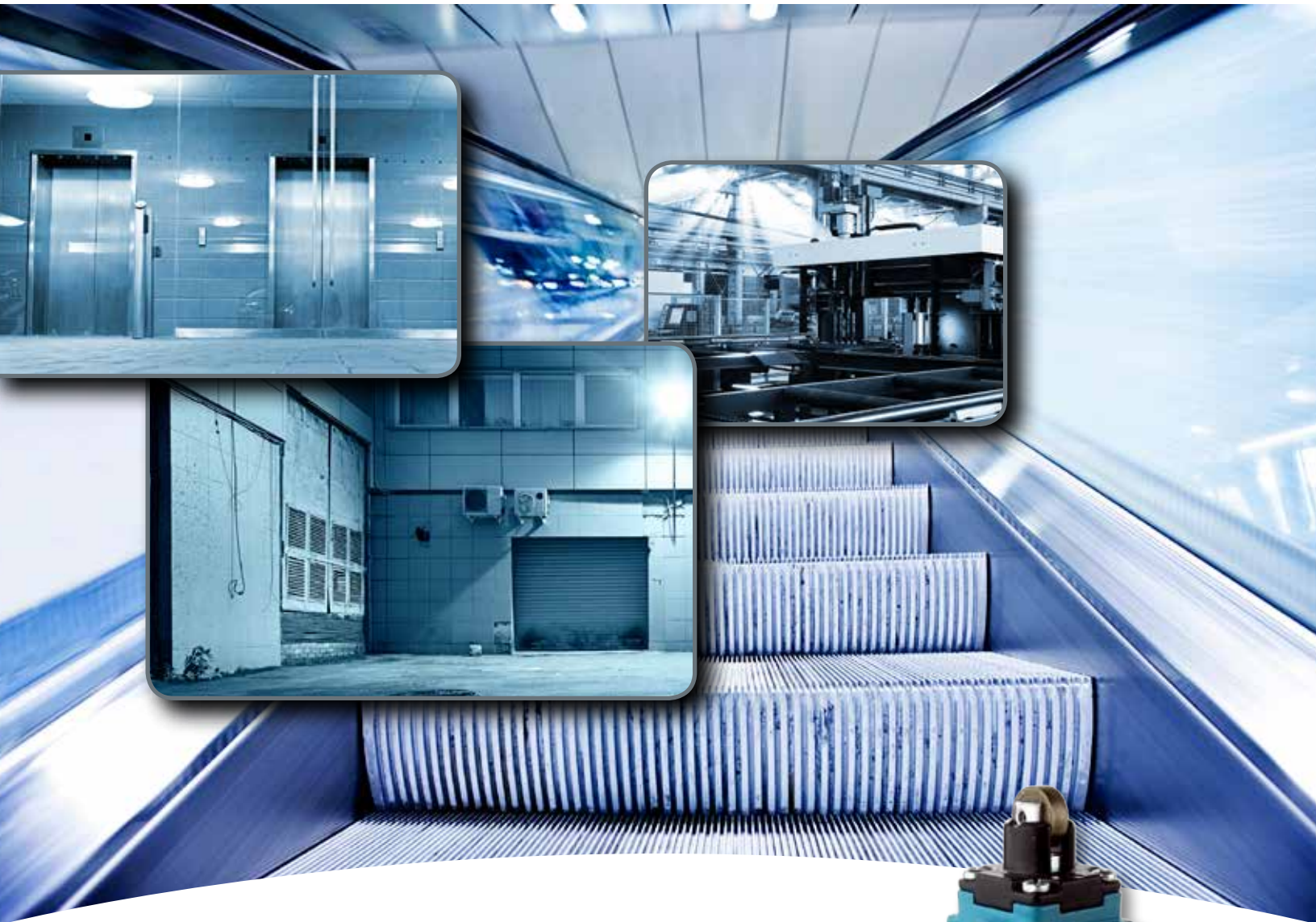




MICRO SWITCH™ GLS Global  
Miniature (EN50047) Limit Switches  
**GLC | GLD | GLE Series**



# MICRO SWITCH™ GLS Miniature (EN50047 Style) Limit Switches

The 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.

## ***What makes our switches better?***

- 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, CSA, CE, and UL acceptance

***Miniature global limit switch  
with heavy-duty ratings.***



EASY TO INSTALL AND MAINTAIN • GLOBAL  
RUGGED CONSTRUCTION • BUILT TO FIT

## Features and Benefits

### HOUSING MATERIAL OPTIONS

MICRO SWITCH™ GLS limit switches are manufactured with either a **metal housing or double-insulated plastic housing** for indoor and outdoor applications.

### FLEXIBLE OPERATING HEADS

Full range of actuator 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** to meet application requirements.

*Removable contact block for wiring ease.*

### BUILT FOR LONG LIFE

**Dual bearing design** on side rotary actuators reduces side loading and enhances mechanical life.

### CIRCUITRY OPTIONS

Wide variety of normally closed and normally open double-break snap-action or slow-action contact options are available with **silver contacts for power switching** or **gold-plated contacts for low energy loads**.

*Galvanically isolated contacts for controlling two separate circuits.*

### CIRCUIT FLEXIBILITY

Normally closed double break **direct opening contacts**  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) which provides circuit flexibility. Double pole double throw (2NC/2NO) contact option require same polarity for each pole. (Form Za for each pole).

### LOW TEMPERATURE FOR SEVERE ENVIRONMENTS

**-40 °C [-40 °F] standard construction** for side rotary and plunger actuated switches are suitable for many severe outdoor environments.

### GLOBAL ACCEPTANCE

With sealing up to **IP66** and **NEMA 4** for hostile environments, MICRO SWITCH™ GLS Series switches also carry **CE, UL, CSA, CCC** certification for global use.

## Potential Applications



### **PASSENGER ELEVATORS**

Buffer actuation, top stop, floor detection

### **COMMERICAL APPLIANCES**

Door interlock switch

### **ESCALATORS/MOVING STAIRS**

Side skirt detection, loose or missing tread, comb detection



### **SCISSOR/PLATFORM LIFTS**

Pothole detection, outrigger position, boom extend/retract

### **MATERIAL HANDLING**

Overhead doors

### **MACHINE TOOL EQUIPMENT**

Part presence, machine slide/table position, panel and door presence



### **OFF-ROAD EQUIPMENT**

- Agriculture planting and tillage equipment, stow position
- Road construction equipment, panel & door interlock switches
- Rail passenger door interlock switch
- Position of motorized railroad switch

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLS SERIES PRODUCT NOMENCLATURE

| GL                                             | C                             | A                   | 01                                             | A1A                                                        | L                                                                   |
|------------------------------------------------|-------------------------------|---------------------|------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|
| Switch Type                                    | Body                          | Conduit             | Basic Switch                                   | Head/Actuator                                              | Modification Codes<br>For Actuator types beginning with A*          |
| <b>GLS Series</b><br>Global<br>Limit<br>Switch | <b>C</b> Metal, miniature     | <b>A</b> 1/2-14 NPT | <b>01</b> SPDT snap action                     | <b>A1A</b> Side rotary, fixed, 19 mm x 6 mm nylon roller   | <b>E7B</b> Wobble, coil spring                                      |
|                                                | <b>D</b> Plastic, miniature   | <b>B</b> PG 13.5    | <b>03</b> SPDT, BBM slow acting                | <b>A1B</b> Side rotary, fixed, 19 mm x 6 mm steel roller   | <b>F</b> <sup>Δ</sup> Adj. top roller lever, Ø27,3 mm x 5 mm roller |
|                                                | <b>E</b> Metal, three conduit | <b>C</b> 20 mm      | <b>04</b> SPDT, MBB slow acting                | <b>A2A</b> Side rotary, adjust., 19 mm x 6 mm nylon roller | <b>K8A</b> Cat whisker, 140 mm                                      |
|                                                |                               |                     | <b>05</b> DPST, 2NO slow acting                | <b>A2B</b> Side rotary, adjust., 19 mm x 6 mm steel roller | <b>K8B</b> Cat whisker, 190 mm                                      |
|                                                |                               |                     | <b>06</b> DPST, 2NC slow acting                | <b>A4J</b> Side rotary, adjust., 140 mm aluminum rod       | <b>K8D</b> Cat whisker, 165 mm                                      |
|                                                |                               |                     | <b>07</b> SPDT, snap action, gold cont.        | <b>A4L</b> Side rotary, adjust., 200 mm aluminum rod       | <b>A1</b> Side rotary, fixed, no roller                             |
|                                                |                               |                     | <b>24</b> DPDT, snap action, Body E            | <b>A5A</b> Side rotary, offset, 19 mm x 6 mm nylon roller  | <b>A2</b> Side rotary, adjustable, no roller                        |
|                                                |                               |                     | <b>32</b> DPDT, snap action, gold cont. Body E | <b>A5B</b> Side rotary, offset, 19 mm x 6 mm steel roller  | <b>A1Y</b> Side rotary, fixed, 50 mm x 10 mm rubber roller          |
|                                                |                               |                     | <b>33</b> SPDT, BBM slow acting, gold contacts | <b>A9A</b> Side rotary, conveyor lever                     | <b>A2Y</b> Side rotary, adj., 50 mm x 10 mm rubber roller           |
|                                                |                               |                     | <b>34</b> SPDT, MBB slow acting, gold contacts | <b>B</b> Top pin plunger                                   | <sup>Δ</sup> Available with D style body (plastic) only.            |
|                                                |                               |                     | <b>35</b> DPST, 2NO slow acting, gold contacts | <b>C</b> Top roller plunger                                |                                                                     |
|                                                |                               |                     | <b>36</b> DPST, 2NC slow acting, gold contacts | <b>D</b> Top roller lever                                  |                                                                     |

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

\*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).

# GLS Series

**Table 1. Specifications**

| Characteristic           | Parameter                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing material         | GLC Series and GLE Series: Electrostatic epoxy coated zinc<br>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, M20, PF 1/2, Deutsch style 4-pin connector<br>other cable/connector options available, contact the Honeywell Representative |
| Contact options*         | GLC metal housing and GLD plastic housing: 1NC/1NO, 2NC, 2NO<br>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                                                                                                                              |
| Conforming to standards  | CE, EN50047, IEC/EN 60947-5-1; CSA C22.2 #14; UL 508; CCC GB14048.5                                                                              |

\*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).



**Table 2. Electrical Ratings**

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

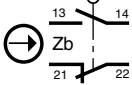
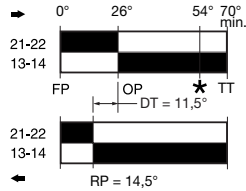
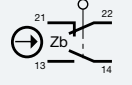
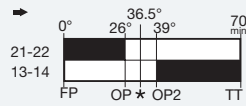
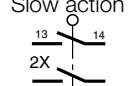
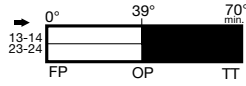
| Silver Contacts |            |      |       |            |            |      |       | Gold Contacts                      |
|-----------------|------------|------|-------|------------|------------|------|-------|------------------------------------|
| ac              |            |      |       | dc         |            |      |       | 1 V 10 µA min.<br>50 V 100 mA max. |
| A300<br>Ue      | AC15<br>Ie | VA   |       | Q300<br>Ue | DC13<br>Ie | VA   |       |                                    |
| 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    |                                    |

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLC SERIES ORDER GUIDE/RECOMMENDED LISTINGS

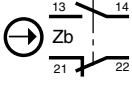
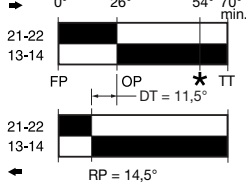
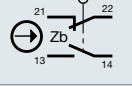
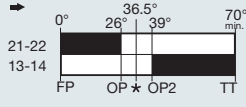
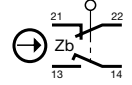
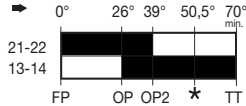
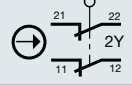
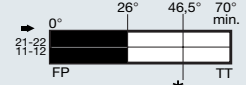
For listings not shown, contact your Honeywell representative.

