Honeywell
THE POWER OF **CONNECTED**

MICRO SWITCH Global Miniature Limit Switches

GLC | GLD | GLE Series

107147
Issue 17

Datasheet

DESCRIPTION

Honeywell MICRO SWITCH GLS miniature limit switch family offers a wide range of products for global solutions. These durable and reliable limit switches are suitable for many industrial applications, agriculture equipment, transportation equipment, and other applications requiring an environmentally sealed (IP and NEMA) switch.

The compact housings are often ideal for equipment where space is at a premium. The extensive product range is available in three different housing types; metal housing, plastic housing or a three conduit metal housing which are mounting compatible to EN50047. A wide range of actuators, contact blocks, and conduit/connectivity options enhance the product offering.

In today's demanding age of logic-level controls, electromechanical switches are frequently used to interface with PLCs and other logic level devices. GLS limit switches offer an option for gold-plated contacts for the standard switch. This option promotes the switch reliability for logic-level applications.

VALUE TO CUSTOMERS

- Meets EN50047 mounting standards and EN/IEC electrical standards for world-wide use
- Large existing install base and channel allows for quick delivery worldwide
- Wide range of actuators and circuitry options in same footprint
- Certified for global use with CCC[1], CSA, CE, and UL acceptance

DIFFERENTIATION

- Modular design of limit switch (heads/actuators, bodies, and contact blocks) allows for rapid customization and delivery
- Removable contact block for wiring ease
- Galvanically isolated contacts for controlling two separate circuits

FEATURES

- Designed to EN50047 standard
- Metal housing or double-insulated plastic housing for indoor and outdoor applications
- Wide range of actuator heads and levers
- Heads can be positioned at 90° increments for design flexibility. Side rotary actuator heads can be factory set for CW, CCW, or CW and CCW actuation
- Certified for global applications: CE, UL, CSA, CCC[1]
- Conforms to CE, EN50047, IEC/EN 60947-5-1; CSA C22.2 #14; UL 508; CCC[1] GB14048.5, EN45545-2 (GLC/GLE)
- Sealed to IP66 and NEMA/UL 1, 4, 12, and 13
- -40 °C [-40 °F] standard construction for side rotary and plunger actuated switches suitable for many severe outdoor environments
- Dual bearing design on side rotary actuators reduces side loading and enhances mechanical life
- Variety of NC and NO double-break snap-action or slow-action contact options
- Silver contacts for power switching or gold-plated contacts for low energy loads
- Normally closed contacts are positive opening ⊖, and conform to EN/IEC 60947-5-1-3 to provide forced opening of the normally closed contact. Each contact throw is electrically isolated to accept different voltages (Form Zb contacts). Double pole double throw (2NC/2NO) contact option require same polarity for each pole. (Form Za for each pole)
- Contact blocks are available as snap action or slow action
- Mechanical life up to 10 million operations

POTENTIAL APPLICATIONS

- Passenger elevators
- Commerical appliances
- Escalators/moving stairs
- Scissor/platform lifts
- Material handling
- Machine tool equipment
- Off-road equipment

PORTFOLIO

The GLC Series, GLD Series, and GLE Series are a segment of Honeywell's global limit switch offering. The global limit switch products also include the GLA Series, the GLL Series, the NGC Series, and SZL-VL series. In addition to the global limit switch series, Honeywell provides a comprehensive line of medium duty industrial limit switches (CE Series, E6/V6 Series, LS Series) and heavy-duty HDLS Series (Heavy Duty Limit Switch).

[1]CCC certification is not available on the GL Series Switches sold within Europe, Middle East, and Africa. Option for CCC certification in these regions is available upon request.

Table 1. Specifications

Characteristic	Parameter
Housing material	GLC Series and GLE Series: Electrostatic epoxy coated zinc GLD Series: High-strength glass re-enforced thermoplastic
Actuators	Side rotary, top pin plunger, top roller plunger, top roller lever, top wobble actuator
Termination	0.5-14 NPT, PG 13,5, 20 mm, PF 1/2, Deutsch style 4-pin connector other cable/connector options available, contact the Honeywell Representative
Contact options*	GLC metal housing and GLD plastic housing: 1NC/1NO, 2NC, 2NO GLE metal housing, 1NC/1NO, 2NC, 2NO, 2NC/2NO
Contact type	snap-action, slow-action break-before-make (BBM), slow-action make-before-break (MBB), slow action
Contact material	silver (standard), gold plated (low-energy applications)
Thermal current (Ith)	10 A
Rated insulation voltage	300 V
Rated impulse voltage	2.5 kV
Sealing	NEMA 1, 4, 12, 13; IP66
Operating temperature	-40 °C to 85 °C [-40 °F to 185 °F]
Mechanical life	Up to 10 million cycles
Pollution code	3
Max. actuation frequency	250 operations/minute; 100 operations/minute (wobbles)
Shock	50 g per IEC 60068-2-27
Vibration	10 g per IEC 60068-2-6
Approvals	CE, UL, CSA and CCC[1]
Conforming to standards	CE, EN50047, IEC/EN 60947-5-1; CSA C22.2 #14; UL 508; CCC[1], GB14048.5; EN45545-2 (GLC/GLE)

**All normally closed contacts are positive opening ⊖.*
The two contact elements are Zb (electrically separated) except the 2NC/2NO contacts requires same polarity each pole (Za).
[1]CCC certification is not available on the GL Series Switches sold within Europe, Middle East, and Africa. Option for CCC certification in these regions is available upon request.

Table 2. Electrical Rating

IEC 60947-5-1 (EN60947-5-1) AC 15, A300; DC 13, Q300

Silver Contacts								Gold Contacts
ac				dc				
A300 Ue	AC15 Ie	VA		Q300 Ue	DC13 Ie	VA		1 V 10 µA min. 50 V 100 mA max.
Volts	Amps	Make	Break	Volts	Amps	Make	Break	
120	6	7200	720	125	0.55	69	69	
240	3	7200	720	250	0.27	69	69	

Figure 1. Product Nomenclature

GL C A 01 A1A L

Switch Type

GLS Series Global Limit Switch

Body

C	Metal, miniature
D	Plastic, miniature
E	Metal, three conduit

Conduit

A	1/2-14 NPT
B	PG 13.5
C	20 mm

NOTE: not all combinations of model codes are available Please contact your Honeywell provider/representative for assistance.

Basic Switch

01	SPDT snap action
03	SPDT, BBM slow acting
04	SPDT, MBB slow acting
05	DPST, 2NO slow acting
06	DPST, 2NC slow acting
07	SPDT, snap action, gold cont.
24	DPDT, snap action, Body E
32	DPDT, snap action, gold cont. Body E
33	SPDT, BBM slow acting, gold contacts
34	SPDT, MBB slow acting, gold contacts
35	DPST, 2NO slow acting, gold contacts
36	DPST, 2NC slow acting, gold contacts

Head/Actuator

A1A	Side rotary, fixed, 19 mm x 6 mm nylon roller
A1B	Side rotary, fixed, 19 mm x 6 mm steel roller
A2A	Side rotary, adjust., 19 mm x 6 mm nylon roller
A2B	Side rotary, adjust., 19 mm x 6 mm steel roller
A4J	Side rotary, adjust., 140 mm aluminum rod
A4L	Side rotary, adjust., 200 mm aluminum rod
A5A	Side rotary, offset, 19 mm x 6 mm nylon roller
A5B	Side rotary, offset, 19 mm x 6 mm steel roller
A9A	Side rotary, conveyor lever
B	Top pin plunger
C	Top roller plunger
D	Top roller lever
E7B	Wobble, coil spring
F[Δ]	Adj. top roller lever, Ø27,3 mm x 5 mm roller
K8A	Cat whisker, 140 mm
K8B	Cat whisker, 190 mm
K8D	Cat whisker, 165 mm
A1	Side rotary, fixed, no roller
A2	Side rotary, adjustable, no roller
A1Y	Side rotary, fixed, 50 mm x 10 mm rubber roller
A2Y	Side rotary, adj., 50 mm x 10 mm rubber roller

[Δ] Available with D style body (plastic) only.

Modification Codes

For Actuator types beginning with A*

1	CW rotation only
2	CCW rotation only
3	Lever to right
4	Lever to left
5	Lever to mounting surf.

for Actuator/Type C

6	Roller perpendicular to mtg. surf.

for Actuator/Type D

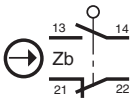
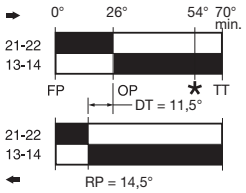
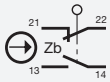
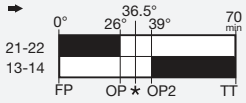
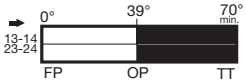
4	Lever to right, hinge to left

*For Type A modification codes, more than one code may be permissible. For example, GLCA01A1B-13 is a side rotary, lever-actuated switch, GLCA01A1B, adjusted for clockwise actuation only. The operating shaft is to the right side of the switch when viewing the switch from the front (label side).

MICRO SWITCH™ GLC SERIES ORDER GUIDE/RECOMMENDED LISTINGS

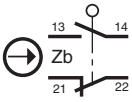
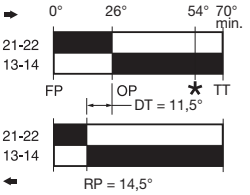
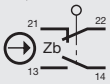
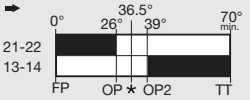
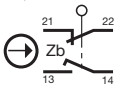
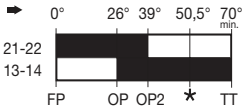
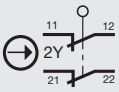
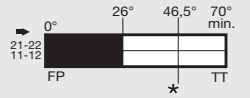
For listings not shown, contact your Honeywell representative.

