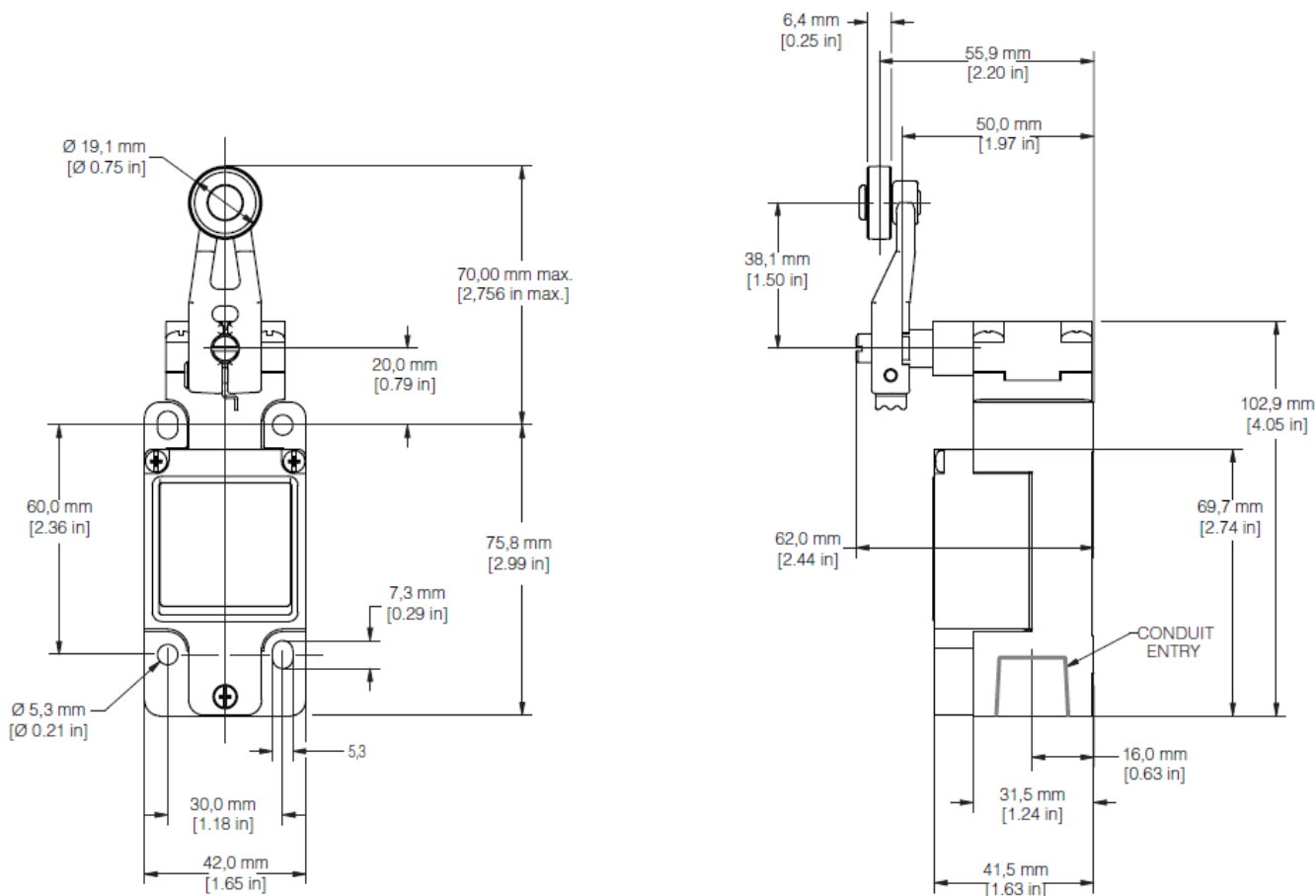


Figure 4. Adjustable Lever Dimensions, GLZ52

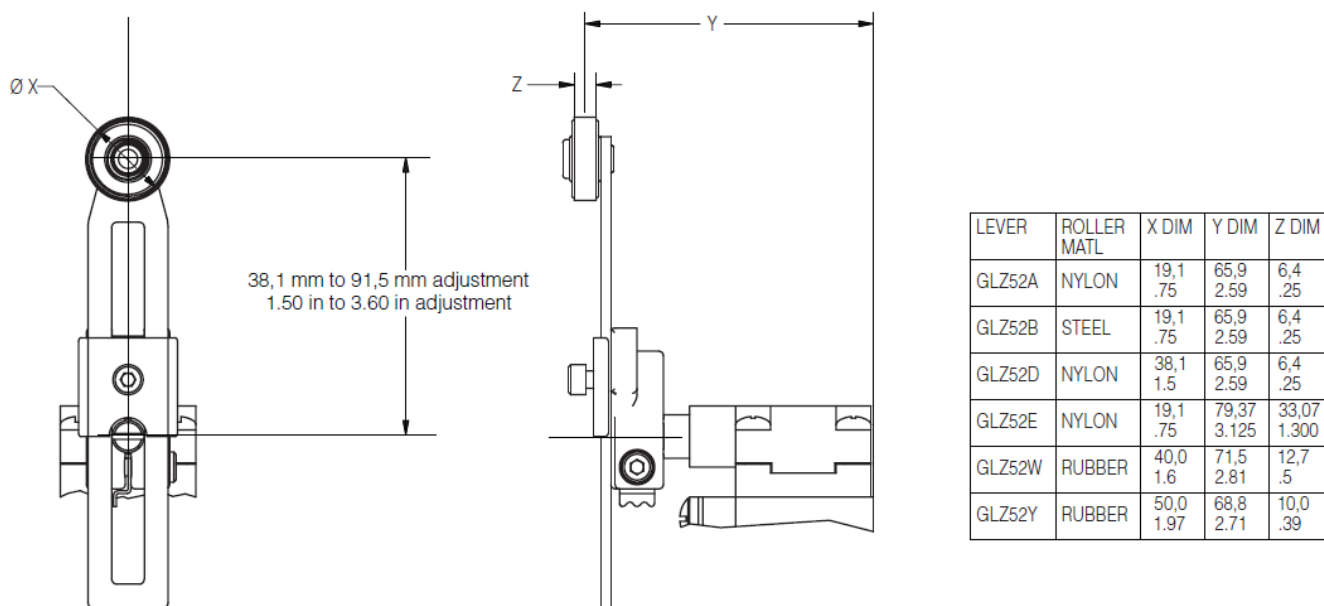
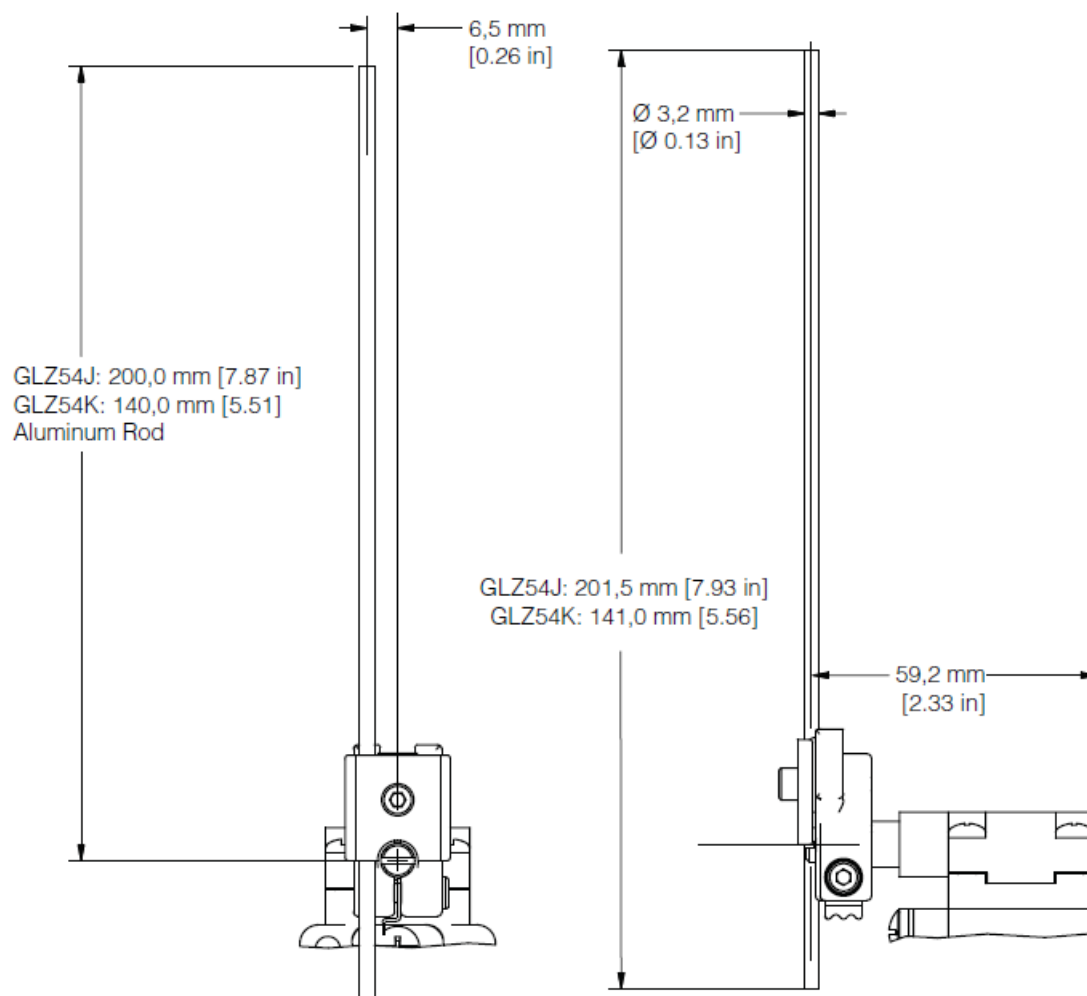


Figure 5. Aluminum Rod Lever Dimensions, GLZ54



Notes:

- Free position, operate point, over travel and pre-travel all to EN 50041
- Operating characteristics apply to counter clockwise (CCW) and clock wise (CW) actuation
- Refer to page 5 for instructions on how to read operating characteristics and specifications