Table 3. Side Rotary, Plastic Roller

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLCA01A1A |
|                                                                                   |          |                                                                                                       | Silver      | PG 13,5    |                                  |                                                                                     | GLCB01A1A |
|                                                                                   |          |                                                                                                       | Silver      | M20        |                                  |                                                                                     | GLCC01A1A |
|                                                                                   |          |                                                                                                       | Gold plated | M20        |                                  |                                                                                     | GLCC07A1A |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA03A1A |
|                                                                                   | 2 NO     | Slow action<br>      | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA05A1A |

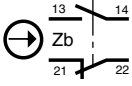
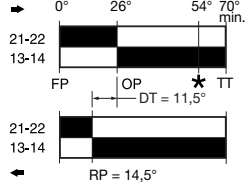
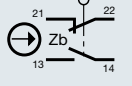
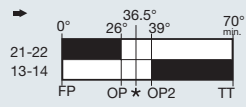
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 4. Side Rotary, Metal Roller

|                                                                                     | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                                | Listing   |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |   | GLCA01A1B |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                                  |                                                                                       | GLCB01A1B |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                                  |                                                                                       | GLCC01A1B |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                                  |                                                                                       | GLCB07A1B |
|                                                                                     |          |                                                                                                         | Gold plated | M20        |                                  |                                                                                       | GLCC07A1B |
|                                                                                     | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA03A1B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                                  |                                                                                       | GLCB03A1B |
|                                                                                     | 1NC/1NO  | MBB, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA04A1B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                                  |                                                                                       | GLCB04A1B |
|                                                                                     | 2 NC     | Slow action<br>      | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCB06A1B |

<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 5. Side Rotary Adjustable, Plastic Roller

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

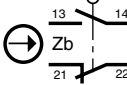
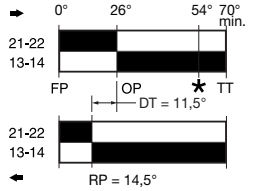
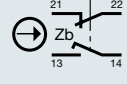
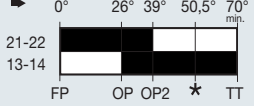
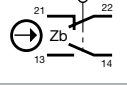
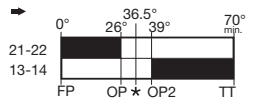
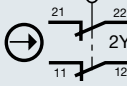
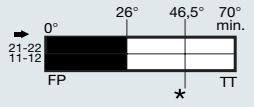
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

# GLS Series

## MICRO SWITCH™ GLC SERIES ORDER GUIDE/RECOMMENDED LISTINGS

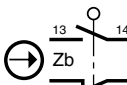
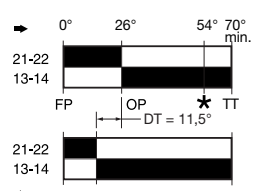
For listings not shown, contact your Honeywell representative.

Table 6. Side Rotary Adjustable, Metal Roller

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLCA01A2B |
|                                                                                   |          |                                                                                                       | Silver      | PG 13,5    |                                  |                                                                                     | GLCB01A2B |
|                                                                                   |          |                                                                                                       | Gold plated | PG 13,5    |                                  |                                                                                     | GLCB07A2B |
|                                                                                   |          |                                                                                                       | Silver      | M20        |                                  |                                                                                     | GLCC01A2B |
|                                                                                   |          |                                                                                                       | Gold plated | M20        |                                  |                                                                                     | GLCC07A2B |
|                                                                                   | 1NC/1NO  | MBB, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA04A2B |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | M20        | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCC03A2B |
|                                                                                   | 2NC      | Slow action<br>      | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCB06A2B |

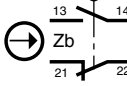
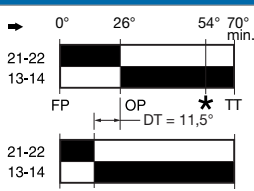
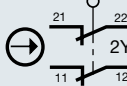
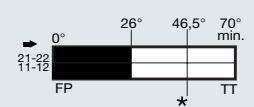
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

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 <sup>1</sup>                                                                | Listing   |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLCA01A4J |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                                  |                                                                                       | GLCB01A4J |
|                                                                                     |          |                                                                                                    |             | M20        |                                  |                                                                                       | GLCC01A4J |
|                                                                                     |          |                                                                                                    |             | PG13,5     |                                  |                                                                                       | GLCB01A4L |

<sup>1</sup>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 <sup>1</sup>                                                                | Listing   |
|------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14NPT  | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLCA01A5B |
|                                                                                    |          |                                                                                                    | Silver      | PG 13,5    |                                  |                                                                                       | GLCB01A5B |
|                                                                                    | 2NC      | Slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLCA06A5B |
|                                                                                    |          |                                                                                                    | Gold plated | 0.5-14 NPT |                                  |                                                                                       | GLCA36A5B |

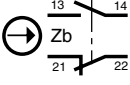
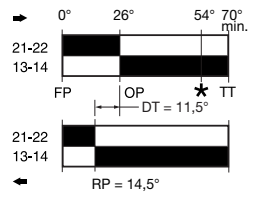
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLC SERIES ORDER GUIDE/RECOMMENDED LISTINGS

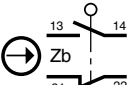
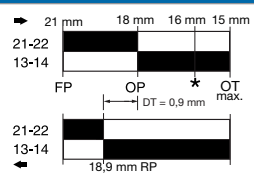
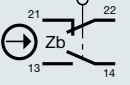
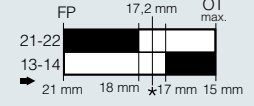
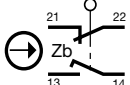
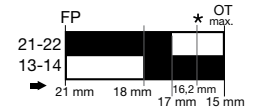
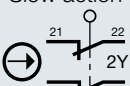
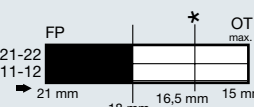
For listings not shown, contact your Honeywell representative.

Table 9. Side Rotary Conveyor Lever, Ceramic Roller

|                                                                                   | Contacts | Contact Type                                                                                     | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLCA01A9A |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                                  |                                                                                     | GLCB01A9A |
|                                                                                   |          |                                                                                                  |             | M20        |                                  |                                                                                     | GLCC01A9A |

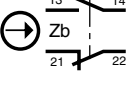
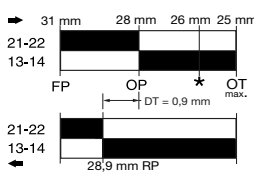
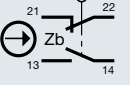
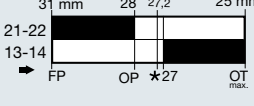
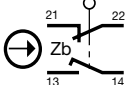
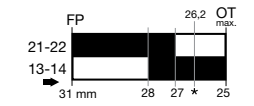
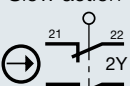
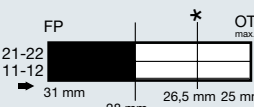
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 10. Top Pin Plunger

|                                                                                    | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Force                | Bar Chart <sup>1</sup>                                                                | Listing |
|------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|---------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br>        | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |    | GLCA01B |
|                                                                                    |          |                                                                                                         | Silver      | PG 13,5    |                            |                                                                                       | GLCB01B |
|                                                                                    |          |                                                                                                         | Silver      | M20        |                            |                                                                                       | GLCC01B |
|                                                                                    |          |                                                                                                         | Gold plated | PG 13,5    |                            |                                                                                       | GLCB07B |
|                                                                                    | 1NC/1NO  | BBM, slow action<br>  | Silver      | 0.5-14 NPT | 14 N max.<br>[3.2 lb max.] |   | GLCA03B |
|                                                                                    |          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLCB03B |
|                                                                                    | 1NC/1NO  | MBB, slow action<br> | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLCA04B |
|                                                                                    |          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLCB04B |
|                                                                                    | 2 NC     | Slow action<br>      | Silver      | PG 13,5    | 13 N max.<br>[2.9 lb max.] |  | GLCB06B |

<sup>1</sup>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 <sup>1</sup>                                                                | Listing |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|---------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLCA01C |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                            |                                                                                       | GLCB01C |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                            |                                                                                       | GLCB07C |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                            |                                                                                       | GLCC01C |
|                                                                                     | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 14 N max.<br>[3.2 lb max.] |  | GLCA03C |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLCB03C |
|                                                                                     | 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 16 N max.<br>[3.6 lb max.] |  | GLCB04C |
|                                                                                     | 2NC      | Slow action<br>      | Silver      | PG 13,5    | 13 N max.<br>[2.9 lb max.] |  | GLCB06C |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                            |                                                                                       | GLCB36C |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                            |                                                                                       | GLCC06C |

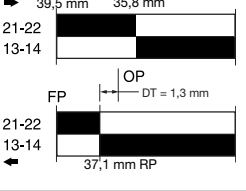
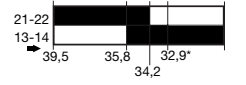
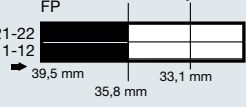
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

# GLS Series

## MICRO SWITCH™ GLC SERIES ORDER GUIDE/RECOMMENDED LISTINGS

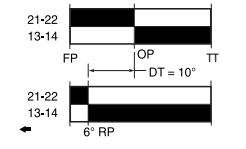
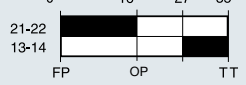
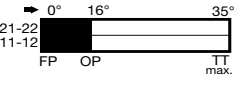
For listings not shown, contact your Honeywell representative.

Table 12. Top Roller Lever

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Force                | Bar Chart <sup>1</sup>                                                              | Listing |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|-------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 10 N max.<br>[2.2 lb max.] |  | GLCA01D |
|                                                                                   |          |                                                                                                       | Silver      | PG 13,5    |                            |                                                                                     | GLCB01D |
|                                                                                   |          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                     | GLCB07D |
|                                                                                   |          |                                                                                                       | Silver      | M20        |                            |                                                                                     | GLCC01D |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 9 N max.<br>[2.0 lb max.]  |  | GLCA03D |
|                                                                                   |          |                                                                                                       | Silver      | PG 13,5    |                            |                                                                                     | GLCB03D |
|                                                                                   |          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                     | GLCB33D |
|                                                                                   | 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 10 N max.<br>[2.2 lb max.] |  | GLCB04D |
|                                                                                   | 2NC      | Slow action<br>      | Silver      | M20        | 8 N max.<br>[1.8 lb max.]  |  | GLCC06D |
|                                                                                   |          |                                                                                                       | Gold plated | 0.5-14 NPT |                            |                                                                                     | GLCA36D |

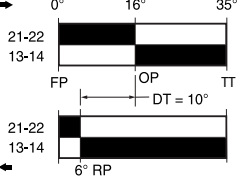
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

Table 13. Coil Spring Wobble, 130 mm

|                                                                                     | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Force                  | Bar Chart <sup>1</sup>                                                                | Listing   |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 1,3 N max.<br>[0.29 lb] max. |  | GLCA01E7B |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                              |                                                                                       | GLCB01E7B |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                              |                                                                                       | GLCC01E7B |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                              |                                                                                       | GLCB07E7B |
|                                                                                     | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 1,1 N max.<br>[0.25 lb] max. |  | GLCA03E7B |
|                                                                                     | 2NC      | Slow action<br>      | Silver      | 0.5-14 NPT | 1,1 N max.<br>[0.25 lb] max. |  | GLCA06E7B |

<sup>1</sup>Contact closed ■; Contact open □.