Table 3. Side Rotary, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLCA01A1A
			Silver	PG 13,5			GLCB01A1A
			Silver	20 mm			GLCC01A1A
			Gold plated	20 mm			GLCC07A1A
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLCA03A1A
	2 NO	Slow action	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLCA05A1A

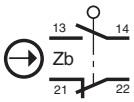
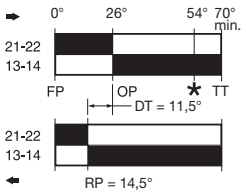
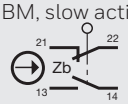
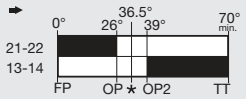
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 4. Side Rotary, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLCA01A1B
			Silver	PG 13,5			GLCB01A1B
			Silver	20 mm			GLCC01A1B
			Gold plated	PG 13,5			GLCB07A1B
			Gold plated	20 mm			GLCC07A1B
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLCA03A1B
				PG 13,5			GLCB03A1B
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLCA04A1B
				PG 13,5			GLCB04A1B
	2 NC	Slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		GLCB06A1B

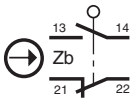
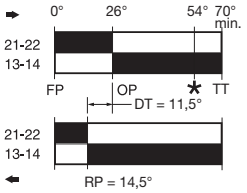
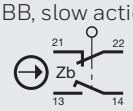
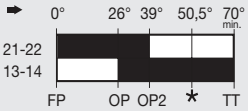
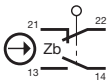
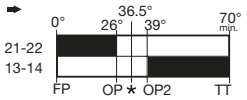
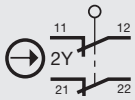
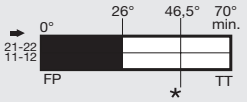
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 5. Side Rotary Adjustable, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLCA01A2A
			Silver	PG 13,5			GLCB01A2A
		BBM, slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		GLCB03A2A

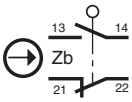
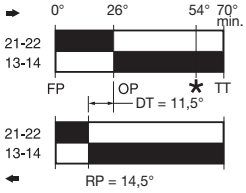
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 6. Side Rotary Adjustable, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLCA01A2B**
			Silver	PG 13,5			**GLCB01A2B**
			Gold plated	PG 13,5			**GLCB07A2B**
			Silver	20 mm			**GLCC01A2B**
			Gold plated	20 mm			**GLCC07A2B**
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLCA04A2B**
	1NC/1NO	BBM, slow action 	Silver	20 mm	0,11 Nm max. [1.0 in-lb max.]		**GLCC03A2B**
	2NC	Slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		**GLCB06A2B**

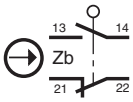
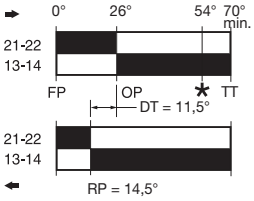
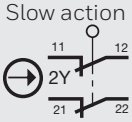
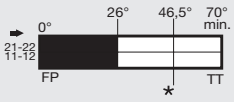
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 7. Side Rotary Adjustable, Metal Rod, A4J (140 mm rod) and A4L (200 mm rod)

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLCA01A4J**
				PG 13,5			**GLCB01A4J**
				20 mm			**GLCC01A4J**
				PG13,5			**GLCB01A4L**

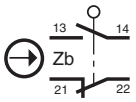
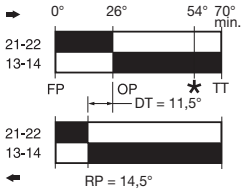
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 8. Side Rotary Offset Lever, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14NPT	0,12 Nm max. [1.1 in-lb max.]		**GLCA01A5B**
			Silver	PG 13,5			**GLCB01A5B**
	2NC	Slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLCA06A5B**
			Gold plated	0.5-14 NPT			**GLCA36A5B**

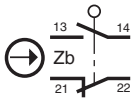
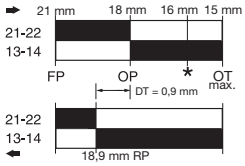
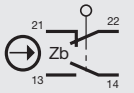
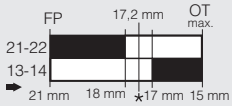
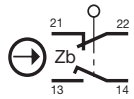
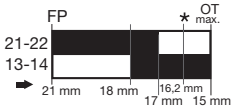
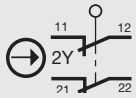
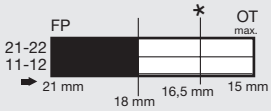
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 9. Side Rotary Conveyor Lever, Ceramic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLCA01A9A
				PG 13,5			GLCB01A9A
				20 mm			GLCC01A9A

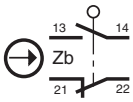
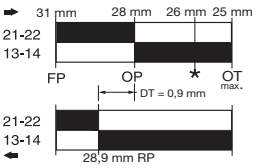
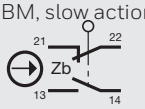
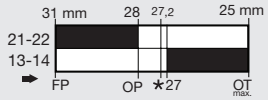
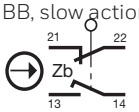
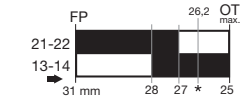
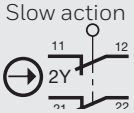
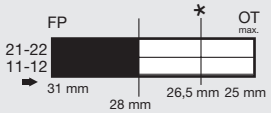
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 10. Top Pin Plunger

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLCA01B
			Silver	PG 13,5			GLCB01B
			Silver	20 mm			GLCC01B
			Gold plated	PG 13,5			GLCB07B
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	14 N max. [3.2 lb max.]		GLCA03B
				PG 13,5			GLCB03B
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLCA04B
				PG 13,5			GLCB04B
	2 NC	Slow action 	Silver	PG 13,5	13 N max. [2.9 lb max.]		GLCB06B

[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 11. Top Roller Plunger

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLCA01C
			Silver	PG 13,5			GLCB01C
			Gold plated	PG 13,5			GLCB07C
			Silver	20 mm			GLCC01C
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	14 N max. [3.2 lb max.]		GLCA03C
				PG 13,5			GLCB03C
	1NC/1NO	MBB, slow action 	Silver	PG 13,5	16 N max. [3.6 lb max.]		GLCB04C
	2NC	Slow action 	Silver	PG 13,5	13 N max. [2.9 lb max.]		GLCB06C
			Gold plated	PG 13,5			GLCB36C
			Silver	20 mm			GLCC06C

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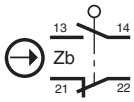
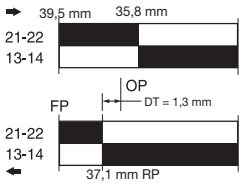
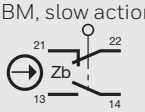
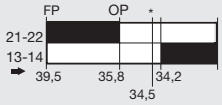
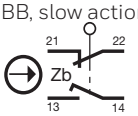
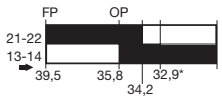
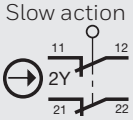
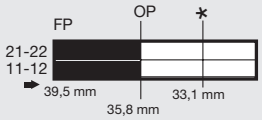
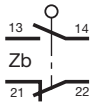
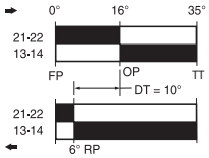
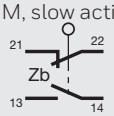
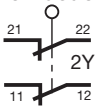
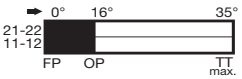
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 12. Top Roller Lever

Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
1NC/1NO	Snap action 	Silver	0.5-14 NPT	10 N max. [2.2 lb max.]		GLCA01D
		Silver	PG 13,5			GLCB01D
		Gold plated	PG 13,5			GLCB07D
		Silver	20 mm			GLCC01D
1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	9 N max. [2.0 lb max.]		GLCA03D
		Silver	PG 13,5			GLCB03D
		Gold plated	PG 13,5			GLCB33D
1NC/1NO	MBB, slow action 	Silver	PG 13,5	10 N max. [2.2 lb max.]		GLCB04D
2NC	Slow action 	Silver	20 mm	8 N max. [1.8 lb max.]		GLCC06D
		Gold plated	0.5-14 NPT			GLCA36D

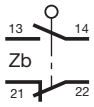
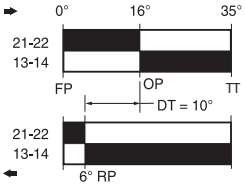
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 13. Coil Spring Wobble, 130 mm

Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
1NC/1NO	Snap action 	Silver	0.5-14 NPT	1,3 N max. [0.29 lb] max.		GLCA01E7B
		Silver	PG 13,5			GLCB01E7B
		Silver	20 mm			GLCC01E7B
		Gold plated	PG 13,5			GLCB07E7B
1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	1,1 N max. [0.25 lb] max.		GLCA03E7B
2NC	Slow action 	Silver	0.5-14 NPT	1,1 N max. [0.25 lb] max.		GLCA06E7B

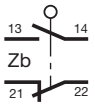
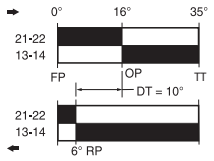
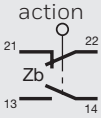
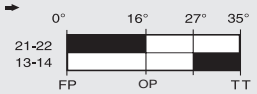
[1]Contact closed ■; Contact open □.

Table 14. Cat Whisker Wobble, 140 mm

Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,9 N max. [0.19 lb] max.		GLCA01K8A
			PG 13,5			GLCB01K8A

[1]Contact closed ■; Contact open □.

Table 15. Cat Whisker Wobble, 190 mm

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,9 N max. [0.19 lb] max.		**GLCA01K8B**
				PG 13,5			**GLCB01K8B**
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,7 N max. [0.16 lb] max.		**GLCA03K8B**

[1]Contact closed ■; Contact open □.