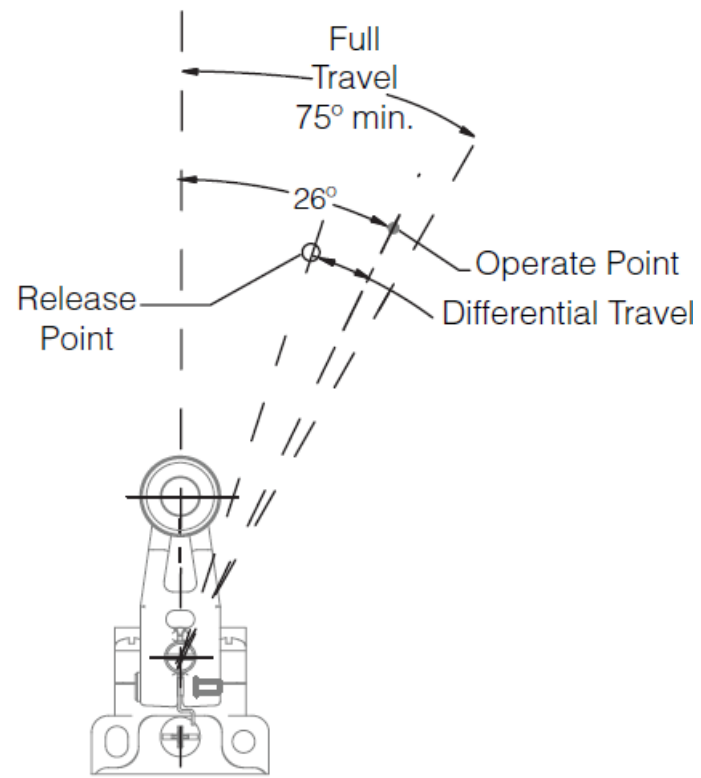


FIGURE 6. HEAD CODE: A

FIGURE 6. HEAD CODE: A
SIDE ROTARY ANGULAR OPERATING CHARACTERISTICS

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> **Positive Opening to IEC 947-5-1	Operating torque max.	Disconnect torque, max.	Operating degrees, max.	Operating degrees, min.	Max. operate frequency ops/min
GL**01A GL**07A	SNAP-ACTION CONTACTS SINGLE POLE 		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 		0.330 Nm [2.9 in-lb]	0.400 Nm [3.5 in-lb]	1290°	13°	250
GL**05A GL**35A	SLOW ACTING 		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**06A GL**36A	SLOW ACTING 		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE 		0.330 Nm [2.9 in-lb]	0.385 Nm [3.4 in-lb]	1290°	13°	250
GL**21A GL**25A GL**28A GL**31A	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 		0.330 Nm [2.9 in-lb]	n/a	1290°	13°	250

Notes:

- Cam travel for adjustable lever applies when lever is adjusted to 38,1 mm [1.5 in]
- Refer to page 5 for instructions on how to read operating characteristics and specifications

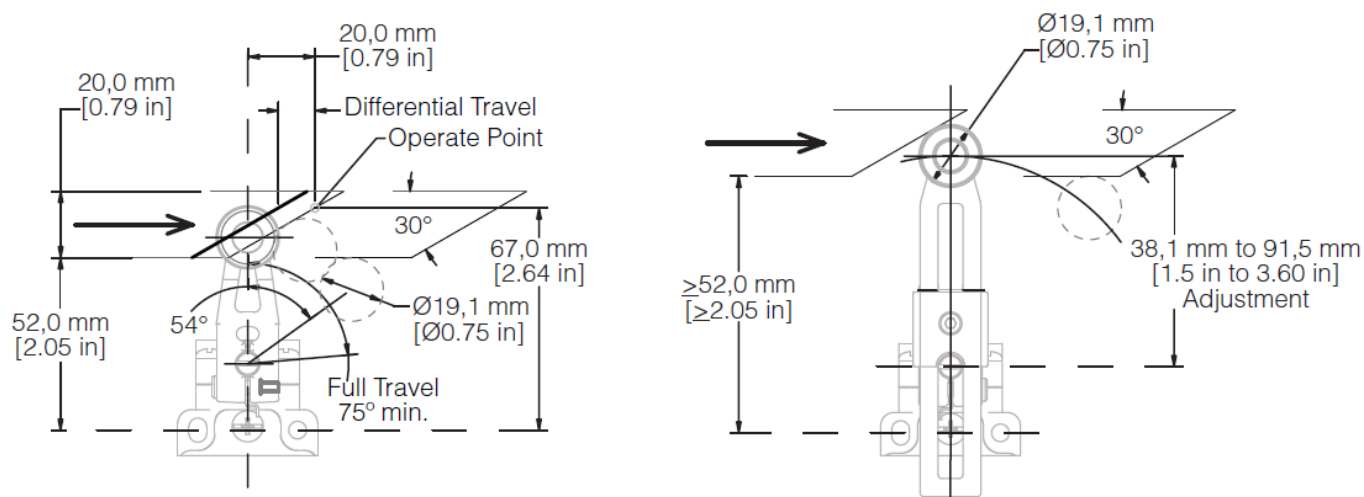


FIGURE 7. HEAD CODE: A • SIDE ROTARY CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS

FIGURE 7. HEAD CODE: A • SIDE ROTARY CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating degrees, max.	Operating degrees, min.	Max. operate frequency ops/min
GL**01A GL**07A	SNAP-ACTION CONTACTS SINGLE POLE 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**03A GL**33A	SLOW ACTING BREAK BEFORE MAKE 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**04A GL**34A	SLOW ACTING MAKE BEFORE BREAK 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**05A GL**35A	SLOW ACTING 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**06A GL**36A	SLOW ACTING 		9,7 N [2.2 lb]	11,4 N [2.6 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**20A GL**22A GL**24A GL**32A	SNAP ACTION CONTACTS DOUBLE POLE 		9,7 N [2.2 lb]	11,8 N [2.7 lb]	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**21A GL**25A GL**28A GL**31A	STEP 1 STEP 2 		9,7 N [2.2 lb]	n/a	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250
GL**26J GL**27J GL**29J GL**30J	CCW CW 		9,7 N [2.2 lb]	n/a	0,85 M/S [33.5 in/S]	8,5 mm/S [0.33 in/S]	250