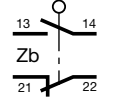
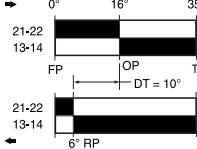
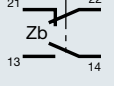
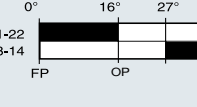
Table 14. Cat Whisker Wobble, 140 mm

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

<sup>1</sup>Contact closed ■; Contact open □.

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Table 15. Cat Whisker Wobble, 190 mm

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

<sup>1</sup>Contact closed ■; Contact open □.

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

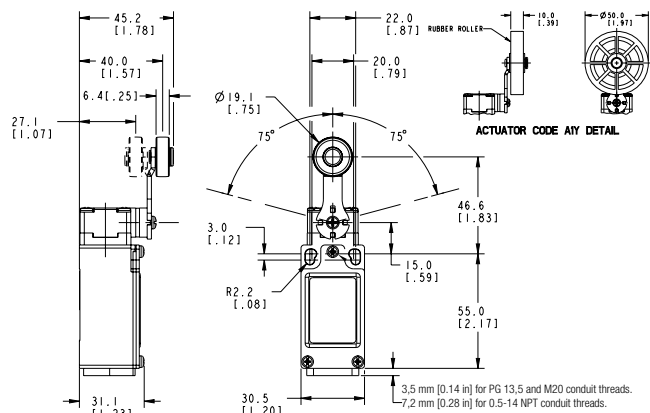


Figure 2. GLC Side Rotary • A2, A2A, A2B, and A2Y

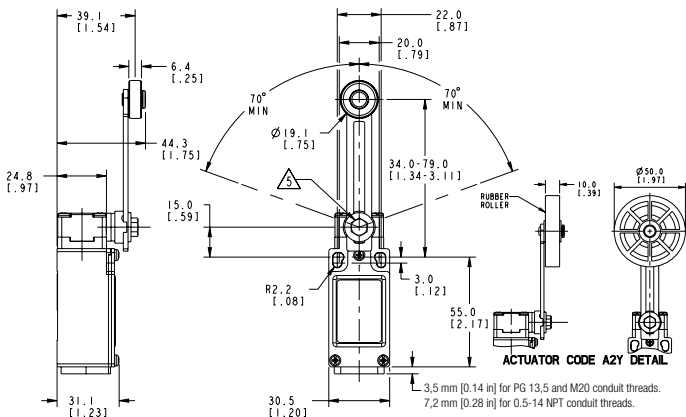


Figure 3. GLC Side Rotary Rod • A4J (140 mm) & A4L (200 mm)

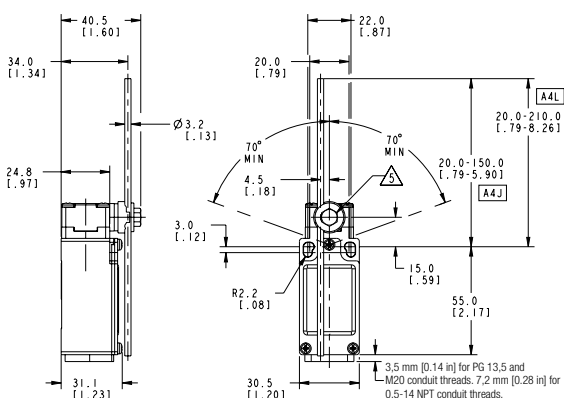


Figure 4. GLC Side Rotary • A5A and A5B

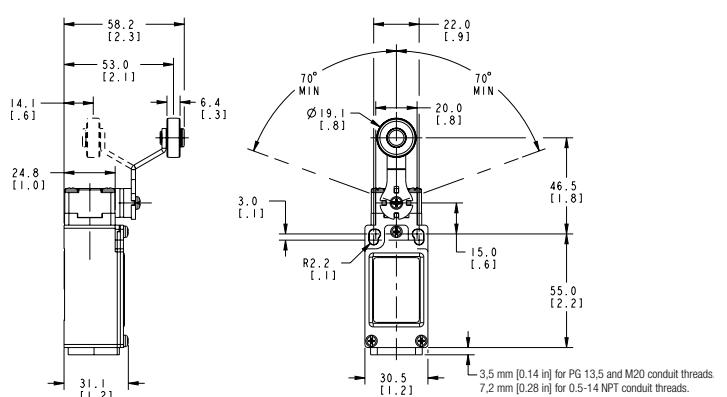


Figure 5. GLC Side Rotary • A9A

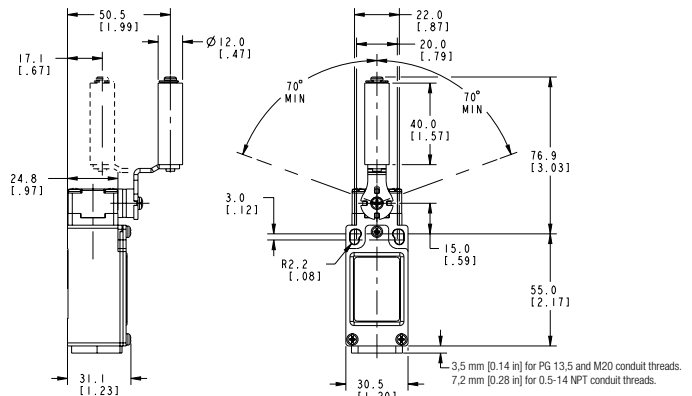
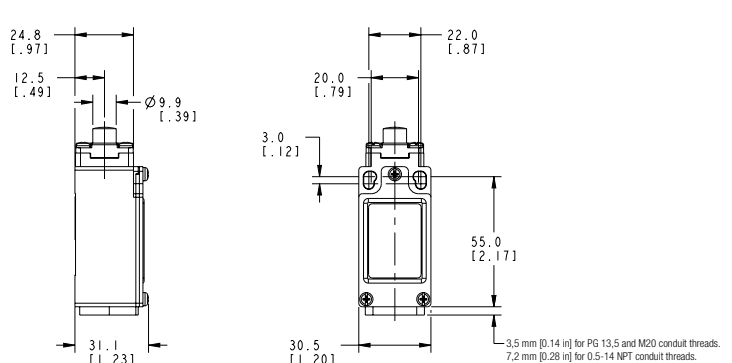


Figure 6. GLC Top Pin Plunger



# GLS Series

**Figure 7. GLC Top Roller Plunger**

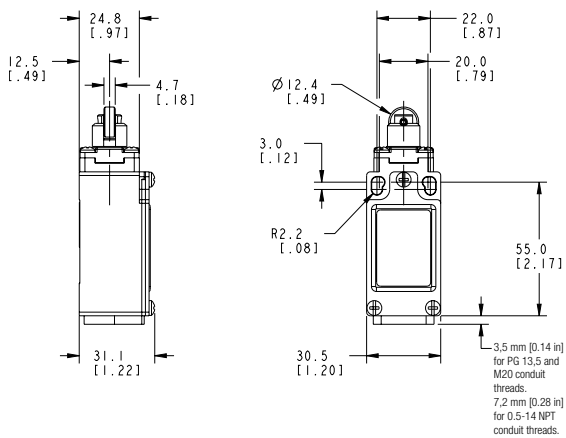


**Figure 9. GLC Wobble • E7B**

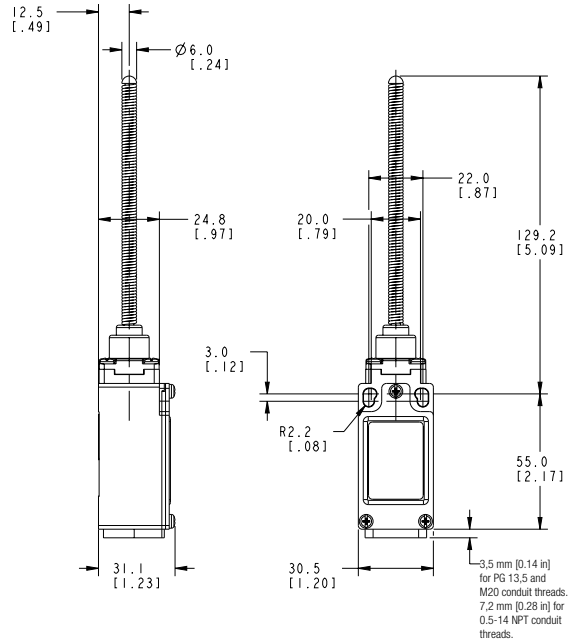


**Figure 8. GLC Top Roller Arm**

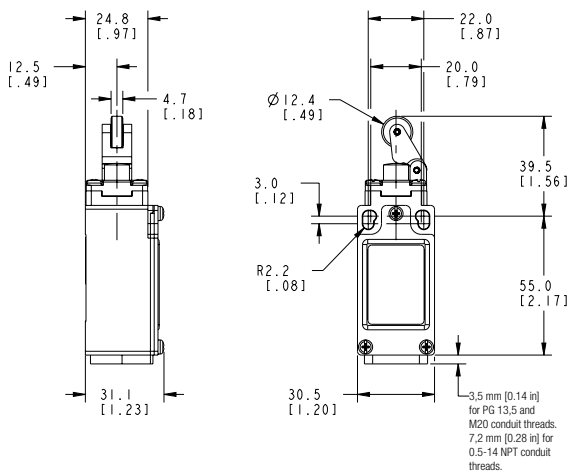


**Figure 10. GLC Wobble • K8A/K8B**

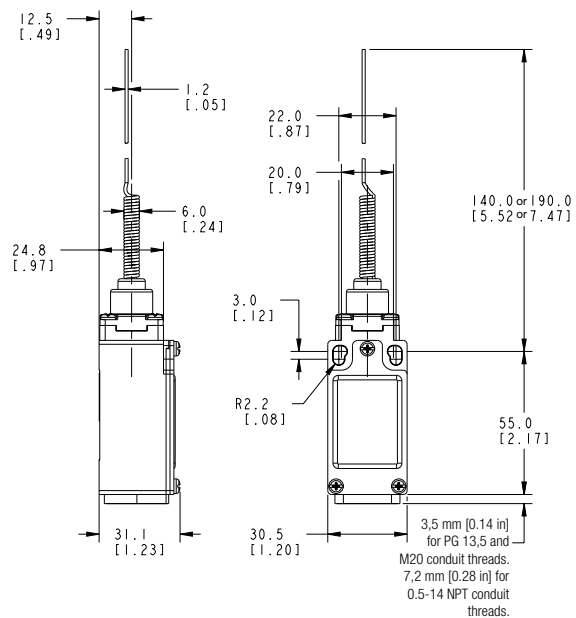
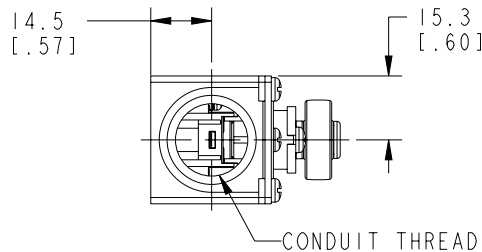


**Figure 11. GLC Conduit**

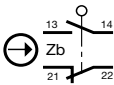
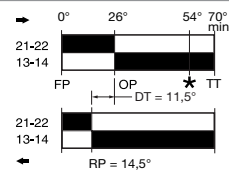
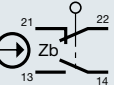
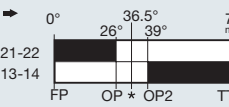
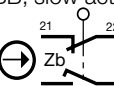
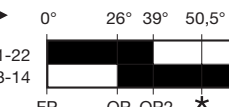
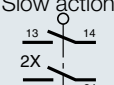
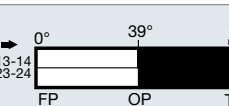
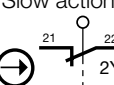


# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

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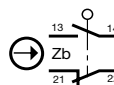
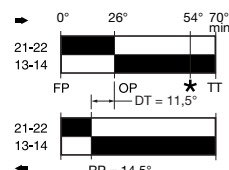
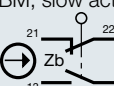
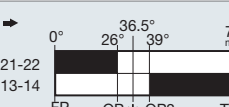
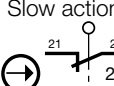
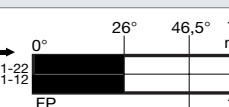
For listings not shown, contact your Honeywell representative.