Figure 1. GLC Side Rotary • A1, A1A, A1B, and A1Y

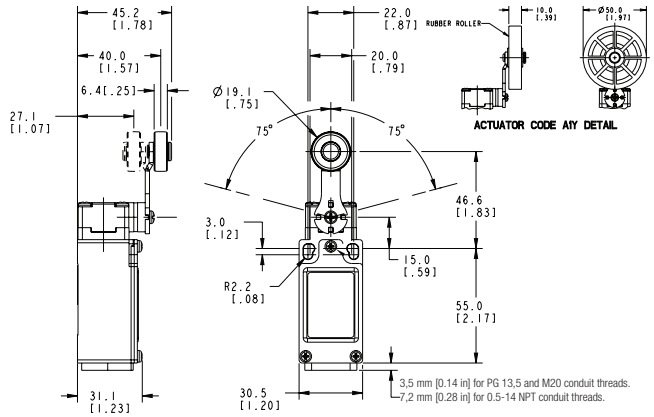


Figure 2. GLC Side Rotary • A2, A2A, A2B, and A2Y

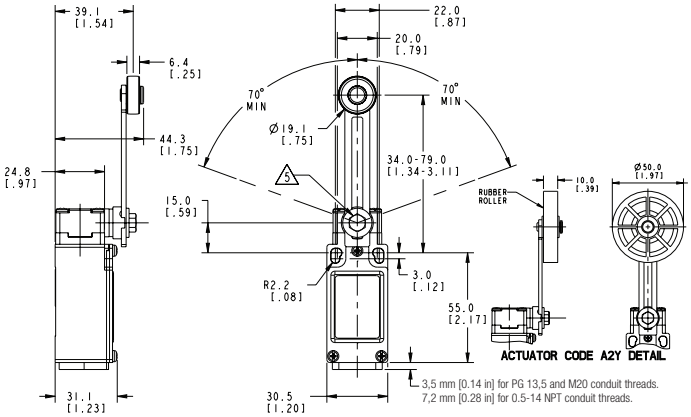


Figure 3. GLC Side Rotary Rod • A4J (140 mm) & A4L (200 mm)

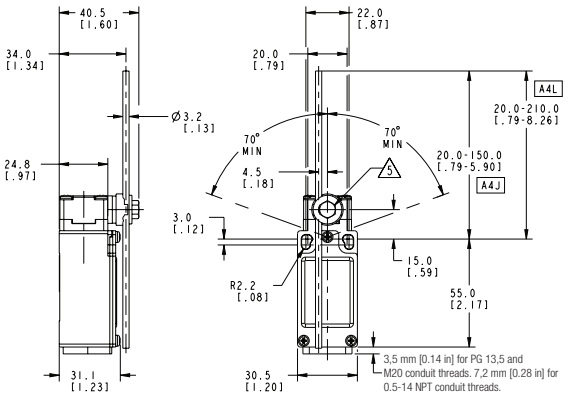


Figure 4. GLC Side Rotary • A5A and A5B

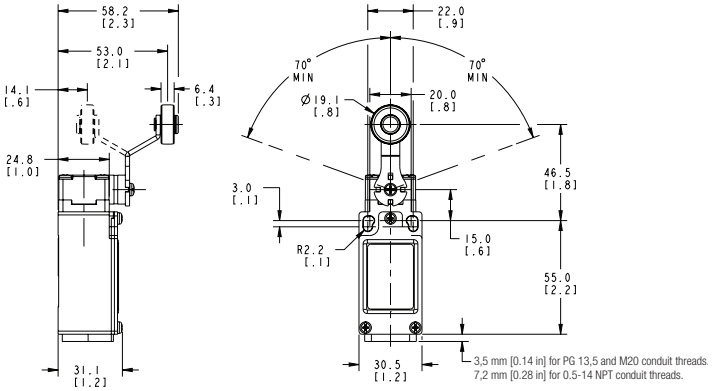


Figure 5. GLC Side Rotary • A9A

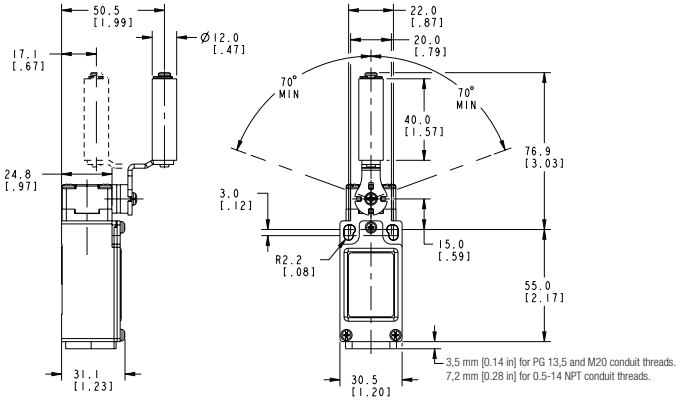


Figure 6. GLC Top Pin Plunger

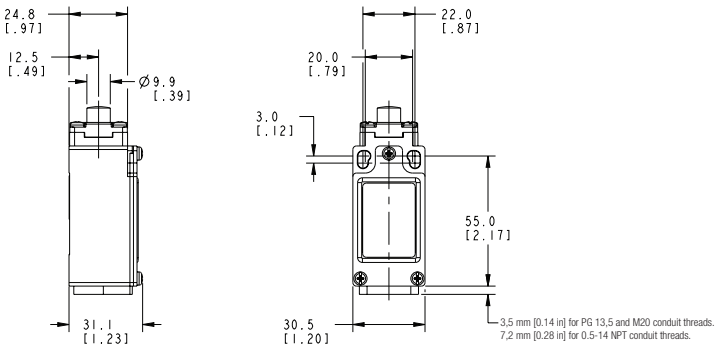


Figure 7. GLC Top Roller Plunger

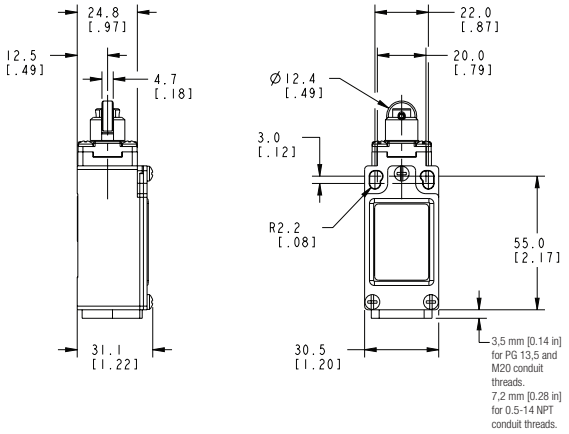


Figure 8. GLC Top Roller Arm

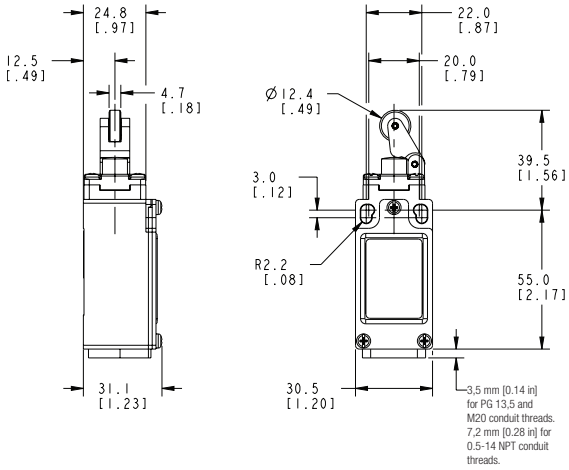


Figure 9. GLC Wobble • E7B

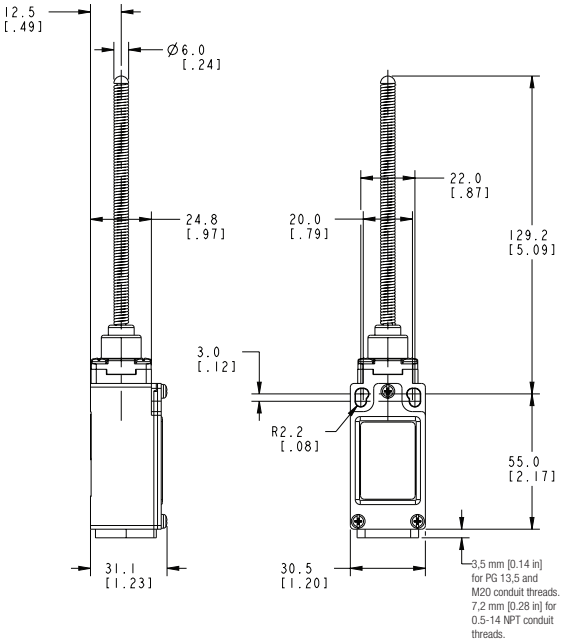


Figure 10. GLC Wobble • K8A/K8B

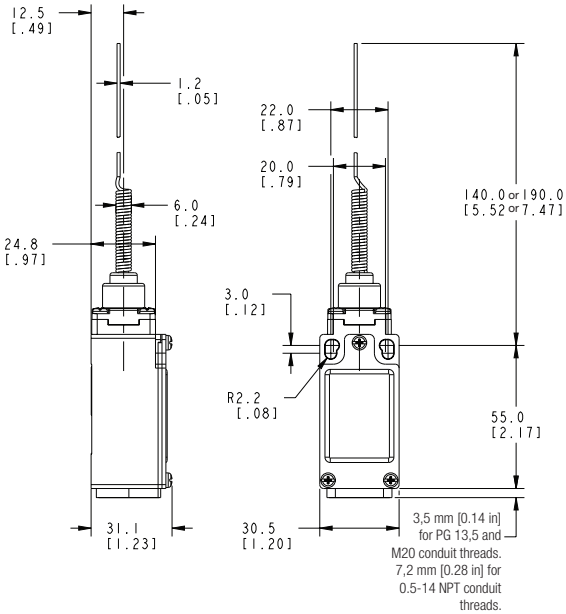
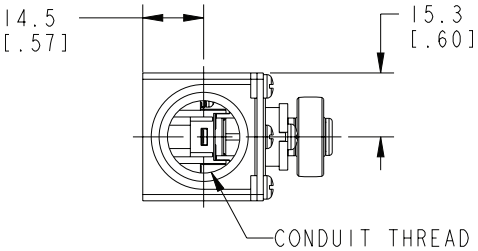


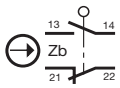
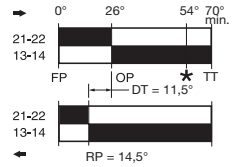
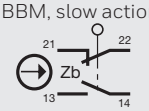
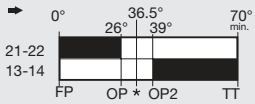
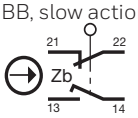
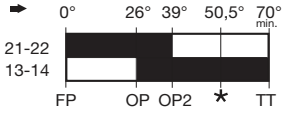
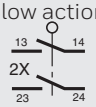
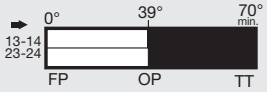
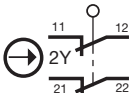
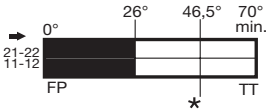
Figure 11. GLC Conduit



MICRO SWITCH™ GLD SERIES ORDER GUIDE/RECOMMENDED LISTINGS

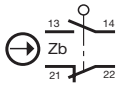
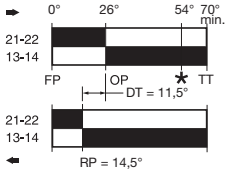
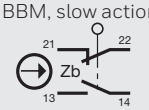
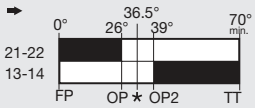
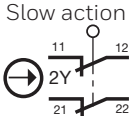
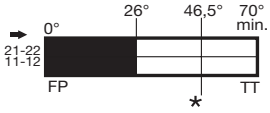
For listings not shown, contact your Honeywell representative.