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

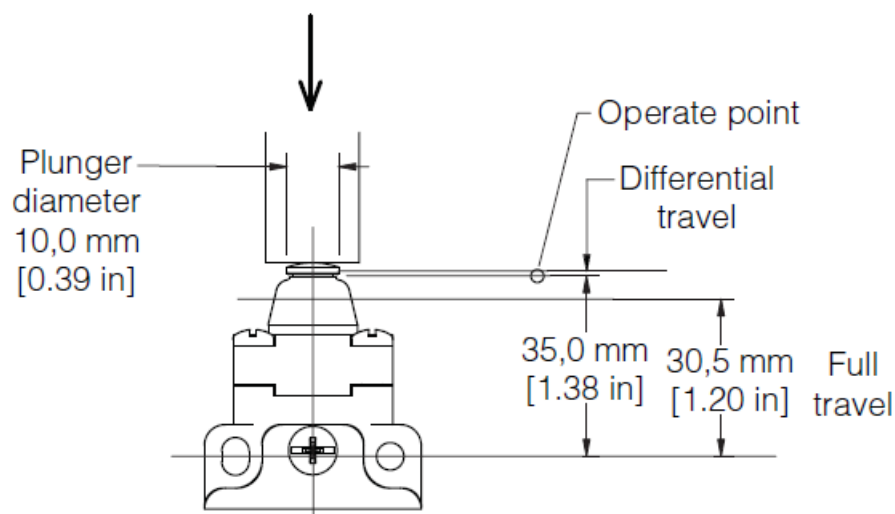


FIGURE 8. HEAD CODE: B
PIN PLUNGER OPERATING CHARACTERISTICS

FIGURE 8. HEAD CODE: B PIN PLUNGER OPERATING CHARACTERISTICS							
Catalog listing	Contact block diagram	Nominal travels and related terminals <div><div>Contact Closed</div><div>Contact Open</div><div>Diff. Travel</div></div> **Positive Opening to IEC 947-5-1	Operating torque max.	Disconnect torque, max.	Operating degrees, max.	Operating degrees, min.	Max. operate frequency ops/min
GL**01B GL**07B	SNAP-ACTION CONTACTS SINGLE POLE 	<div><div>37.5</div><div>35</div><div>33**</div><div>30.5</div></div> <div><div>21-22</div><div>13-14</div></div> <div>0.9 Differential travel</div>	16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**03B GL**33B	SLOW ACTING BREAK BEFORE MAKE 	<div><div>37.5</div><div>35**</div><div>30.5</div></div> <div><div>21-22</div><div>13-14</div></div> <div>34</div>	16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**04B GL**34B	SLOW ACTING MAKE BEFORE BREAK 	<div><div>37.5</div><div>34**</div><div>30.5</div></div> <div><div>21-22</div><div>13-14</div></div> <div>35</div>	16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**05B GL**35B	SLOW ACTING 	<div><div>37.5</div><div>34</div><div>30.5</div></div> <div><div>13-14</div><div>23-24</div></div>	16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**06B GL**36B	SLOW ACTING 	<div><div>37.5</div><div>35**</div><div>30.5</div></div> <div><div>11-12</div><div>21-22</div></div> <div>34</div>	16 N [3.6 lb]	27 N [6.0 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**20B GL**22B GL**24B GL**32B	SNAP ACTION CONTACTS DOUBLE POLE 	<div><div>37.5</div><div>35</div><div>33**</div><div>30.5</div></div> <div><div>11-12, 21-22</div><div>13-14, 23-24</div></div> <div>0.9 Differential travel</div>	16 N [3.6 lb]	37 N [8.2 lb]	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250
GL**21B GL**25B GL**28B GL**31B	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 	<div><div>37.5</div><div>35</div><div>33.8</div><div>30.5</div></div> <div><div>11-12</div><div>13-14</div><div>21-22</div><div>23-24</div></div> <div>0.8 Differential travel</div> <div>0.8 Differential travel</div>	16 N [3.6 lb]	n/a	0,1 M/S [3.9 in/S]	1,0 mm/S [0.04 in/S]	250

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

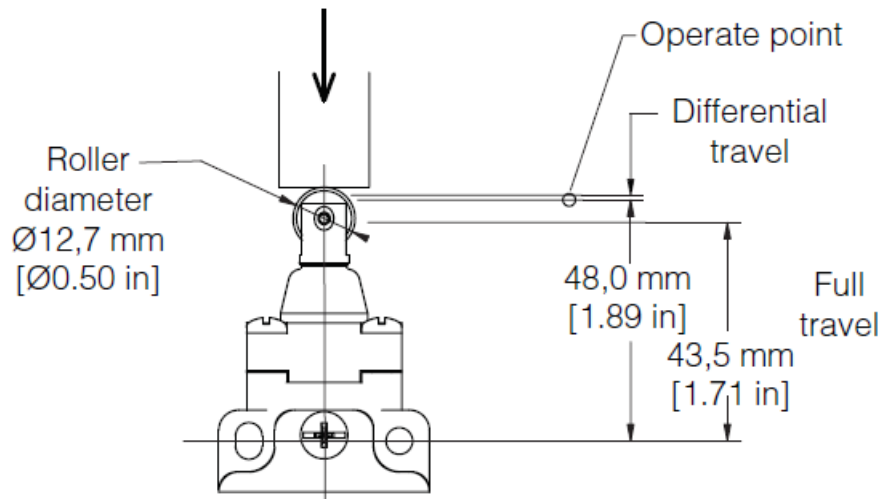


FIGURE 9. HEAD CODE: C
TOP ROLLER PLUNGER PIN ACTUATION OPERATING CHARACTERISTICS

FIGURE 9. HEAD CODE: C TOP ROLLER PLUNGER PIN ACTUATION OPERATING CHARACTERISTICS							
Catalog listing	Contact block diagram	Nominal travels and related terminals ■ Contact Closed ■ Contact Open ■ Diff. Travel **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
GL**01C GL**07C	SNAP-ACTION CONTACTS SINGLE POLE Zb	50.5 48 46** 43.5 21-22 13-14 0.9 Differential travel	16 N [3.6 lb]	27 N [6.0 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE Zb	50.5 48** 43.5 21-22 13-14 0.7	16 N [3.6 lb]	27 N [6.0 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK Zb	50.5 47** 43.5 21-22 13-14 0.8	16 N [3.6 lb]	27 N [6.0 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**05C GL**35C	SLOW ACTING 2X	50.5 47 43.5 13-14 23-24 0.8	16 N [3.6 lb]	27 N [6.0 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**06C GL**36C	SLOW ACTING 2Y	50.5 48** 43.5 11-12 21-22 0.8	16 N [3.6 lb]	27 N [6.0 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE Zb	50.5 48 46** 43.5 11-12, 21-22 13-14, 23-24 0.9 Differential travel	16 N [3.6 lb]	37 N [8.2 lb]	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250
GL**21C GL**25C GL**28C GL**31C	STEP 1 Zb STEP 2 Zb	50.5 48 45.8 43.5 11-12 13-14 21-22 23-24 0.8 Differential travel	16 N [3.6 lb]	n/a	0.1 M/S [3.9 in/S]	1.0 mm/S [0.04 in/S]	250