Table 16. Side Rotary, Plastic Roller

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A1A |
|                                                                                   |          |                                                                                                       | Silver      | PG 13,5    |                                  |                                                                                     | GLDB01A1A |
|                                                                                   |          |                                                                                                       | Gold plated | PG 13,5    |                                  |                                                                                     | GLDB07A1A |
|                                                                                   |          |                                                                                                       | Silver      | M20        |                                  |                                                                                     | GLDC01A1A |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA03A1A |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB03A1A |
|                                                                                   | 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDB04A1A |
|                                                                                   | 2NO      | Slow action<br>      | Silver      | M20        | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDC05A1A |
|                                                                                   | 2NC      | Slow action<br>      | Silver      | M20        | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDC06A1A |

<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 17. Side Rotary, Metal Roller

|                                                                                     | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                                | Listing   |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A1B |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                                  |                                                                                       | GLDB01A1B |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                                  |                                                                                       | GLDB07A1B |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                                  |                                                                                       | GLDC01A1B |
|                                                                                     |          |                                                                                                         | Gold plated | M20        |                                  |                                                                                       | GLDC07A1B |
|                                                                                     | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA03A1B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                                  |                                                                                       | GLDB03A1B |
|                                                                                     | 2NC      | Slow action<br>      | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA06A1B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                                  |                                                                                       | GLDB06A1B |
|                                                                                     |          |                                                                                                         |             | M20        |                                  |                                                                                       | GLDC06A1B |

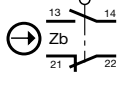
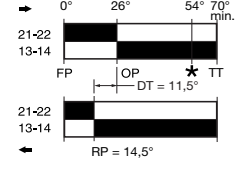
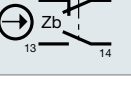
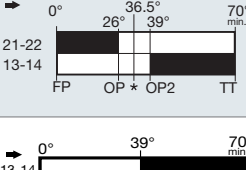
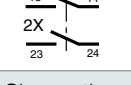
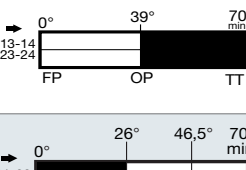
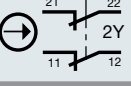
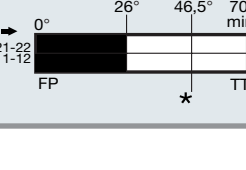
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

# GLS Series

## MICRO SWITCH™ GLD SERIES ORDER GUIDE/RECOMMENDED LISTINGS

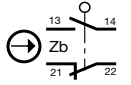
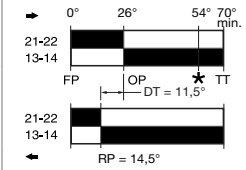
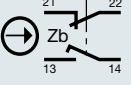
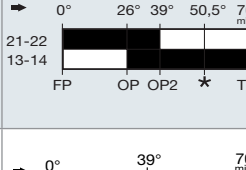
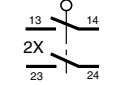
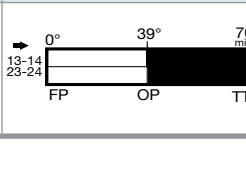
For listings not shown, contact your Honeywell representative.

Table 18. Side Rotary Adjustable, Plastic Roller

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing    |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|------------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A2A  |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB01A2** |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB01A2A  |
|                                                                                   |          |                                                                                                       | Gold plated | M20        |                                  |                                                                                     | GLDC01A2A  |
|  | 1NC/1NO  | BBM, slow action<br> | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDB03A2A  |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|  | 2NO      | Slow action<br>      | Silver      | M20        | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDC05A2A  |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|  | 2NC      | Slow action<br>      | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA06A2A  |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     | GLDB06A2A  |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |            |

<sup>1</sup>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 <sup>1</sup>                                                                | Listing   |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[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      | M20        |                                  |                                                                                       | GLDC01A2B |
|  | 1NC/1NO  | MBB, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA04A2B |
|                                                                                     |          |                                                                                                         |             |            |                                  |                                                                                       |           |
|                                                                                     |          |                                                                                                         |             |            |                                  |                                                                                       |           |
|  | 2NO      | Slow action<br>      | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA05A2B |
|                                                                                     |          |                                                                                                         |             |            |                                  |                                                                                       |           |

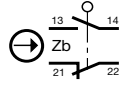
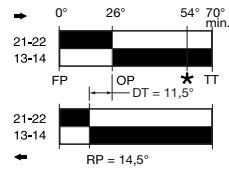
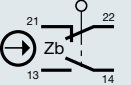
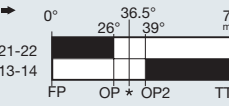
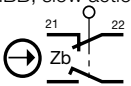
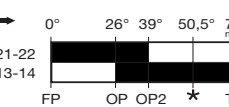
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLD SERIES ORDER GUIDE/RECOMMENDED LISTINGS

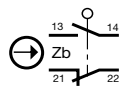
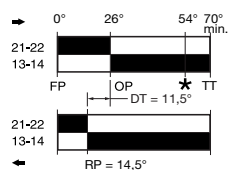
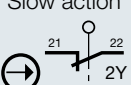
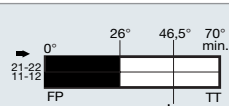
For listings not shown, contact your Honeywell representative.

Table 20. Side Rotary Adjustable, Metal Rod

| Contacts                                                                                     | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Force                      | Bar Chart <sup>1</sup>                                                              | Listing   |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | <br>Snap action      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A4J |
|                                                                                              |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB01A4J |
|                                                                                              |                                                                                                       |             | M20        |                                  |                                                                                     | GLDC01A4J |
| 1NC/1NO                                                                                      | <br>BBM, slow action | Silver      | M20        | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDC03A4J |
| 1NC/1NO                                                                                      | <br>MBB, slow action | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA04A4J |

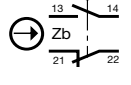
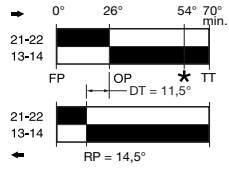
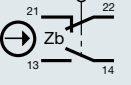
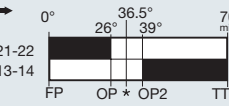
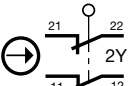
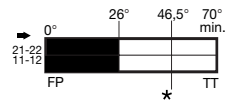
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 21. Side Rotary Offset Lever, Metal Roller

| Contacts                                                                                      | Contact Type                                                                                       | Contact Mtl | Conduit   | Oper. Torque                     | Bar Chart <sup>1</sup>                                                                | Listing   |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------|-----------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | <br>Snap action  | Silver      | 0.5-14NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |   | GLDA01A5B |
|                                                                                               |                                                                                                    | Silver      | PG 13,5   |                                  |                                                                                       | GLDB01A5B |
|                                                                                               |                                                                                                    | Silver      | M20       |                                  |                                                                                       | GLDC01A5B |
| 2NC                                                                                           | <br>Slow action | Gold plated | PG 13,5   | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDB36A5B |

<sup>1</sup>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 <sup>1</sup>                                                                | Listing   |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | <br>Snap action      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A9A |
|                                                                                                |                                                                                                         | Gold plated | 0.5-14 NPT |                                  |                                                                                       | GLDA07A9A |
|                                                                                                |                                                                                                         | Silver      | M20        |                                  |                                                                                       | GLDC01A9A |
| 1NC/1NO                                                                                        | <br>BBM, slow action | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA03A9A |
| 2NC                                                                                            | <br>Slow action      | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA06A9A |

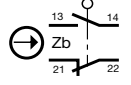
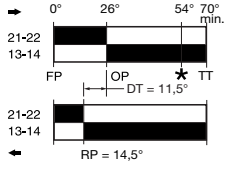
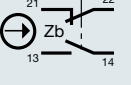
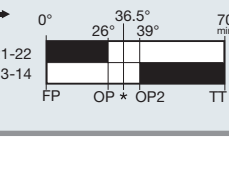
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

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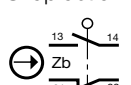
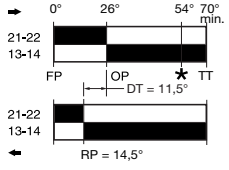
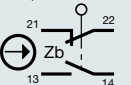
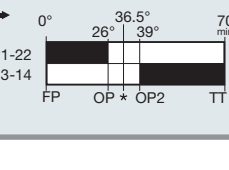
For listings not shown, contact your Honeywell representative.

Table 23. Side Rotary, 50 mm Rubber Roller

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Torque                     | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] |  | GLDA01A1Y |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB01A1Y |
|                                                                                   |          |                                                                                                       |             | M20        |                                  |                                                                                     | GLDC01A1Y |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,11 Nm max.<br>[1.0 in-lb max.] |  | GLDA03A1Y |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                                  |                                                                                     | GLDB03A1Y |
|                                                                                   |          |                                                                                                       |             |            |                                  |                                                                                     |           |

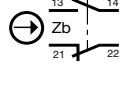
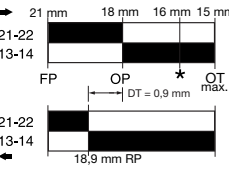
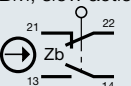
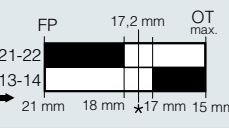
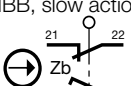
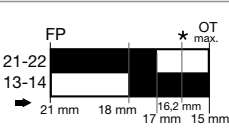
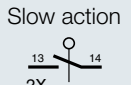
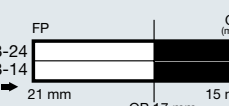
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 24. Side Rotary Adjustable, 50 mm Rubber Roller

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

<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs.

Table 25. Top Pin Plunger

|                                                                                     | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Force                | Bar Chart <sup>1</sup>                                                                | Listing |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|---------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLDA01B |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                            |                                                                                       | GLDB01B |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                            |                                                                                       | GLDB07B |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                            |                                                                                       | GLDC01B |
|                                                                                     |          |                                                                                                         | Gold plated | M20        |                            |                                                                                       | GLDC07B |
|                                                                                     | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14NPT  | 14 N max.<br>[3.2 lb max.] |  | GLDA03B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLDB03B |
|                                                                                     | 1NC/1NO  | MBB, slow action<br> | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLDA04B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLDB04B |
|                                                                                     |          |                                                                                                         |             | M20        |                            |                                                                                       | GLDC04B |
|                                                                                     | 2 NO     | Slow action<br>      | Silver      | M20        | 13 N max.<br>[2.9 lb max.] |  | GLDC05B |

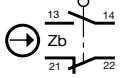
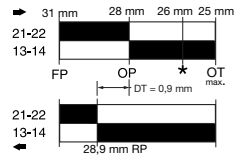
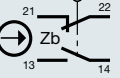
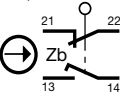
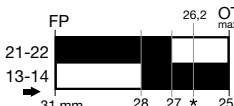
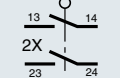
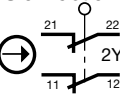
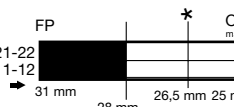
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLD SERIES ORDER GUIDE/RECOMMENDED LISTINGS

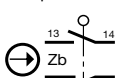
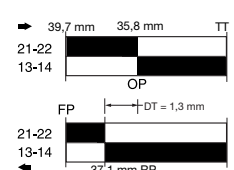
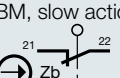
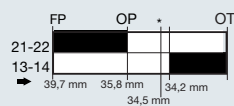
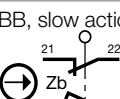
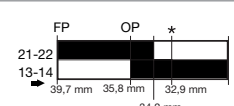
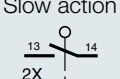
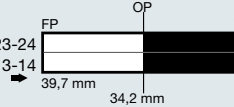
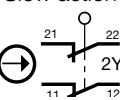
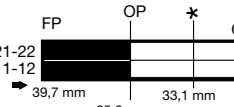
For listings not shown, contact your Honeywell representative.