Table 16. Side Rotary, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLDA01A1A
			Silver	PG 13,5			GLDB01A1A
			Gold plated	PG 13,5			GLDB07A1A
			Silver	20 mm			GLDC01A1A
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLDA03A1A
				PG 13,5			GLDB03A1A
	1NC/1NO	MBB, slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		GLDB04A1A
	2NO	Slow action 	Silver	20 mm	0,11 Nm max. [1.0 in-lb max.]		GLDC05A1A
	2NC	Slow action 	Silver	20 mm	0,11 Nm max. [1.0 in-lb max.]		GLDC06A1A

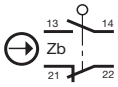
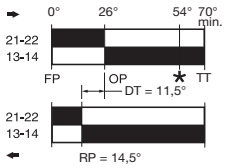
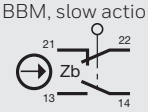
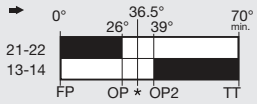
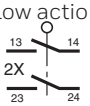
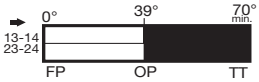
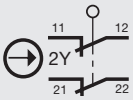
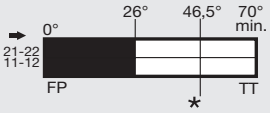
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 17. Side Rotary, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLDA01A1B
			Silver	PG 13,5			GLDB01A1B
			Gold plated	PG 13,5			GLDB07A1B
			Silver	20 mm			GLDC01A1B
			Gold plated	20 mm			GLDC07A1B
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLDA03A1B
				PG 13,5			GLDB03A1B
	2NC	Slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLDA06A1B
				PG 13,5			GLDB06A1B
				20 mm			GLDC06A1B

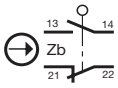
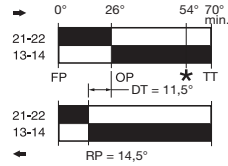
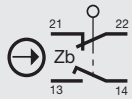
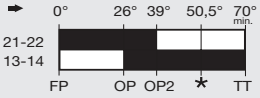
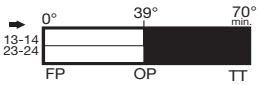
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 18. Side Rotary Adjustable, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLDA01A2A**
				PG 13,5			**GLDB01A2****
				PG 13,5			**GLDB01A2A**
				20 mm			**GLDC01A2A**
			Gold plated	PG 13,5			**GLDB07A2A**
	1NC/1NO	BBM, slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		**GLDB03A2A**
	2NO	Slow action 	Silver	20 mm	0,11 Nm max. [1.0 in-lb max.]		**GLDC05A2A**
	2NC	Slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA06A2A**
			Silver	PG 13,5			**GLDB06A2A**

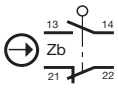
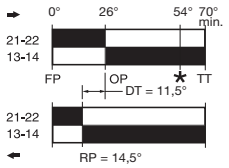
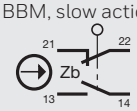
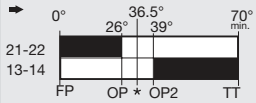
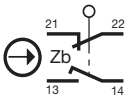
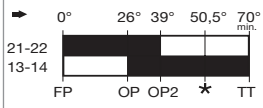
[1]Contact closed ■; Contact open □. *Positive opening occurs. ** No roller

Table 19. Side Rotary Adjustable, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLDA01A2B**
			Gold plated	0.5-14 NPT			**GLDA07A2B**
			Silver	PG 13,5			**GLDB01A2B**
			Gold plated	PG 13,5			**GLDB07A2B**
			Silver	20 mm			**GLDC01A2B**
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA04A2B**
	2NO	Slow action	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA05A2B**

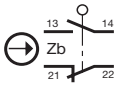
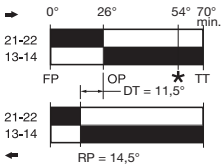
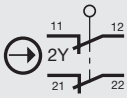
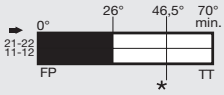
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 20. Side Rotary Adjustable, Metal Rod

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLDA01A4J**
				PG 13,5			**GLDB01A4J**
				20 mm			**GLDC01A4J**
	1NC/1NO	BBM, slow action 	Silver	20 mm	0,11 Nm max. [1.0 in-lb max.]		**GLDC03A4J**
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA04A4J**

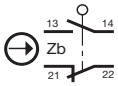
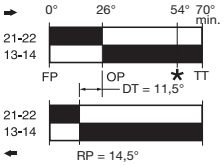
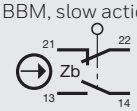
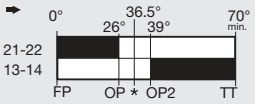
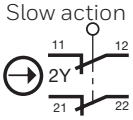
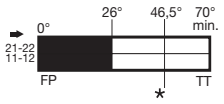
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 21. Side Rotary Offset Lever, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14NPT	0,12 Nm max. [1.1 in-lb max.]		**GLDA01A5B**
			Silver	PG 13,5			**GLDB01A5B**
			Silver	20 mm			**GLDC01A5B**
	2NC	Slow action 	Gold plated	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		**GLDB36A5B**

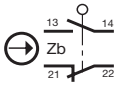
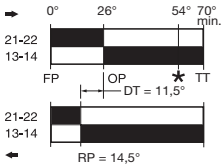
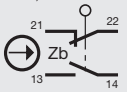
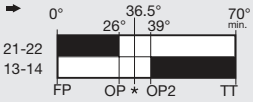
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 22. Side Rotary Conveyor Lever, Ceramic Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		**GLDA01A9A**
			Gold plated	0.5-14 NPT			**GLDA07A9A**
			Silver	20 mm			**GLDC01A9A**
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA03A9A**
	2NC	Slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		**GLDA06A9A**

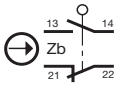
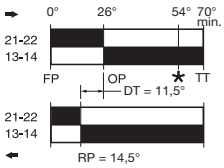
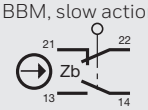
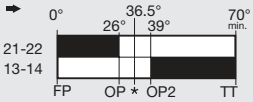
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 23. Side Rotary, 50 mm Rubber Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLDA01A1Y
				PG 13,5			GLDB01A1Y
				20 mm			GLDC01A1Y
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLDA03A1Y
				PG 13,5			GLDB03A1Y

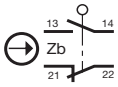
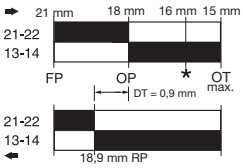
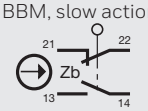
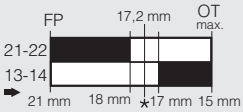
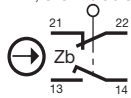
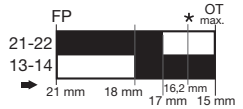
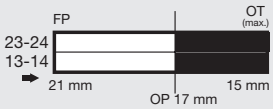
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 24. Side Rotary Adjustable, 50 mm Rubber Roller

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLDA01A2Y
				PG 13,5			GLDB01A2Y
	1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	0,11 Nm max. [1.0 in-lb max.]		GLDA03A2Y
				PG 13,5			GLDB03A2Y

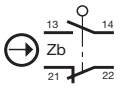
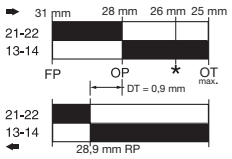
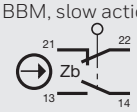
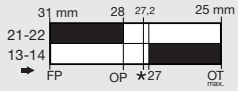
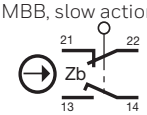
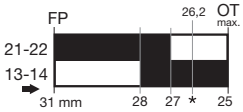
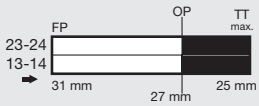
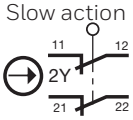
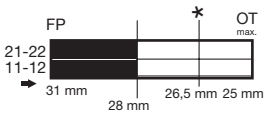
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 25. Top Pin Plunger

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLDA01B
			Silver	PG 13,5			GLDB01B
			Gold plated	PG 13,5			GLDB07B
			Silver	20 mm			GLDC01B
			Gold plated	20 mm			GLDC07B
	1NC/1NO	BBM, slow action 	Silver	0.5-14NPT	14 N max. [3.2 lb max.]		GLDA03B
				PG 13,5			GLDB03B
	1NC/1NO	MBB, slow action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLDA04B
				PG 13,5			GLDB04B
				20 mm			GLDC04B
	2 NO	Slow action	Silver	20 mm	13 N max. [2.9 lb max.]		GLDC05B

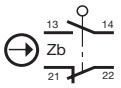
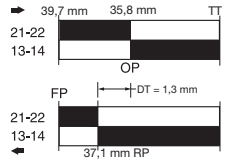
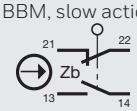
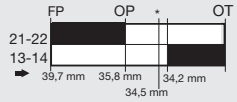
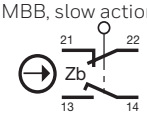
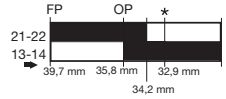
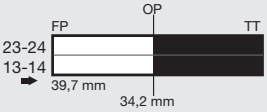
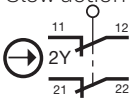
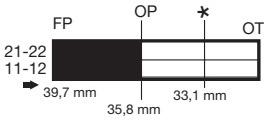
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 26. Top Roller Plunger

Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLDA01C
		Gold plated	0.5-14 NPT			GLDA07C
		Silver	PG 13,5			GLDB01C
		Gold plated	PG 13,5			GLDB07C
		Silver	20 mm			GLDC01C
1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	14 N max. [3.2 lb max.]		GLDA03C
		Silver	PG 13,5			GLDB03C
		Gold plated	PG 13,5			GLDB33C
		Silver	20 mm			GLDC03C
1NC/1NO	MBB, slow action 	Silver	PG 13,5	16 N max. [3.6 lb max.]		GLDB04C
2NO	Slow action	Silver	20 mm	13 N max. [2.9 lb max.]		GLDC05C
2NC	Slow action 	Silver	0.5-14 NPT	13 N max. [2.9 lb max.]		GLDA06C
		Silver	PG 13,5			GLDB06C
		Gold plated	PG 13,5			GLDB36C
		Silver	20 mm			GLDC06C

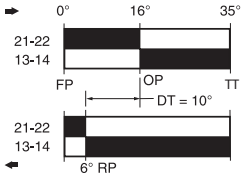
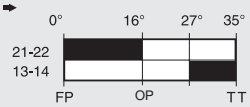
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 27. Top Roller Lever

Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
1NC/1NO	Snap action 	Silver	0.5-14 NPT	10 N max. [2.2 lb max.]		GLDA01D
			PG 13,5			GLDB01D
			20 mm			GLDC01D
1NC/1NO	BBM, slow action 	Silver	0.5-14 NPT	9 N max. [2.0 lb max.]		GLDA03D
			PG 13,5			GLDB03D
			20 mm			GLDC03D
1NC/1NO	MBB, slow action 	Silver	PG 13,5	10 N max. [2.2 lb max.]		GLDB04D
2NO	Slow action	Silver	20 mm	8 N max. [1.8 lb max.]		GLDC05D
2NC	Slow action 	Silver	0.5-14 NPT	8 N max. [1.8 lb max.]		GLDA06D
			20 mm			GLDC06D

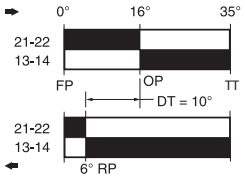
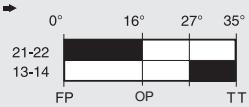
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 28. Coil Spring Wobble, 130 mm

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action	Silver	0.5-14 NPT	1,3 N max. [0.29 lb max.]		**GLDA01E7B**
				PG 13,5			**GLDB01E7B**
				20 mm			**GLDC01E7B**
	1NC/1NO	BBM, slow action	Silver	0.5-14 NPT	1,1 N max. [0.25 lb max.]		**GLDA03E7B**

[1]Contact closed ■; Contact open □.

Table 29. Cat Whisker Wobble, 190 mm

	Contacts	Contact Type	Contact Mtl	Conduit	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action	Silver	0.5-14 NPT	0,9 N max. [0.19 lb max.]		**GLDA01K8B**
				PG 13,5			**GLDB01K8B**
				20 mm			**GLDC01K8B**
	1NC/1NO	BBM, slow action	Silver	0.5-14 NPT	0,7 N max. [0.16 lb max.]		**GLDA03K8B**

[1]Contact closed ■; Contact open □.

MICRO SWITCH™ GLD DIMENSIONAL DRAWINGS mm [in]

Figure 12. GLD Side Rotary • A1, A1A, A1B, and A1Y

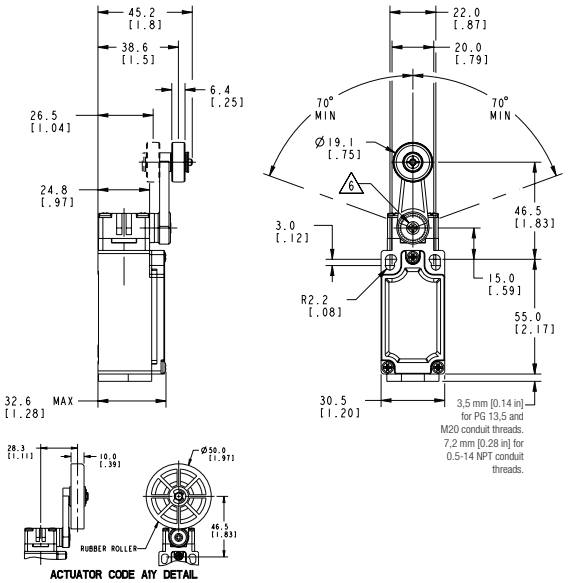


Figure 13. GLD Side Rotary • A2, A2A, A2B, and A2Y

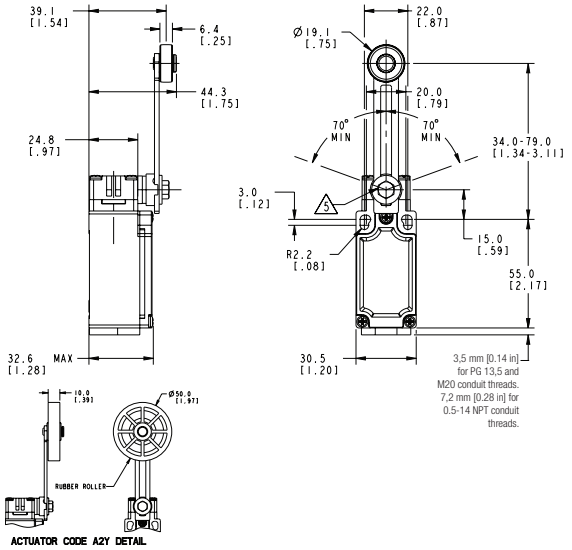


Figure 14. GLD Side Rotary Rod • A4J (140 mm) & A4L (200 mm)

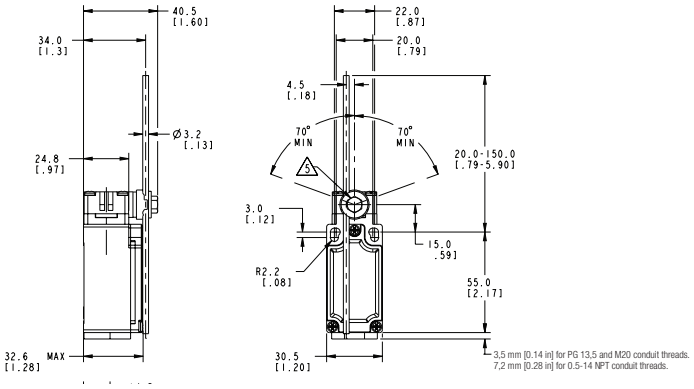


Figure 15. GLD Side Rotary • A5A and A5B

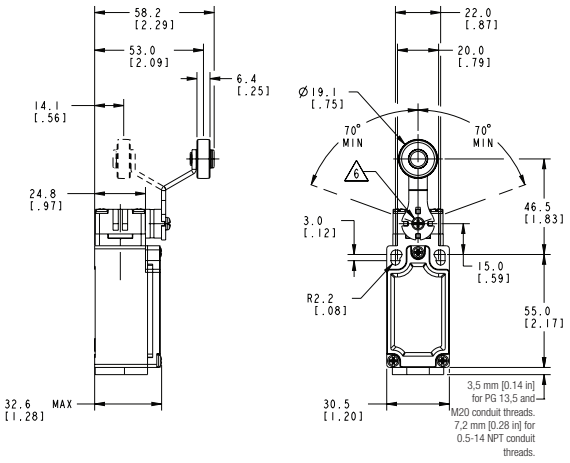


Figure 16. GLD Side Rotary • A9A

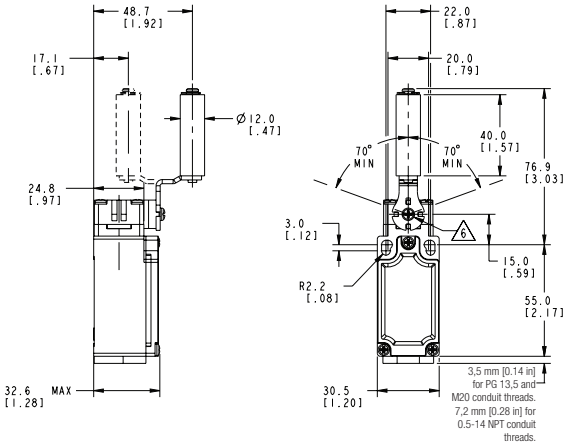
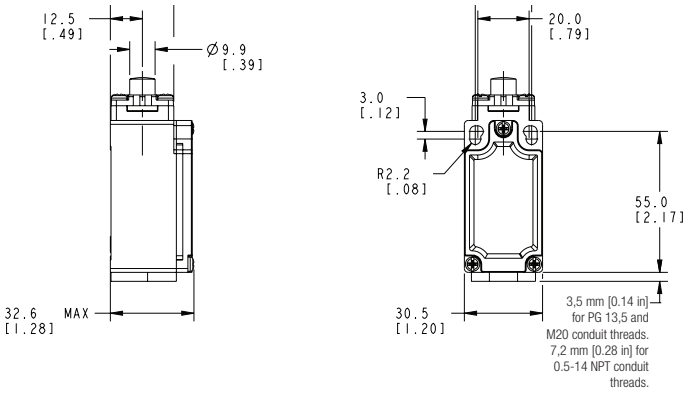


Figure 17. GLD Top Pin Plunger



MICRO SWITCH™ GLD DIMENSIONAL DRAWINGS mm [in]