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

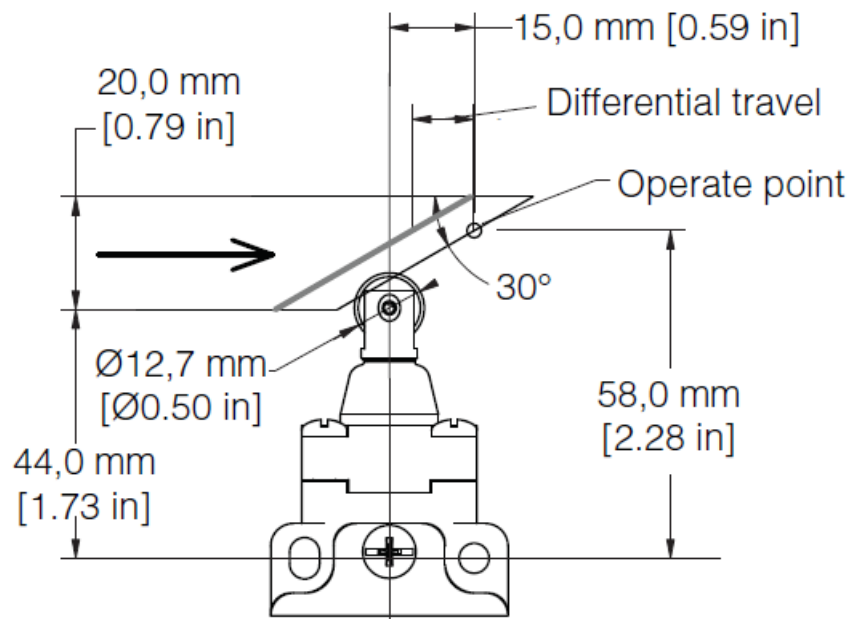


FIGURE 10. HEAD CODE: C
ROLLER PLUNGER CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS

**FIGURE 10. HEAD CODE: C
ROLLER PLUNGER CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS**

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
GL**01C GL**07C	SNAP-ACTION CONTACTS SINGLE POLE 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**03C GL**33C	SLOW ACTING BREAK BEFORE MAKE 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**04C GL**34C	SLOW ACTING MAKE BEFORE BREAK 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**05C GL**35C	SLOW ACTING 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**06C GL**36C	SLOW ACTING 		9,3 N [2.1 lb]	15,6 N [3.5 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**20C GL**22C GL**24C GL**32C	SNAP ACTION CONTACTS DOUBLE POLE 		9,3 N [2.1 lb]	21,4 N [4.8 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**21C GL**25C GL**28C GL**31C	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 		9,3 N [2.1 lb]	n/a	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

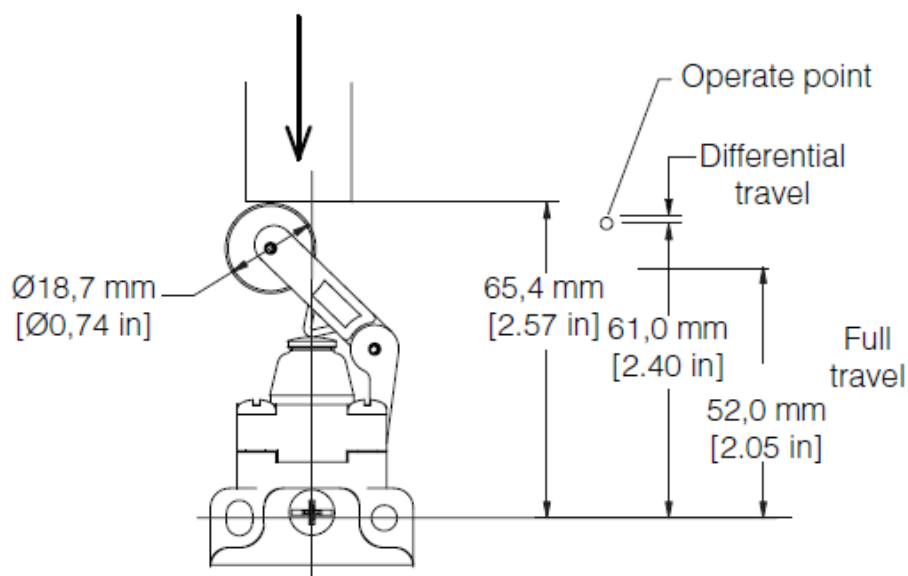


FIGURE 11. HEAD CODE: D
TOP ROLLER LEVER PIN ACTUATION OPERATING CHARACTERISTICS

FIGURE 11. HEAD CODE: D
TOP ROLLER LEVER PIN ACTUATION OPERATING CHARACTERISTICS

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
GL**01D GL**07D	SNAP-ACTION CONTACTS SINGLE POLE 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**03D GL**33D	SLOW ACTING BREAK BEFORE MAKE 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**04D GL**34D	SLOW ACTING MAKE BEFORE BREAK 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**05D GL**35D	SLOW ACTING 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**06D GL**36D	SLOW ACTING 		9,5 N [2.1 lb]	12 N [2.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**20D GL**22D GL**24D GL**32D	SNAP ACTION CONTACTS DOUBLE POLE 		9,5 N [2.1 lb]	16,4 N [3.7 lb]	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250
GL**21D GL**25D GL**28D GL**31D	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL 		9,5 N [2.1 lb]	n/a	0,17 M/S [6.7 in/S]	1,7 mm/S [0.067 in/S]	250