Table 26. Top Roller Plunger

| Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Force                | Bar Chart <sup>1</sup>                                                               | Listing |
|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|--------------------------------------------------------------------------------------|---------|
| 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |   | GLDA01C |
|          |                                                                                                       | Gold plated | 0.5-14 NPT |                            |                                                                                      | GLDA07C |
|          |                                                                                                       | Silver      | PG 13,5    |                            |                                                                                      | GLDB01C |
|          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                      | GLDB07C |
|          |                                                                                                       | Silver      | M20        |                            |                                                                                      | GLDC01C |
| 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 14 N max.<br>[3.2 lb max.] |   | GLDA03C |
|          |                                                                                                       | Silver      | PG 13,5    |                            |                                                                                      | GLDB03C |
|          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                      | GLDB33C |
|          |                                                                                                       | Silver      | M20        |                            |                                                                                      | GLDC03C |
| 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 16 N max.<br>[3.6 lb max.] |   | GLDB04C |
| 2NO      | Slow action<br>      | Silver      | M20        | 13 N max.<br>[2.9 lb max.] |   | GLDC05C |
| 2NC      | Slow action<br>    | Silver      | 0.5-14 NPT | 13 N max.<br>[2.9 lb max.] |  | GLDA06C |
|          |                                                                                                       | Silver      | PG 13,5    |                            |                                                                                      | GLDB06C |
|          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                      | GLDB36C |
|          |                                                                                                       | Silver      | M20        |                            |                                                                                      | GLDC06C |

<sup>1</sup>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 <sup>1</sup>                                                                | Listing |
|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|---------------------------------------------------------------------------------------|---------|
| 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 10 N max.<br>[2.2 lb max.] |  | GLDA01D |
|          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLDB01D |
|          |                                                                                                         |             | M20        |                            |                                                                                       | GLDC01D |
| 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 9 N max.<br>[2.0 lb max.]  |  | GLDA03D |
|          |                                                                                                         |             | PG 13,5    |                            |                                                                                       | GLDB03D |
|          |                                                                                                         |             | M20        |                            |                                                                                       | GLDC03D |
| 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 10 N max.<br>[2.2 lb max.] |  | GLDB04D |
| 2NO      | Slow action<br>      | Silver      | M20        | 8 N max.<br>[1.8 lb max.]  |  | GLDC05D |
| 2NC      | Slow action<br>      | Silver      | 0.5-14 NPT | 8 N max.<br>[1.8 lb max.]  |  | GLDA06D |
|          |                                                                                                         |             | M20        |                            |                                                                                       | GLDC06D |

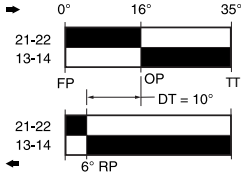
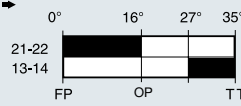
<sup>1</sup>Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters.

# GLS Series

## MICRO SWITCH™ GLD SERIES ORDER GUIDE/RECOMMENDED LISTINGS

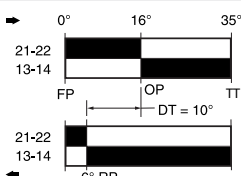
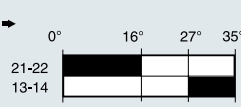
For listings not shown, contact your Honeywell representative.

Table 28. Coil Spring Wobble, 130 mm

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit    | Oper. Force                  | Bar Chart <sup>1</sup>                                                              | Listing   |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 1,3 N max.<br>[0.29 lb max.] |  | GLDA01E7B |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                              |                                                                                     | GLDB01E7B |
|                                                                                   |          |                                                                                                       |             | M20        |                              |                                                                                     | GLDC01E7B |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 1,1 N max.<br>[0.25 lb max.] |  | GLDA03E7B |

<sup>1</sup>Contact closed ■; Contact open □.

Table 29. Cat Whisker Wobble, 190 mm

|                                                                                    | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit    | Oper. Force                  | Bar Chart <sup>1</sup>                                                                | Listing   |
|------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>        | Silver      | 0.5-14 NPT | 0,9 N max.<br>[0.19 lb max.] |    | GLDA01K8B |
|                                                                                    |          |                                                                                                         |             | PG 13,5    |                              |                                                                                       | GLDB01K8B |
|                                                                                    |          |                                                                                                         |             | M20        |                              |                                                                                       | GLDC01K8B |
|                                                                                    | 1NC/1NO  | BBM, slow action<br> | Silver      | 0.5-14 NPT | 0,7 N max.<br>[0.16 lb max.] |  | GLDA03K8B |

<sup>1</sup>Contact closed ■; Contact open □.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLD DIMENSIONAL DRAWINGS mm [in]

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

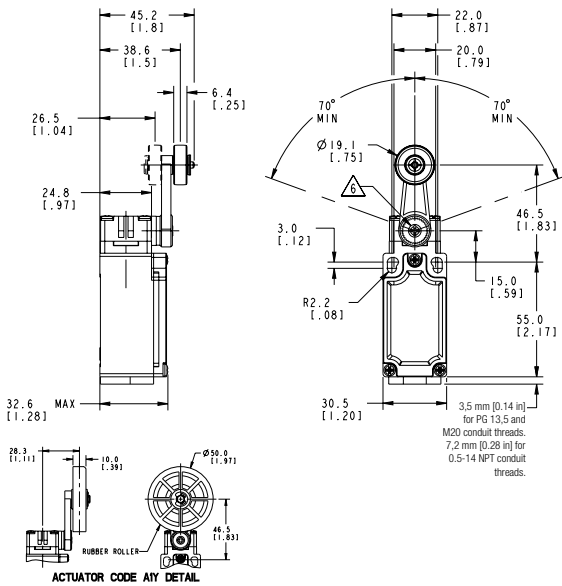


Figure 13. GLD Side Rotary • A2, A2A, A2B, and A2Y

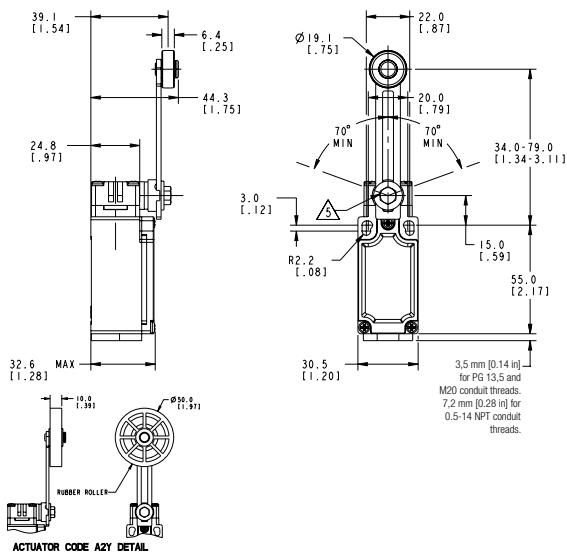


Figure 14. GLD Side Rotary Rod • A4J (140 mm) & A4L (200 mm)

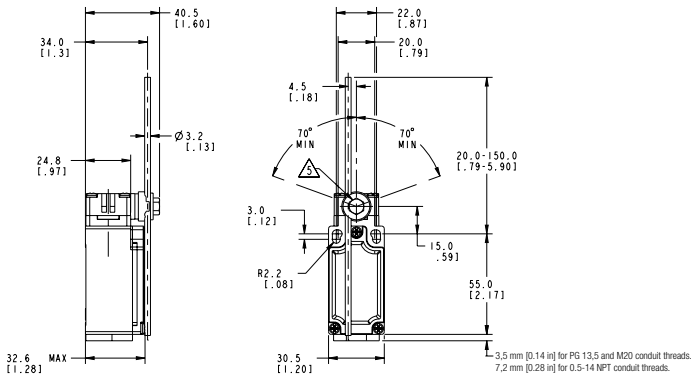


Figure 15. GLD Side Rotary • A5A and A5B

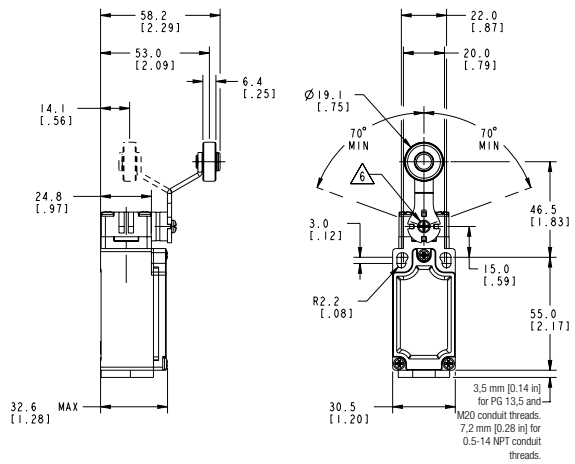


Figure 16. GLD Side Rotary • A9A

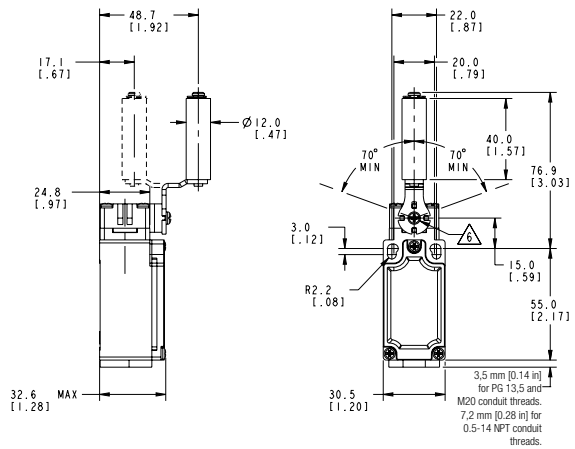
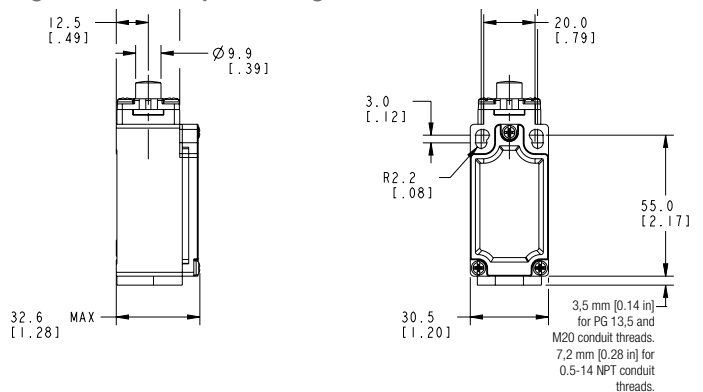