Figure 18. GLD Top Roller Plunger

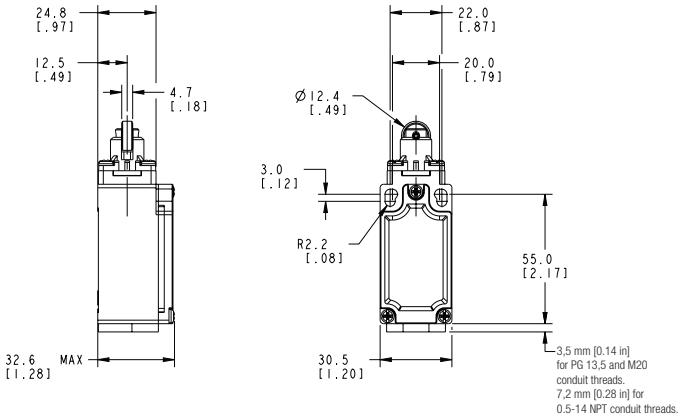


Figure 19. GLD Top Roller Arm

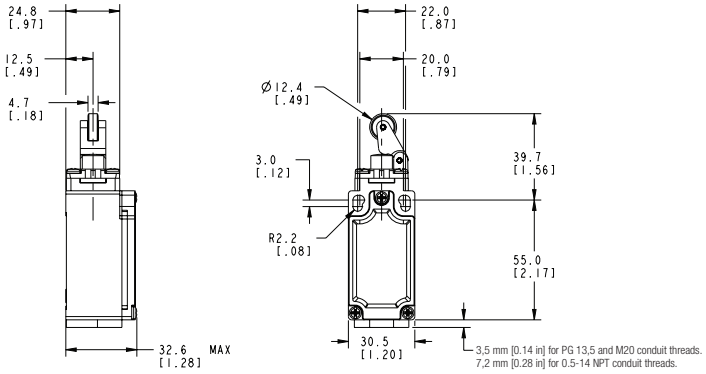


Figure 20. GLD Wobble • E7B

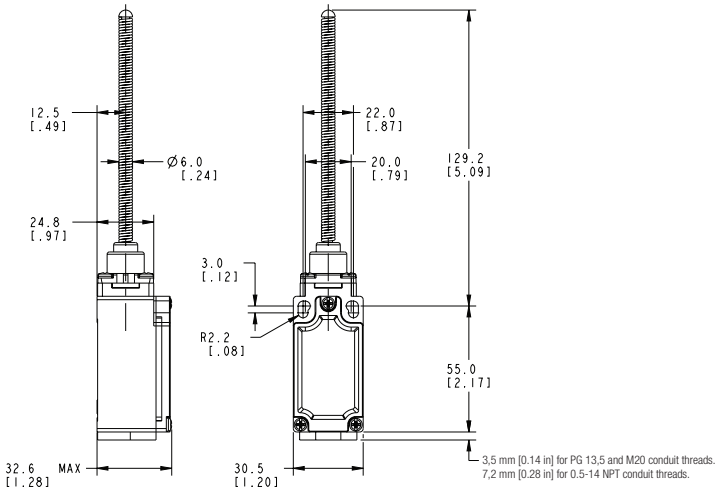


Figure 21. GLD Wobble • K8A/K8B

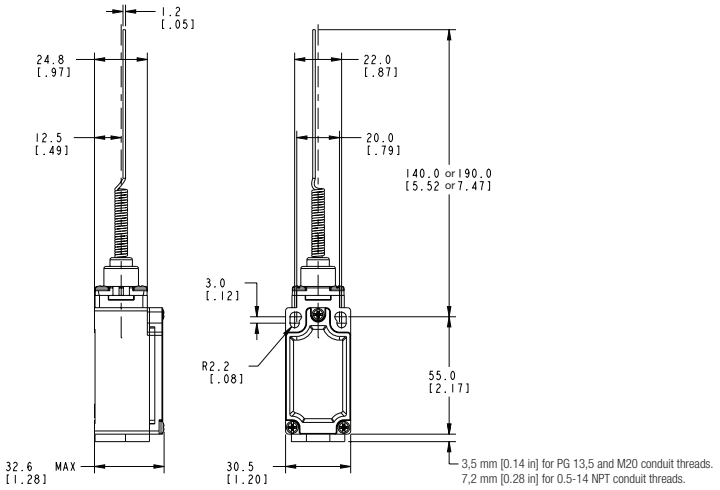
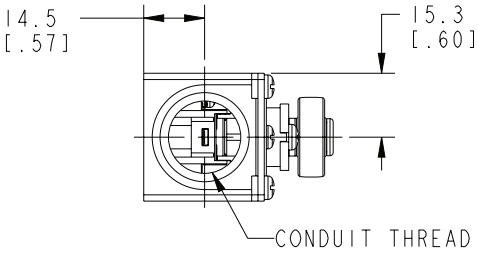


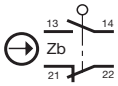
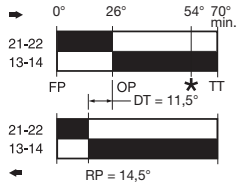
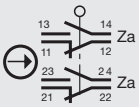
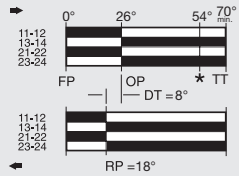
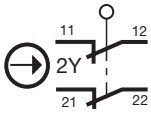
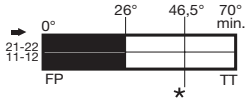
Figure 22. GLD Conduit



MICRO SWITCH™ GLE SERIES ORDER GUIDE/RECOMMENDED LISTINGS

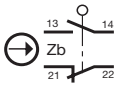
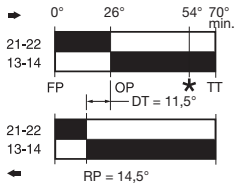
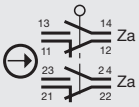
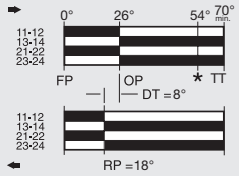
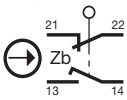
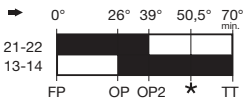
For listings not shown, contact your Honeywell representative.

Table 30. Side Rotary, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLEA01A1A
				PG 13,5			GLEB01A1A
	2NC/2NO	Snap action 	Gold plated	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max.]		GLEA32A1A
				PG 13,5			GLEB32A1A
	2NC	Slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		GLEB06A1A
			Gold plated	0.5-14 NPT			GLEA36A1A

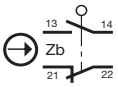
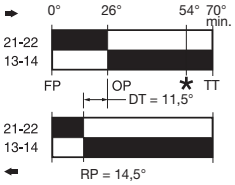
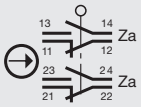
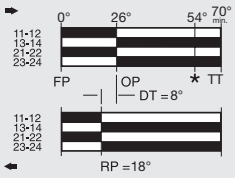
[1]Contact closed ■; Contact open □. *Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

Table 31. Side Rotary, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLEA01A1B
			Silver	PG 13,5			GLEB01A1B
			Gold plated	PG 13,5			GLEB07A1B
			Silver	20 mm			GLEC01A1B
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max.]		GLEA24A1B
				PG 13,5			GLEB24A1B
			Gold plated				GLEB32A1B
			Silver	20 mm			GLEC24A1B
	1NC/1NO	MBB, slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		GLEB04A1B

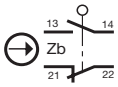
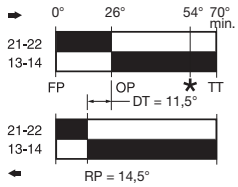
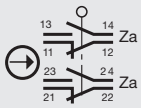
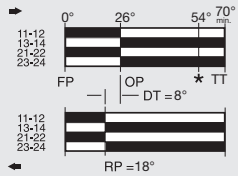
[1]Contact closed ■; Contact open □. *Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

Table 32. Side Rotary Adjustable, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLEA01A2A
				PG 13,5			GLEB01A2A
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max.]		GLEA24A2A
				20 mm			GLEC24A2A

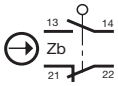
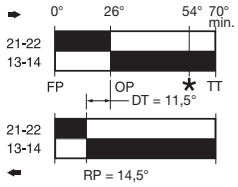
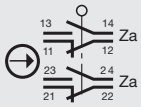
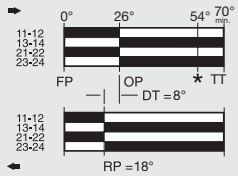
[1]Contact closed ■; Contact open □. *Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

Table 33. Side Rotary Adjustable, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLEA01A2B
				PG 13,5			GLEB01A2B
				20 mm			GLEC01A2B
			Gold plated	PG 13,5			GLEB07A2B
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max.]		GLEA24A2B
				PG 13,5			GLEB24A2B

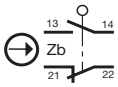
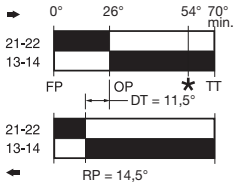
[1]Contact closed ■; Contact open □. *Positive opening occurs.† 0.5-14 NPT conduit option includes adapter.

Table 34. Side Rotary Adjustable, Metal Rod, A4J (140 mm Rod)

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.]		GLEA01A4J
				PG 13,5			GLEB01A4J
				20 mm			GLEC01A4J
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max.]		GLEA24A4J

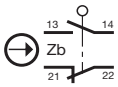
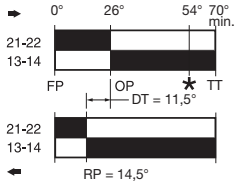
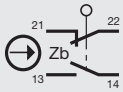
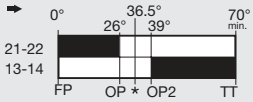
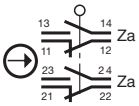
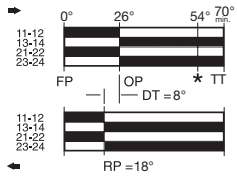
[1]Contact closed ■; Contact open □. *Positive opening occurs.† 0.5-14 NPT conduit option includes adapter.