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

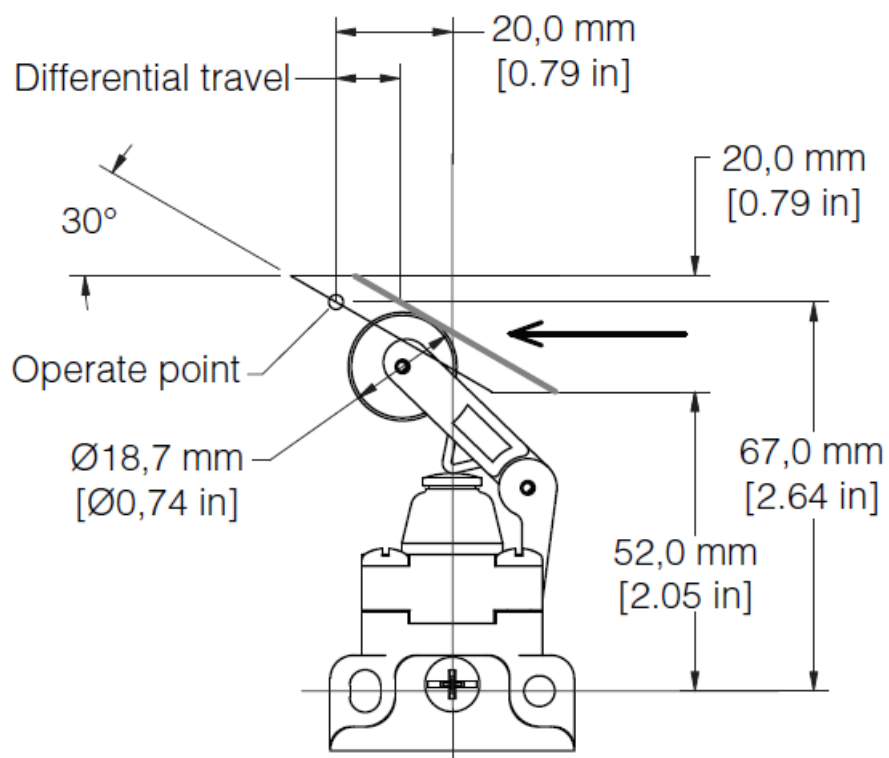


FIGURE 12. HEAD CODE: D
TOP ROLLER LEVER CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS

**FIGURE 12. HEAD CODE: D
TOP ROLLER LEVER CAM ACTUATION PER EN50041 OPERATING CHARACTERISTICS**

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div></div> Contact Closed <div></div> Contact Open <div></div> Diff. Travel </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating velocity, max.	Operating velocity, min.	Max. operate frequency ops/min
GL**01D GL**07D	SNAP-ACTION CONTACTS SINGLE POLE 		5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**03D GL**33D	SLOW ACTING BREAK BEFORE MAKE 		5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**04D GL**34D	SLOW ACTING MAKE BEFORE BREAK 		5,5 N [1.2 lb]	9,6 N [2.2 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**05D GL**35D	SLOW ACTING 		5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**06D GL**36D	SLOW ACTING 		5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**20D GL**22D GL**24D GL**32D	SNAP ACTION CONTACTS DOUBLE POLE 		5,5 N [1.2 lb]	7,0 N [1.6 lb]	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250
GL**21D GL**25D GL**28D GL**31D	STEP 1 STEP 2 SNAP ACTION CONTACTS DOUBLE POLE SEQUENTIAL		5,5 N [1.2 lb]	n/a	0,29 M/S [11.4 in/S]	2,9 mm/S [0.11 in/S]	250