Figure 17. GLD Top Pin Plunger



## MICRO SWITCH™ GLD DIMENSIONAL DRAWINGS mm [in]

Figure 18. GLD Top Roller Plunger

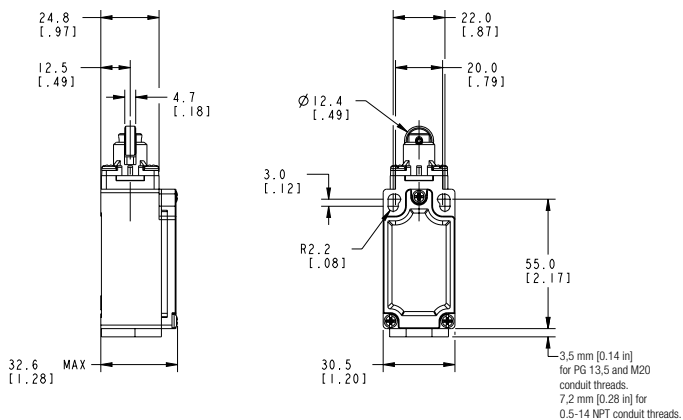


Figure 20. GLD Wobble • E7B

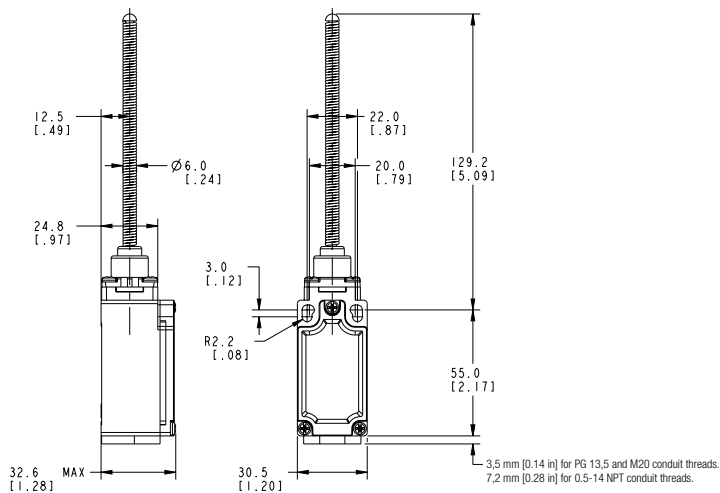


Figure 19. GLD Top Roller Arm

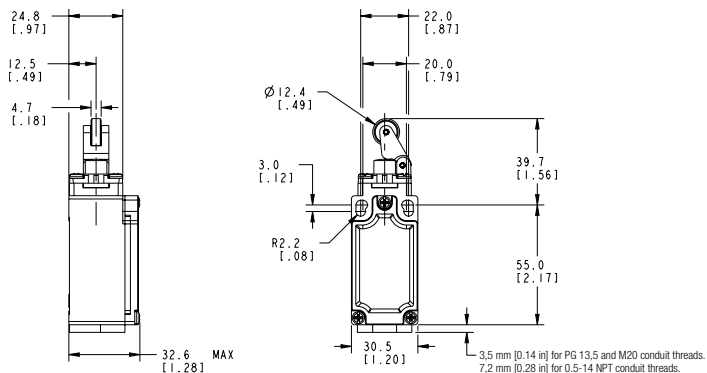


Figure 21. GLD Wobble • K8A/K8B

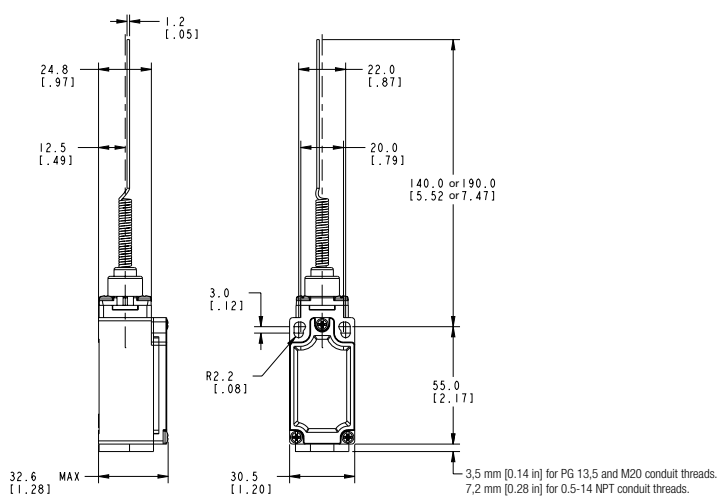
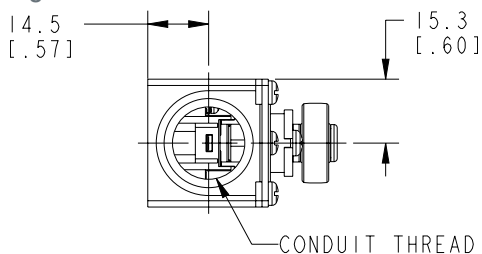


Figure 22. GLD Conduit

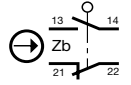
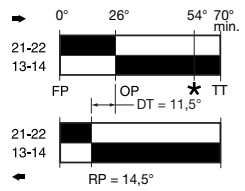
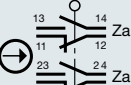
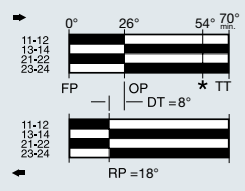
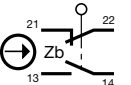
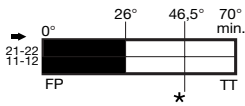


# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLE SERIES ORDER GUIDE/RECOMMENDED LISTINGS

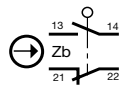
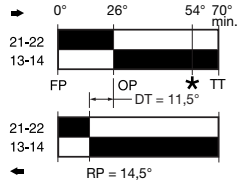
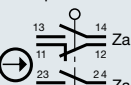
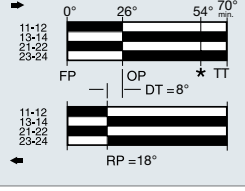
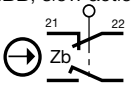
For listings not shown, contact your Honeywell representative.

Table 30. Side Rotary, Plastic Roller

|                                                                                   | Contacts | Contact Type                                                                                     | Contact Mtl | Conduit †  | Oper. Torque                      | Bar Chart¹                                                                          | Listing   |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  |  | GLEA01A1A |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                                   |                                                                                     | GLEB01A1A |
|                                                                                   | 2NC/2NO  | Snap action<br> | Gold plated | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] |  | GLEA32A1A |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                                   |                                                                                     | GLEB32A1A |
|                                                                                   | 2NC      | Slow action<br> | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.]  |  | GLEB06A1A |
|                                                                                   |          |                                                                                                  |             |            |                                   |                                                                                     |           |

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

Table 31. Side Rotary, Metal Roller

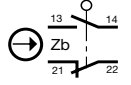
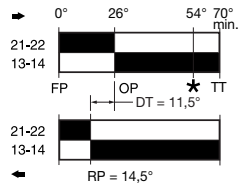
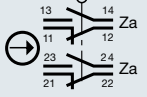
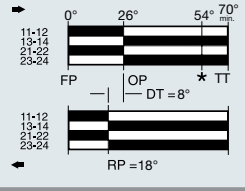
|                                                                                     | Contacts | Contact Type                                                                                            | Contact Mtl | Conduit †  | Oper. Torque                      | Bar Chart¹                                                                            | Listing   |
|-------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  |  | GLEA01A1B |
|                                                                                     |          |                                                                                                         | Silver      | PG 13,5    |                                   |                                                                                       | GLEB01A1B |
|                                                                                     |          |                                                                                                         | Gold plated | PG 13,5    |                                   |                                                                                       | GLEB07A1B |
|                                                                                     |          |                                                                                                         | Silver      | M20        |                                   |                                                                                       | GLEC01A1B |
|                                                                                     | 2NC/2NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] |  | GLEA24A1B |
|                                                                                     |          |                                                                                                         |             | PG 13,5    |                                   |                                                                                       | GLEB24A1B |
|                                                                                     |          |                                                                                                         |             | M20        |                                   |                                                                                       | GLEC24A1B |
|                                                                                     | 1NC/1NO  | MBB, slow action<br> | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.]  |  | GLEB04A1B |

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

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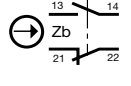
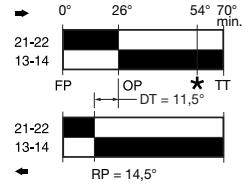
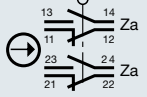
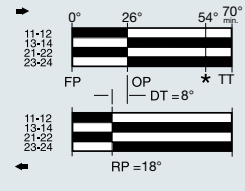
For listings not shown, contact your Honeywell representative.

Table 32. Side Rotary Adjustable, Plastic Roller

|                                                                                   | Contacts | Contact Type                                                                                     | Contact Mtl | Conduit †  | Oper. Torque                      | Bar Chart¹                                                                          | Listing   |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|-------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  |  | GLEA01A2A |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                                   |                                                                                     | GLEB01A2A |
|                                                                                   | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] |  | GLEA24A2A |
|                                                                                   |          |                                                                                                  |             | M20        |                                   |                                                                                     | GLEC24A2A |

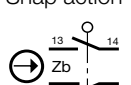
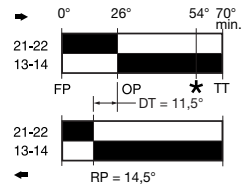
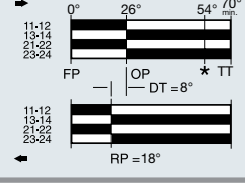
¹Contact closed ■; Contact open □. \*Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

Table 33. Side Rotary Adjustable, Metal Roller

|                                                                                    | Contacts | Contact Type                                                                                       | Contact Mtl | Conduit †  | Oper. Torque                      | Bar Chart¹                                                                            | Listing   |
|------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br>  | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  |   | GLEA01A2B |
|                                                                                    |          |                                                                                                    |             | PG 13,5    |                                   |                                                                                       | GLEB01A2B |
|                                                                                    |          |                                                                                                    |             | M20        |                                   |                                                                                       | GLEC01A2B |
|                                                                                    |          |                                                                                                    | Gold plated | PG 13,5    |                                   |                                                                                       | GLEB07A2B |
|                                                                                    | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] |  | GLEA24A2B |
|                                                                                    |          |                                                                                                    |             | PG 13,5    |                                   |                                                                                       | GLEB24A2B |

¹Contact 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 Chart¹                                                                            | Listing   |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  |  | GLEA01A4J |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                                   |                                                                                       | GLEB01A4J |
|                                                                                     |          |                                                                                                    |             | M20        |                                   |                                                                                       | GLEC01A4J |
|                                                                                     | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] |  | GLEA24A4J |

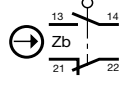
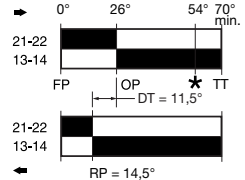
¹Contact closed ■; Contact open □. \*Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLE SERIES ORDER GUIDE/RECOMMENDED LISTINGS

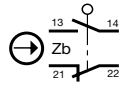
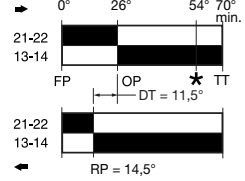
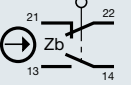
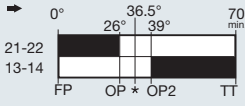
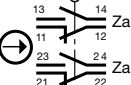
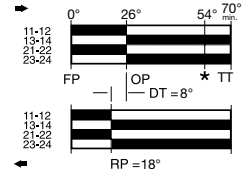
For listings not shown, contact your Honeywell representative.

**Table 35. Side Rotary Offset Lever, Plastic Roller**

| Contacts                                                                                     | Contact Type                                                                                           | Contact Mtl | Conduit †  | Oper. Torque                     | Bar Chart¹                                                                                        | Listing   |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------------|---------------------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | Snap action<br><br>Zb | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.] | <br>RP = 14,5° | GLEA01A5A |
|                                                                                              |                                                                                                        |             | PG 13,5    |                                  |                                                                                                   | GLEB01A5A |

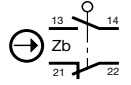
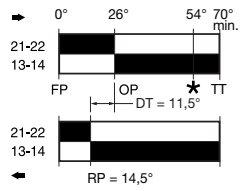
¹Contact closed ■; Contact open □. \*Positive opening occurs. † 0.5-14 NPT conduit option includes adapter.