Table 35. Side Rotary Offset Lever, Plastic Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.		**GLEA01A5A**
				PG 13,5			**GLEB01A5A**

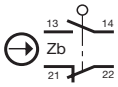
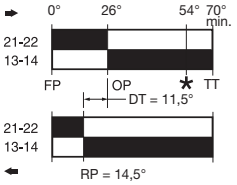
[1]Contact closed ■; Contact open □. *Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

Table 36. Side Rotary Offset Lever, Metal Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	0,12 Nm max. [1.1 in-lb max.		**GLEA01A5A**
				PG 13,5			**GLEB01A5B**
	1NC/1NO	BBM, slow action 	Silver	PG 13,5	0,11 Nm max. [1.0 in-lb max.]		**GLEB03A5B**
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	0,165 Nm max. [1.6 in-lb max		**GLEA24A5B**

[1]Contact closed ■; Contact open □. *Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

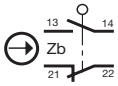
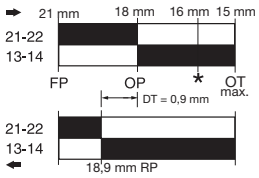
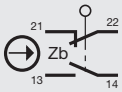
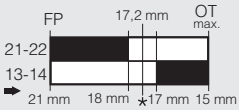
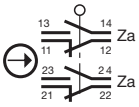
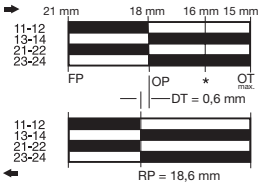
Table 37. Side Rotary Conveyor Lever, Ceramic Roller

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Torque	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	PG 13,5	0,12 Nm max. [1.1 in-lb max.		**GLEB01A9A**
				20 mm			**GLEC01A9A**

MICRO SWITCH Global Miniature Limit Switches, GLC | GLD | GLE Series

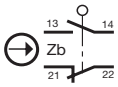
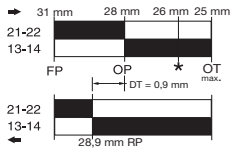
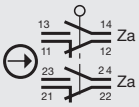
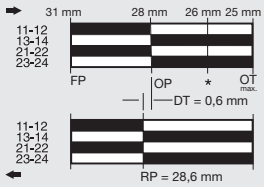
[1]Contact closed ■; Contact open □. *Positive opening occurs.

Table 38. Top Pin Plunger

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLEA01B
				PG 13,5			GLEB01B
				20 mm			GLEC01B
			Gold plated	PG 13,5			GLEB07B
	1NC/1NO	BBM, slow action 	Silver	PG 13,5	14 N max. [3.2 lb max.]		GLEB03B
				20 mm			GLEC03B
			Gold plated	PG 13,5			GLEB33B
				20 mm			GLEC33B
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	13 N max. [2.9 lb max.]		GLEA24B
				PG 13,5			GLEB24B
				20 mm			GLEC24B
			Gold plated	20 mm			GLEC32B

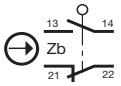
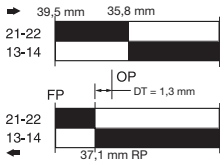
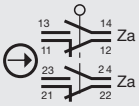
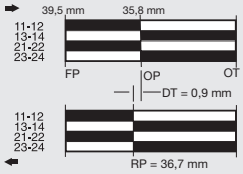
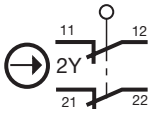
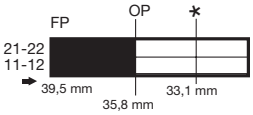
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

Table 39. Top Roller Plunger

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	16 N max. [3.6 lb max.]		GLEA01C
				PG 13,5			GLEB01C
				20 mm			GLEC01C
			Gold plated	PG 13,5			GLEB07C
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	13 N max. [2.9 lb max.]		GLEA24C
				PG 13,5			GLEB24C
				20 mm			GLEC24C

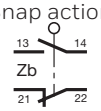
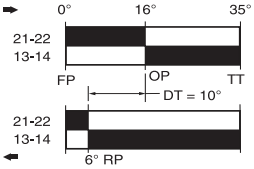
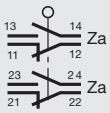
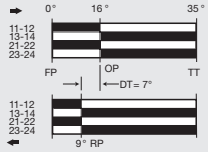
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

Table 40. Top Roller Lever

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	10 N max. [2.2 lb max.]		GLEA01D
				PG 13,5			GLEB01D
				20 mm			GLEC01D
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	3,2 N max. [0.72 lb max.]		GLEA24D
				PG 13,5			GLEB24D
				20 mm			GLEC24D
	2 NC	Slow action 	Silver	0.5-14 NPT	8 N max. [1.8 lb max.]		GLEA06D

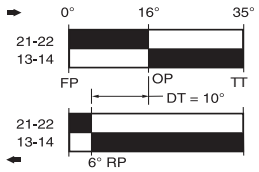
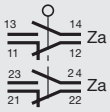
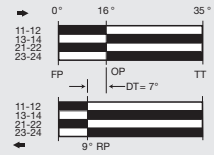
[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

Table 41. Coil Spring Wobble, 130 mm

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action 	Silver	0.5-14 NPT	1,3 N max. [0.29 lb max.]		GLEA01E7B
				PG 13,5			GLEB01E7B
	2NC/2NO	Snap action 	Silver	0.5-14 NPT	1.1 N max. 0.25 lb max.]		GLEA24E7B
				PG 13,5			GLEB24E7B

[1]Contact closed ■; Contact open □. *Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

Table 42. Cat Whisker Wobble, 140 mm

	Contacts	Contact Type	Contact Mtl	Conduit †	Oper. Force	Bar Chart[1]	Listing
	1NC/1NO	Snap action	Silver	PG 13,5	0,9 N max. [0.19 lb max.]		GLEB01K8A
			Gold plated	PG 13,5			GLEB07K8A
	2NC/2NO	Snap action 	Silver	PG 13,5	1.1 N max. 0.25 lb max.]		GLEB24K8A

[1]Contact closed ■; Contact open □.

MICRO SWITCH™ GLE DIMENSIONAL DRAWINGS mm [in]

Figure 23. GLE Side Rotary • A1, A1A, A1B, and A1Y

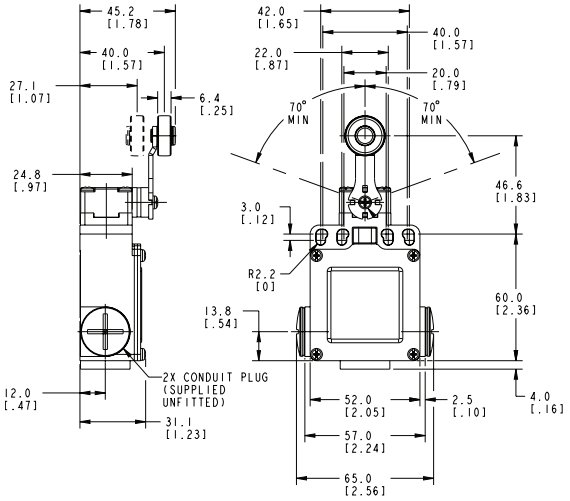


Figure 24. GLE Side Rotary • A2, A2A, A2B, and A2Y

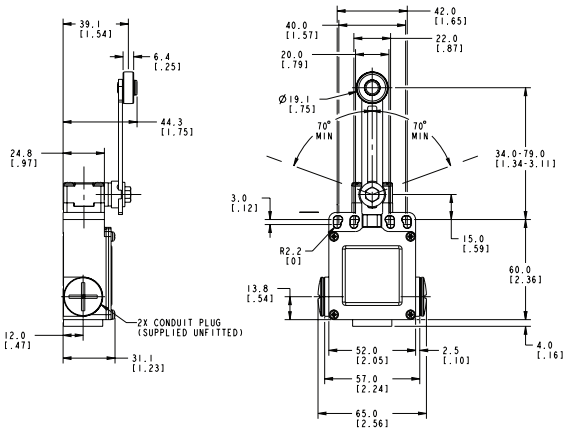


Figure 25. GLE Side Rotary • A4J and A4L

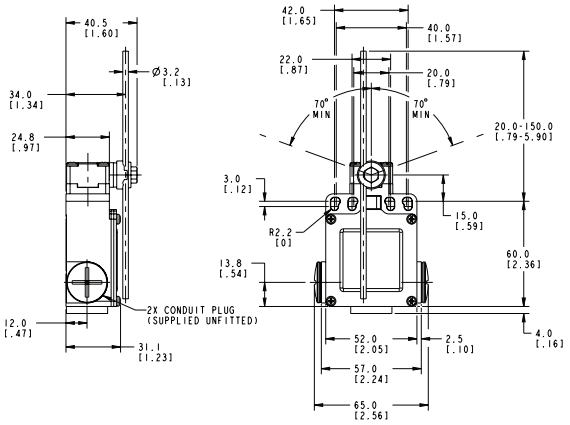


Figure 26. GLE Side Rotary • A5A and A5B

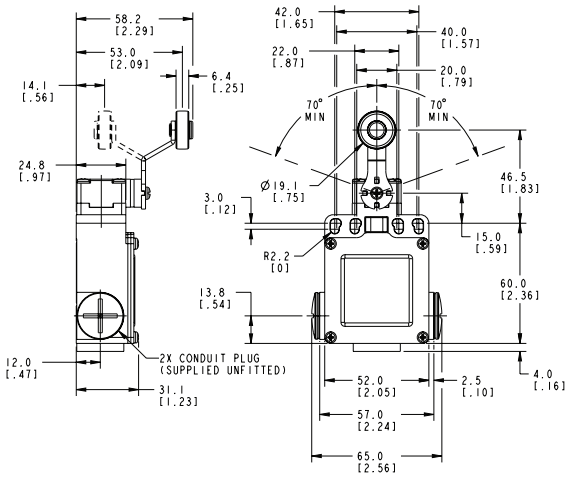


Figure 27. GLE Side Rotary • A9A

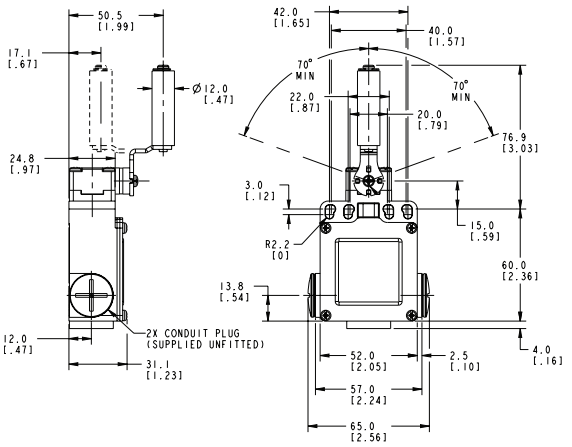
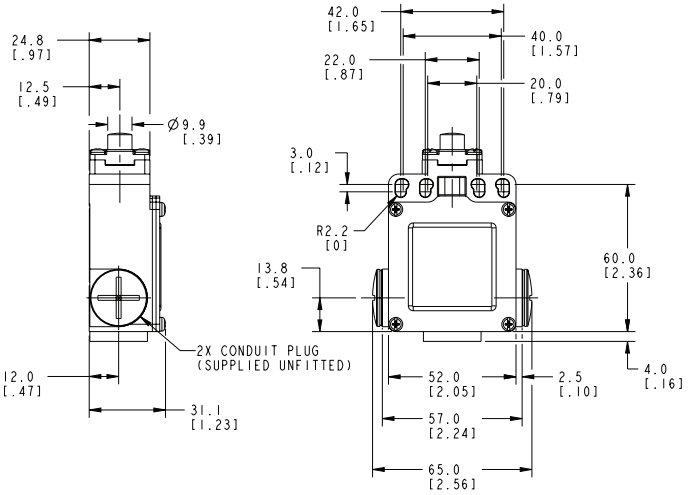