Head Code: E • WOBBLE AND CAT WHISKER ACTUATOR DIMENSIONS

Figure 13. Coil Actuator

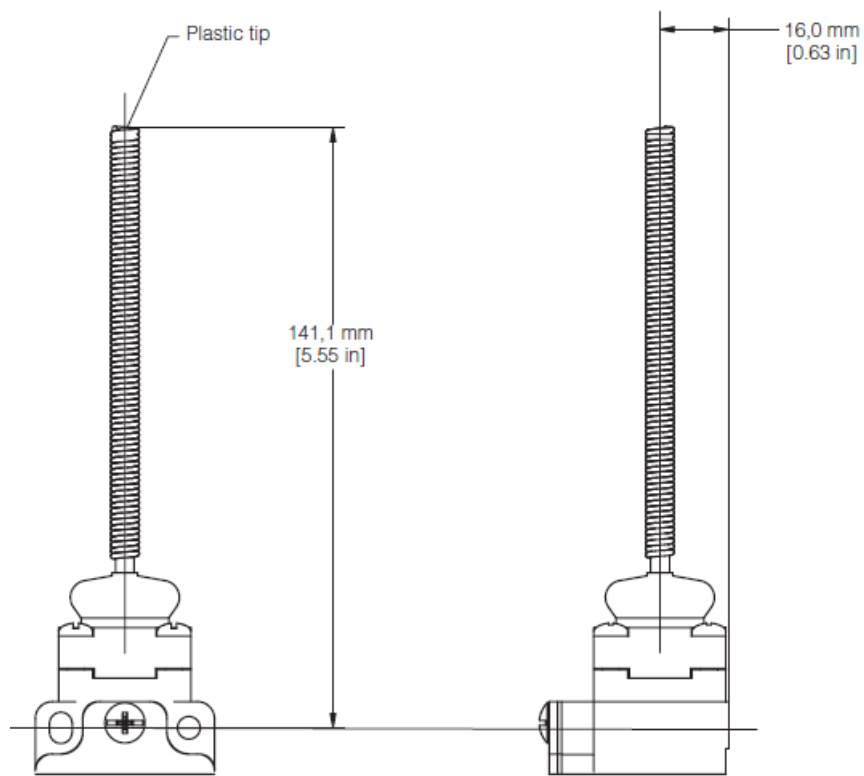


Figure 14. Plastic Rod and Flexible Cable

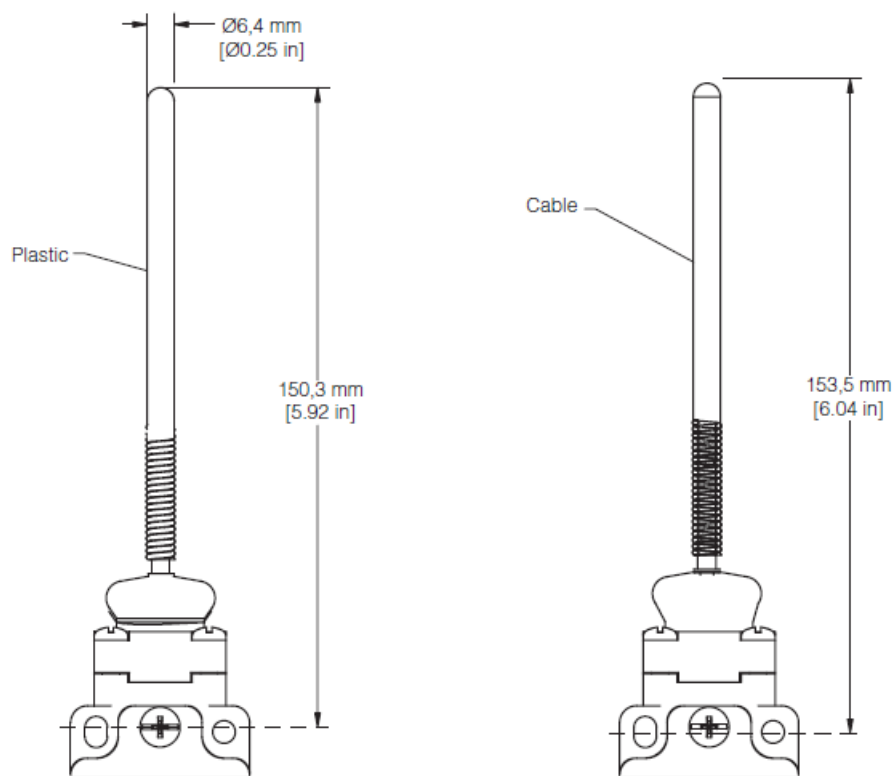
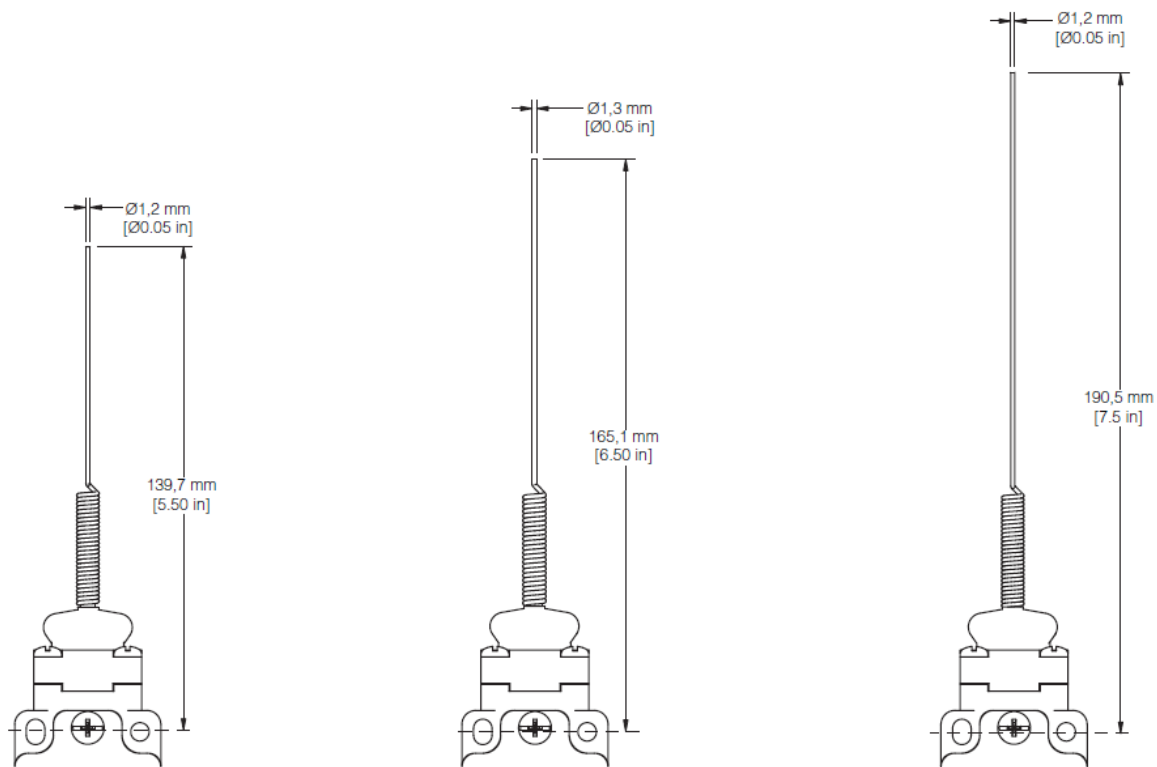


Figure 15. Cat Whisker Wobblers

5.5 inches (stainless steel)

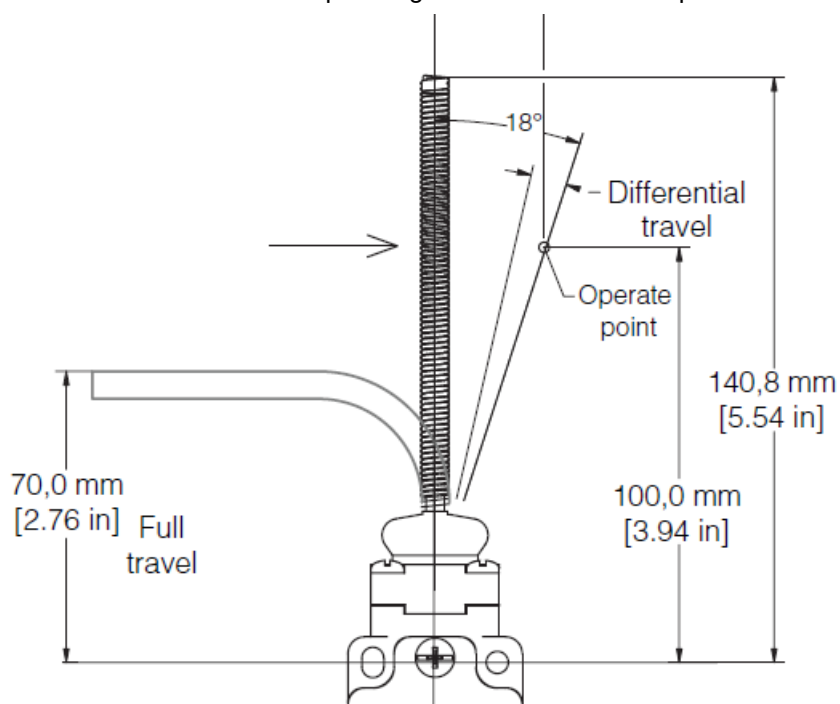
6.5 inches (stainless steel)