**Table 36. Side Rotary Offset Lever, Metal Roller**

| Contacts                                                                                     | Contact Type                                                                                                 | Contact Mtl | Conduit †  | Oper. Torque                      | Bar Chart¹                                                                                         | Listing   |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------|----------------------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | Snap action<br><br>Zb       | Silver      | 0.5-14 NPT | 0,12 Nm max.<br>[1.1 in-lb max.]  | <br>RP = 14,5°  | GLEA01A5B |
|                                                                                              |                                                                                                              |             | PG 13,5    |                                   |                                                                                                    | GLEB01A5B |
| 1NC/1NO                                                                                      | BBM, slow action<br><br>Zb | Silver      | PG 13,5    | 0,11 Nm max.<br>[1.0 in-lb max.]  | <br>RP = 14,5° | GLEB03A5B |
| 2NC/2NO                                                                                      | Snap action<br><br>Za     | Silver      | 0.5-14 NPT | 0,165 Nm max.<br>[1.6 in-lb max.] | <br>RP = 18°  | GLEA24A5B |

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

**Table 37. Side Rotary Conveyor Lever, Ceramic Roller**

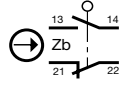
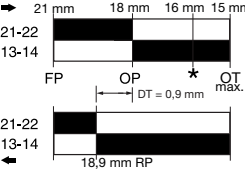
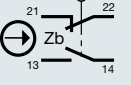
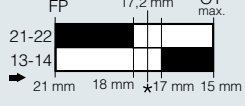
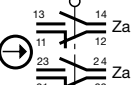
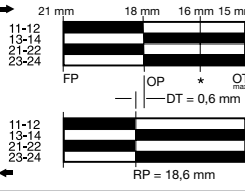
| Contacts                                                                                       | Contact Type                                                                                             | Contact Mtl | Conduit | Oper. Torque                     | Bar Chart¹                                                                                          | Listing   |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------|---------|----------------------------------|-----------------------------------------------------------------------------------------------------|-----------|
| <br>1NC/1NO | Snap action<br><br>Zb | Silver      | PG 13,5 | 0,12 Nm max.<br>[1.1 in-lb max.] | <br>RP = 14,5° | GLEB01A9A |
|                                                                                                |                                                                                                          |             | M20     |                                  |                                                                                                     | GLEC01A9A |

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

## MICRO SWITCH™ GLE SERIES ORDER GUIDE/RECOMMENDED LISTINGS

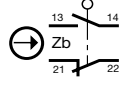
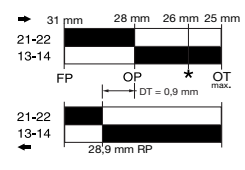
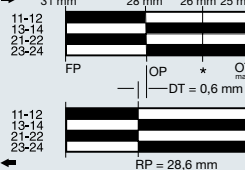
For listings not shown, contact your Honeywell representative.

Table 38. Top Pin Plunger

|                                                                                   | Contacts | Contact Type                                                                                          | Contact Mtl | Conduit †  | Oper. Force                | Bar Chart¹                                                                          | Listing |
|-----------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|-------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLEA01B |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                            |                                                                                     | GLEB01B |
|                                                                                   |          |                                                                                                       | Gold plated | M20        |                            |                                                                                     | GLEC01B |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                            |                                                                                     | GLEB07B |
|                                                                                   | 1NC/1NO  | BBM, slow action<br> | Silver      | PG 13,5    | 14 N max.<br>[3.2 lb max.] |  | GLEB03B |
|                                                                                   |          |                                                                                                       |             | M20        |                            |                                                                                     | GLEC03B |
|                                                                                   |          |                                                                                                       | Gold plated | PG 13,5    |                            |                                                                                     | GLEB33B |
|                                                                                   |          |                                                                                                       |             | M20        |                            |                                                                                     | GLEC33B |
|                                                                                   | 2NC/2NO  | Snap action<br>      | Silver      | 0.5-14 NPT | 13 N max.<br>[2.9 lb max.] |  | GLEA24B |
|                                                                                   |          |                                                                                                       |             | PG 13,5    |                            |                                                                                     | GLEB24B |
|                                                                                   |          |                                                                                                       | Gold plated | M20        |                            |                                                                                     | GLEC24B |
|                                                                                   |          |                                                                                                       |             | M20        |                            |                                                                                     | GLEC32B |

¹Contact 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 Chart¹                                                                            | Listing |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|----------------------------|---------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 16 N max.<br>[3.6 lb max.] |  | GLEA01C |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                            |                                                                                       | GLEB01C |
|                                                                                     |          |                                                                                                    | Gold plated | M20        |                            |                                                                                       | GLEC01C |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                            |                                                                                       | GLEB07C |
|                                                                                     | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 13 N max.<br>[2.9 lb max.] |  | GLEA24C |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                            |                                                                                       | GLEB24C |
|                                                                                     |          |                                                                                                    |             | M20        |                            |                                                                                       | GLEC24C |
|                                                                                     |          |                                                                                                    |             | M20        |                            |                                                                                       | GLEC24C |

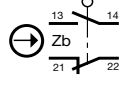
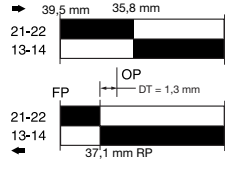
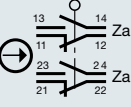
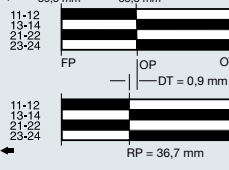
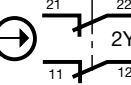
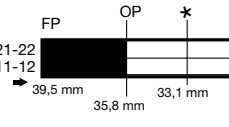
¹Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLE SERIES ORDER GUIDE/RECOMMENDED LISTINGS

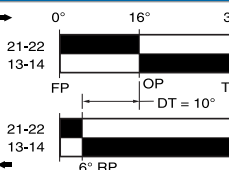
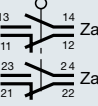
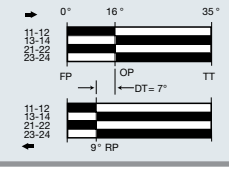
For listings not shown, contact your Honeywell representative.

Table 40. Top Roller Lever

|                                                                                   | Contacts | Contact Type                                                                                     | Contact Mtl | Conduit †  | Oper. Force                  | Bar Chart¹                                                                          | Listing |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------------------|-------------|------------|------------------------------|-------------------------------------------------------------------------------------|---------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 10 N max.<br>[2.2 lb max.]   |  | GLEA01D |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                              |                                                                                     | GLEB01D |
|                                                                                   |          |                                                                                                  |             | M20        |                              |                                                                                     | GLEC01D |
|                                                                                   | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 3,2 N max.<br>[0.72 lb max.] |  | GLEA24D |
|                                                                                   |          |                                                                                                  |             | PG 13,5    |                              |                                                                                     | GLEB24D |
|                                                                                   |          |                                                                                                  |             | M20        |                              |                                                                                     | GLEC24D |
|                                                                                   | 2 NC     | Slow action<br> | Silver      | 0.5-14 NPT | 8 N max.<br>[1.8 lb max.]    |  | GLEA06D |

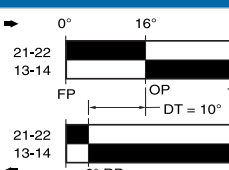
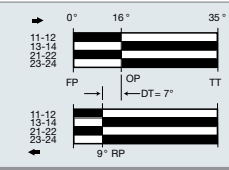
¹Contact closed ■; Contact open □. \*Positive opening occurs. NOTE: Bar chart measurements are in millimeters. † 0.5-14 NPT conduit option includes adapter.

Table 41. Coil Spring Wobble, 130 mm

|                                                                                     | Contacts | Contact Type                                                                                       | Contact Mtl | Conduit †  | Oper. Force                  | Bar Chart¹                                                                            | Listing   |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|------------|------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | 0.5-14 NPT | 1,3 N max.<br>[0.29 lb max.] |   | GLEA01E7B |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                              |                                                                                       | GLEB01E7B |
|                                                                                     | 2NC/2NO  | Snap action<br> | Silver      | 0.5-14 NPT | 1.1 N max.<br>0.25 lb max.]  |  | GLEA24E7B |
|                                                                                     |          |                                                                                                    |             | PG 13,5    |                              |                                                                                       | GLEB24E7B |

¹Contact 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 Chart¹                                                                            | Listing   |
|-------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|-------------|---------|------------------------------|---------------------------------------------------------------------------------------|-----------|
|  | 1NC/1NO  | Snap action<br> | Silver      | PG 13,5 | 0,9 N max.<br>[0.19 lb max.] |  | GLEB01K8A |
|                                                                                     |          |                                                                                                    | Gold plated | PG 13,5 |                              |                                                                                       | GLEB07K8A |
|                                                                                     | 2NC/2NO  | Snap action<br> | Silver      | PG 13,5 | 1.1 N max.<br>0.25 lb max.]  |  | GLEB24K8A |
|                                                                                     |          |                                                                                                    |             |         |                              |                                                                                       |           |

¹Contact closed ■; Contact open □.

Technical drawing of the 1000 Series Plug Mounting Bracket, showing three views: side, front, and top. Dimensions are provided in inches and millimeters.

**Side View Dimensions:**

- Overall height: 45.2 [1.78]
- Distance from top to mounting hole center: 40.0 [1.57]
- Distance from top to bottom flange: 27.1 [1.07]
- Distance from bottom flange to mounting hole center: 6.4 [.25]
- Distance from bottom flange to bottom of bracket: 24.8 [1.97]
- Distance from bottom flange to bottom of mounting hole: 12.0 [.47]
- Distance from bottom flange to bottom of mounting hole (alternative): 31.1 [1.23]

**Front View Dimensions:**

- Overall width: 42.0 [1.65]
- Distance from center to mounting hole center: 22.0 [.87]
- Distance from center to mounting hole center (alternative): 40.0 [1.57]
- Distance from center to mounting hole center (alternative): 20.0 [.79]
- Mounting hole diameter: 70° MIN
- Distance from center to mounting hole center (alternative): 46.6 [1.83]
- Distance from center to mounting hole center (alternative): 60.0 [2.36]
- Distance from center to mounting hole center (alternative): 13.8 [.54]
- Distance from center to mounting hole center (alternative): 52.0 [2.05]
- Distance from center to mounting hole center (alternative): 57.0 [2.24]
- Distance from center to mounting hole center (alternative): 65.0 [2.56]
- Distance from center to mounting hole center (alternative): 2.5 [.10]
- Distance from center to mounting hole center (alternative): 4.0 [.16]

**Top View Dimensions:**

- Overall width: 42.0 [1.65]
- Distance from center to mounting hole center: 22.0 [.87]
- Distance from center to mounting hole center (alternative): 40.0 [1.57]
- Distance from center to mounting hole center (alternative): 20.0 [.79]
- Mounting hole diameter: 70° MIN
- Distance from center to mounting hole center (alternative): 46.6 [1.83]
- Distance from center to mounting hole center (alternative): 60.0 [2.36]
- Distance from center to mounting hole center (alternative): 13.8 [.54]
- Distance from center to mounting hole center (alternative): 52.0 [2.05]
- Distance from center to mounting hole center (alternative): 57.0 [2.24]
- Distance from center to mounting hole center (alternative): 65.0 [2.56]
- Distance from center to mounting hole center (alternative): 2.5 [.10]
- Distance from center to mounting hole center (alternative): 4.0 [.16]

**Notes:**

- 2X CONDUIT (SUPPLIED UNFITTED)
- PLUG

Technical drawing of the 2K Conduit Plug (Supplied Unfitted) showing front and side views with dimensions in inches and millimeters.