Figure 28. GLE Top Pin Plunger



MICRO SWITCH™ GLE DIMENSIONAL DRAWINGS mm [in]

Figure 29. GLE Top Roller Plunger

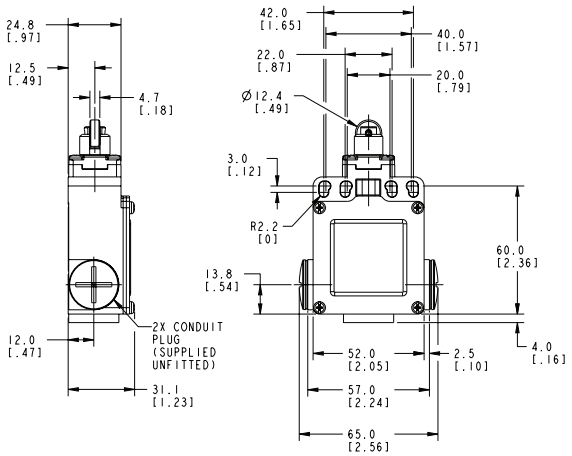


Figure 30. GLE Top Roller Arm

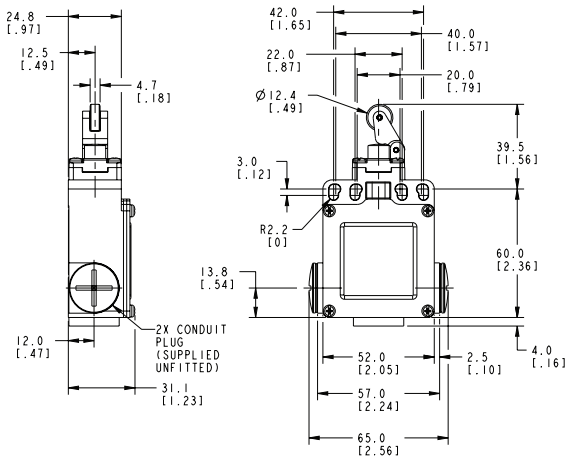


Figure 31. GLE Wobble • E7B

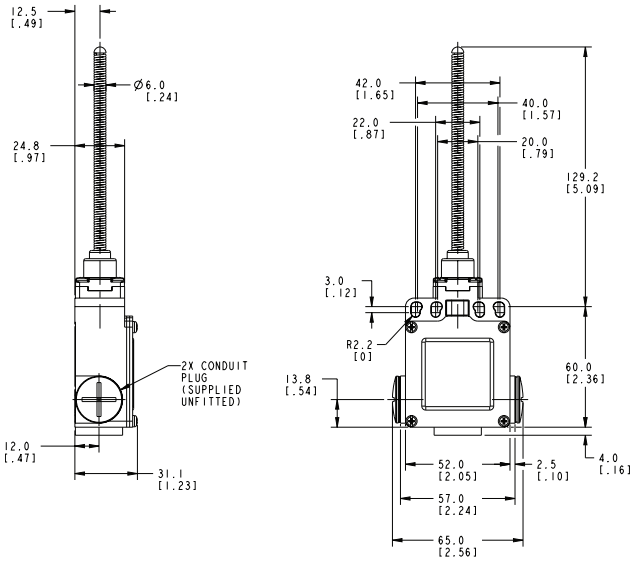


Figure 32. GLE Wobble • K8A

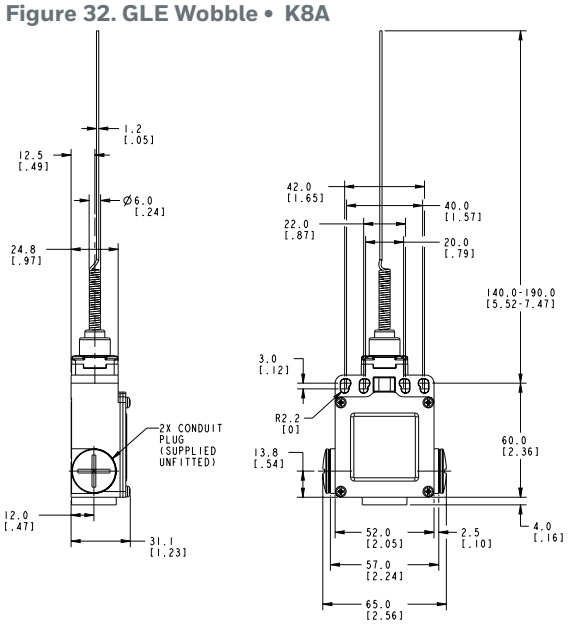
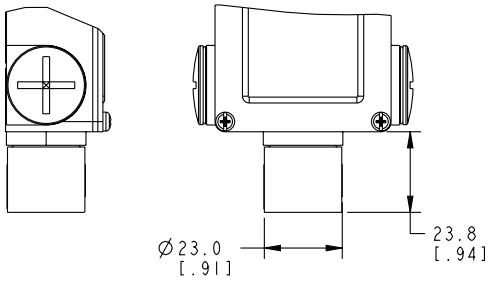


Figure 33. GLE Conduit Adapter for 0.5-14 NPT



FACTORY PRE-WIRED LIMIT SWITCHES WITH INTEGRAL CONNECTOR

Epoxy-coated Metal Limit Switches

GLCC01B-D1: Top pin plunger, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

GLCC01C-D1: Top roller plunger, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

GLCC06A1B-D1: Side rotary with metal roller, 2NC slow action, with Deutsch DT style 4 pin connector

Plastic Limit Switches

GLDC01A1A-D1: Side rotary with plastic roller, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

GLDC01A1B-D1: Side rotary with metal roller, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

GLDC01C-D1: Top roller plunger, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

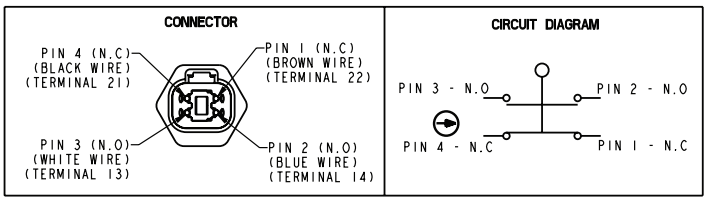
Note: Reference base catalog listing for switch characteristics. For example, cat. listing GLCC01B-D1 has base cat. listing GLCC01B.

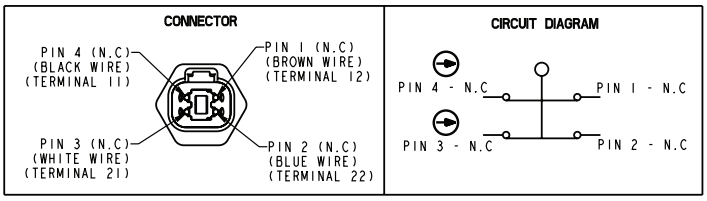
Connector Without Limit Switch

GLZ8C-DEU: DT style 4 pin connector prewired with 6 in. of lead wires (4) and 20 mm conduit thread with jam nut

GLZ8C-PA: DT style 4 pin connector packet with all parts furnished unassembled for a 20 mm conduit thread

FACTORY PRE-WIRED LIMIT SWITCHES WITH INTEGRAL CONNECTOR





REPLACEMENT PARTS - BASIC SWITCHES

Body Type	Basic Switch									
	01	03	04	06	07	24	32	33	34	36
GLC	GLZ301	GLZ303	GLZ304	GLZ306	GLZ307	n/a	n/a	GLZ333	GLZ334	GLZ336
GLD	GLZ301	GLZ303	GLZ304	GLZ306	GLZ307	n/a	n/a	GLZ333	GLZ334	GLZ336
GLE	GLZ301	GLZ303	GLZ304	GLZ306	GLZ307	GLZ324	GLZ332	GLZ333	GLZ334	GLZ336

ADDITIONAL MATERIALS

The following associated literature is available on the Honeywell web site at sensing.honeywell.com:

- Product installation instructions
- Aerospace range guide
- Transportation range guide
- Limits and Machine Safety range guide
- Product application-specific information
  - Application Note: Sensors and Switches for Industrial Manual Process Valves
  - Application Note: Sensors and Switches Used in Valve Actuators and Valve Positioners
  - Industrial Machinery Switch Guide
  - Limit and Enclosed Switches Application Information
  - Limit and Enclosed Switches Operating Characteristics
  - Limit and Enclosed Switches Reference Standards
  - Limit and Enclosed Switches Typical Applications
  - Sensors and Switches in Mobile Cranes
  - Sensors and Switches in Front Loaders
  - Sensors and Switches in Elevator Applications

For more information

Honeywell Sensing and Internet of Things services its customers through a worldwide network of sales offices and distributors. For application assistance, current specifications, pricing or the nearest Authorized Distributor, visit sensing.honeywell.com or call:

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Europe	+44 (0) 1698 481481
USA/Canada	+1-800-537-6945

⚠ WARNING
PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

⚠ WARNING
MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

Warranty/Remedy

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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Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

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Fort Mill, SC 29707
www. honeywell.com

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Honeywell

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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