7.5 inches (stainless steel)



Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications



**FIGURE 16. HEAD CODE: E
WOBBLE STICK ANGULAR ACTUATION OPERATING CHARACTERISTICS**

**FIGURE 16. HEAD CODE: E
WOBBLE STICK ANGULAR ACTUATION OPERATING CHARACTERISTICS**

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div style="display: inline-block; width: 10px; height: 10px; background-color: black; margin-right: 5px;"></div> Contact Closed <div style="display: inline-block; width: 10px; height: 10px; background-color: white; border: 1px solid black; margin-right: 5px;"></div> Contact Open <div style="display: inline-block; width: 10px; height: 10px; background-color: lightgray; border: 1px solid black; margin-right: 5px;"></div> Diff. Travel </div> **Positive Opening to IEC 947-5-1	Operating force max.	Disconnect force, max.	Operating degrees, max.	Operating velocity, min.	Max. operate rate cycles/min
GL**01K GL**07K	SNAP-ACTION CONTACTS SINGLE POLE 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">21-22</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">13-14</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 45%; top: -10px;">18°</div> <div style="position: absolute; left: 35%; top: 10px;">8° Differential travel</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">21-22</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">13-14</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 45%; top: -10px;">18°</div> <div style="position: absolute; left: 85%; top: 10px;">25°</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">21-22</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">13-14</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 75%; top: -10px;">25°</div> <div style="position: absolute; left: 45%; top: 10px;">18°</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**05K GL**35K	SLOW ACTING 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">13-14</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">23-24</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 75%; top: -10px;">25°</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**06K GL**36K	SLOW ACTING 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">11-12</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">21-22</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 45%; top: -10px;">18°</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 	<div> <div style="width: 100%; height: 10px; background-color: black; position: relative;"> <div style="position: absolute; left: 0; top: -10px;">11-12, 21-22</div> <div style="position: absolute; right: 0; top: -10px;">></div> <div style="position: absolute; left: 10%; top: -10px;">13-14, 23-24</div> <div style="position: absolute; right: 10%; top: -10px;"><</div> <div style="position: absolute; left: 45%; top: -10px;">18°</div> <div style="position: absolute; left: 35%; top: 10px;">8° Differential travel</div> </div> </div>	0,1 N [0.9 lb]	n/a	360°	8°	100

Notes:

- Free position, operate point, overtravel, and pretravel all to EN50041
- Refer to page 5 for instructions on how to read operating characteristics and specifications

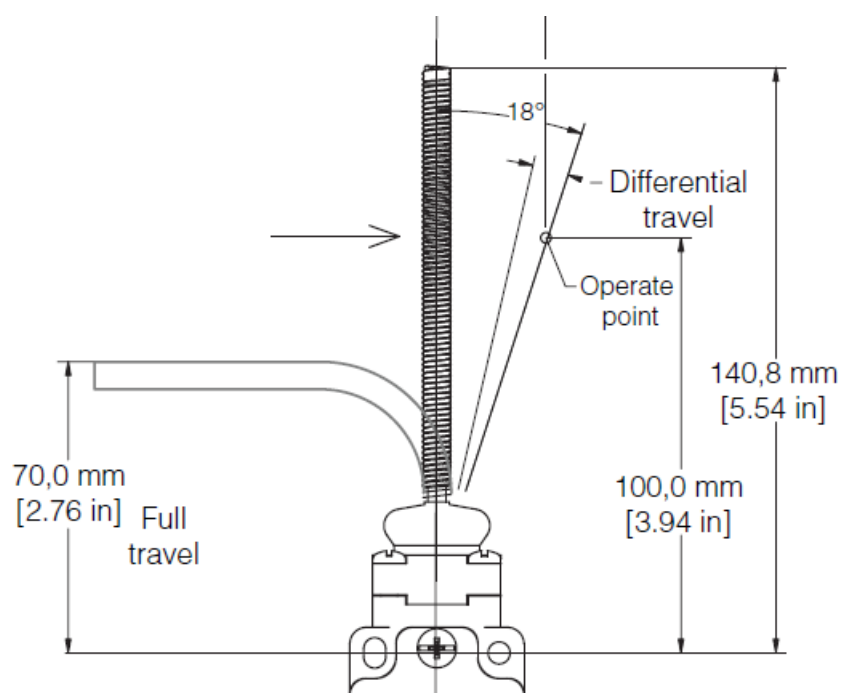


FIGURE 17. HEAD CODE: K

WOBBLE STICK ANGULAR ACTUATION OPERATING CHARACTERISTICS

FIGURE 17. HEAD CODE: K
WOBBLE STICK ANGULAR ACTUATION OPERATING CHARACTERISTICS

Catalog listing	Contact block diagram	Nominal travels and related terminals <div> <div>Contact Closed</div> <div>Contact Open</div> <div>Diff. Travel</div> </div> <div>**Positive Opening to IEC 947-5-1</div>	Operating force max.	Disconnect force, max.	Operating degrees, max.	Operating velocity, min.	Max. operate rate cycles/min
GL**01K GL**07K	SNAP-ACTION CONTACTS SINGLE POLE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**03K GL**33K	SLOW ACTING BREAK BEFORE MAKE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**04K GL**34K	SLOW ACTING MAKE BEFORE BREAK 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**05K GL**35K	SLOW ACTING 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**06K GL**36K	SLOW ACTING 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100
GL**20K GL**22K GL**24K GL**32K	SNAP ACTION CONTACTS DOUBLE POLE 		1,3 N [0.3 lb]	n/a	0,5 M/S [19.7 in/S]	11 mm/S [0.43 in/S]	100

WARRANTY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

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Documents / Resources



[Honeywell Micro Global Limit Switch GLS](#) [pdf] Installation Guide
Micro Global Limit Switch GLS

References

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