**Front View Dimensions:**

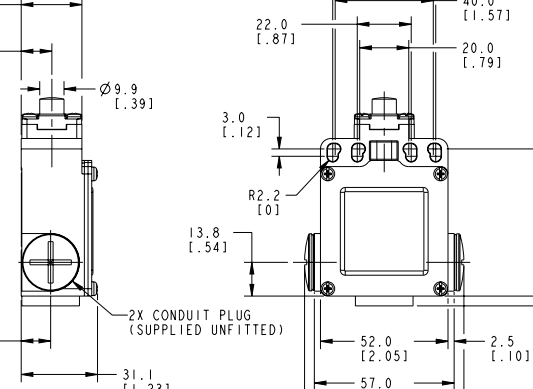
- Top width: 40.5 [1.60]
- Top width (inner): 42.0 [1.65]
- Top width (outer): 40.0 [1.57]
- Top width (inner, lower): 22.0 [0.87]
- Top width (inner, lower): 20.0 [0.79]
- Top width (inner, lower): 20.0-150.0 [0.79-5.90]
- Top width (inner, lower): 15.0 [0.59]
- Top width (inner, lower): 60.0 [2.36]
- Top width (inner, lower): 4.0 [0.16]
- Top width (inner, lower): 2.5 [0.10]
- Top width (inner, lower): 57.0 [2.24]
- Top width (inner, lower): 52.0 [2.05]
- Top width (inner, lower): 65.0 [2.56]
- Top width (inner, lower): 3.0 [0.12]
- Top width (inner, lower): 13.8 [0.54]
- Top width (inner, lower): 31.1 [1.23]
- Top width (inner, lower): 12.0 [0.47]
- Top width (inner, lower): 24.8 [0.97]
- Top width (inner, lower): 34.0 [1.34]
- Top width (inner, lower): 3.2 [0.13]
- Top width (inner, lower): 2K CONDUIT PLUG (SUPPLIED UNFITTED)

**Side View Dimensions:**

- Top width: 40.5 [1.60]
- Top width (inner): 42.0 [1.65]
- Top width (outer): 40.0 [1.57]
- Top width (inner, lower): 22.0 [0.87]
- Top width (inner, lower): 20.0 [0.79]
- Top width (inner, lower): 20.0-150.0 [0.79-5.90]
- Top width (inner, lower): 15.0 [0.59]
- Top width (inner, lower): 60.0 [2.36]
- Top width (inner, lower): 4.0 [0.16]
- Top width (inner, lower): 2.5 [0.10]
- Top width (inner, lower): 57.0 [2.24]
- Top width (inner, lower): 52.0 [2.05]
- Top width (inner, lower): 65.0 [2.56]
- Top width (inner, lower): 3.0 [0.12]
- Top width (inner, lower): 13.8 [0.54]
- Top width (inner, lower): 31.1 [1.23]
- Top width (inner, lower): 12.0 [0.47]
- Top width (inner, lower): 24.8 [0.97]
- Top width (inner, lower): 34.0 [1.34]
- Top width (inner, lower): 3.2 [0.13]
- Top width (inner, lower): 2K CONDUIT PLUG (SUPPLIED UNFITTED)

**Notes:**

- 70° MIN
- 70° MIN
- R2.2 [0]



Technical drawing showing the front and side views of the 1000 Series 1/2" device. The drawing includes dimensions in millimeters (mm) and inches (in) in brackets.

**Front View Dimensions:**

- Top width: 42.0 [1.65]
- Top width (inner): 40.0 [1.57]
- Top width (inner, lower): 20.0 [0.79]
- Top width (inner, lower): 22.0 [0.87]
- Top width (inner, lower): 3.0 [0.12]
- Top width (inner, lower): R2.2 [0]
- Top width (inner, lower): 13.8 [0.54]
- Top width (inner, lower): 52.0 [2.05]
- Top width (inner, lower): 57.0 [2.24]
- Top width (inner, lower): 65.0 [2.56]
- Top width (inner, lower): 2.5 [0.10]
- Top width (inner, lower): 4.0 [0.16]
- Top width (inner, lower): 60.0 [2.36]
- Top width (inner, lower): 31.1 [1.23]
- Top width (inner, lower): 12.0 [0.47]
- Top width (inner, lower): 24.8 [0.97]
- Top width (inner, lower): 12.5 [0.49]
- Top width (inner, lower): Ø 9.9 [0.39]
- Top width (inner, lower): 2X CONDUIT PLUG (SUPPLIED UNFITTED)

**Side View Dimensions:**

- Top width: 42.0 [1.65]
- Top width (inner): 40.0 [1.57]
- Top width (inner, lower): 20.0 [0.79]
- Top width (inner, lower): 22.0 [0.87]
- Top width (inner, lower): 3.0 [0.12]
- Top width (inner, lower): R2.2 [0]
- Top width (inner, lower): 13.8 [0.54]
- Top width (inner, lower): 52.0 [2.05]
- Top width (inner, lower): 57.0 [2.24]
- Top width (inner, lower): 65.0 [2.56]
- Top width (inner, lower): 2.5 [0.10]
- Top width (inner, lower): 4.0 [0.16]
- Top width (inner, lower): 60.0 [2.36]
- Top width (inner, lower): 31.1 [1.23]
- Top width (inner, lower): 12.0 [0.47]
- Top width (inner, lower): 24.8 [0.97]
- Top width (inner, lower): 12.5 [0.49]
- Top width (inner, lower): Ø 9.9 [0.39]
- Top width (inner, lower): 2X CONDUIT PLUG (SUPPLIED UNFITTED)

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

## MICRO SWITCH™ GLE DIMENSIONAL DRAWINGS mm [in]

Figure 29. GLE Top Roller Plunger

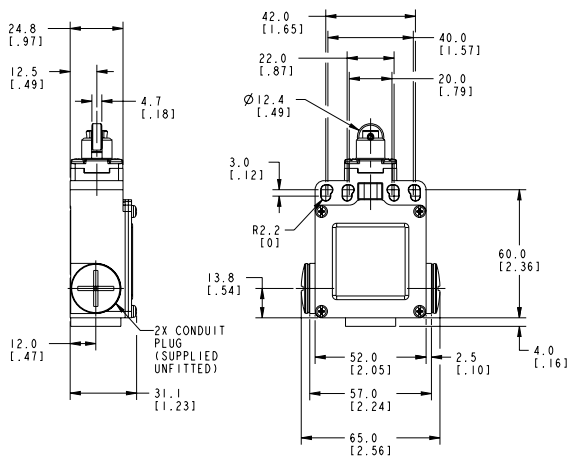


Figure 30. GLE Top Roller Arm

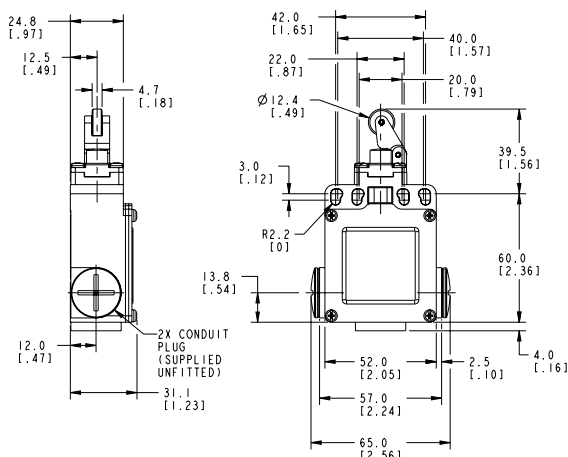


Figure 31. GLE Wobble • E7B

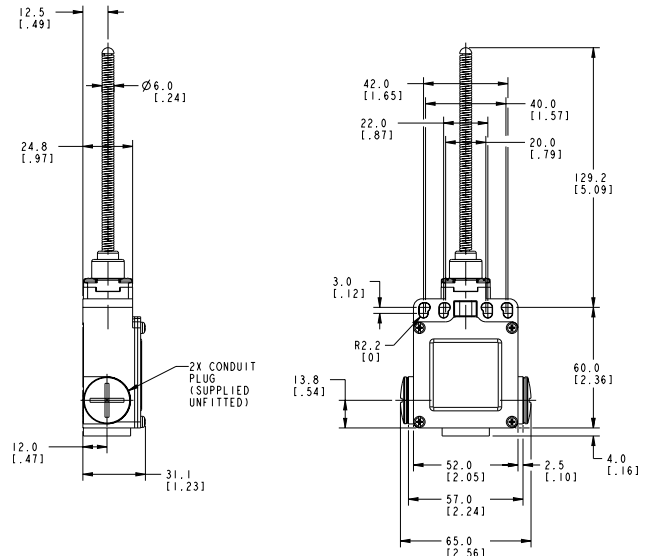


Figure 32. GLE Wobble • K8A

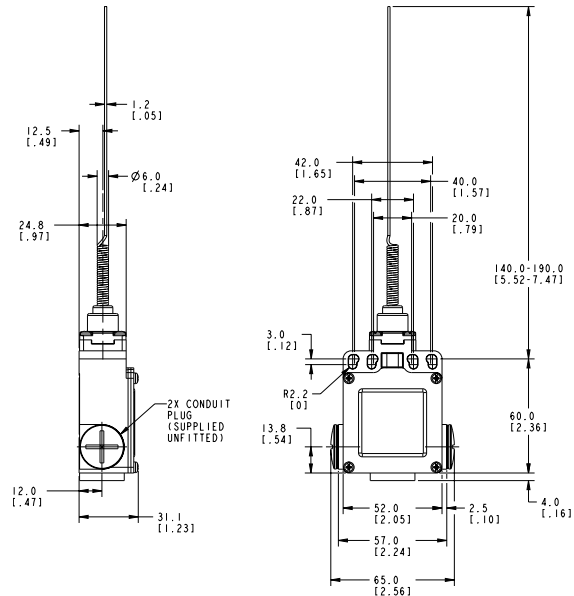
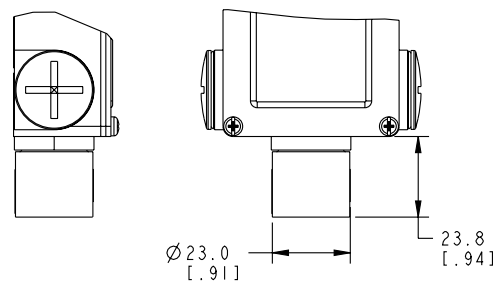


Figure 33. GLE Conduit Adapter for 0.5-14 NPT



# GLS Series

## 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

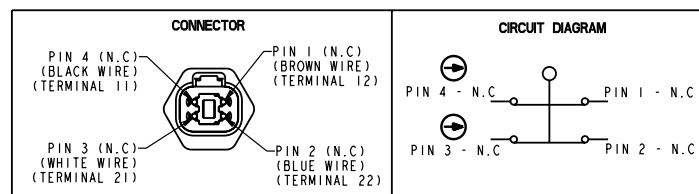
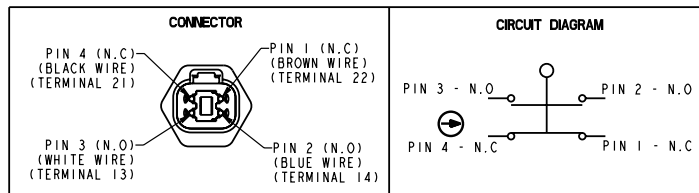
**GLDC01A1A-D1:** Side rotary with plastic roller, 1NC/1NO snap action, with Deutsch DT style 4 pin connector

**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.

## FACTORY PRE-WIRED LIMIT SWITCHES WITH INTEGRAL CONNECTOR



### 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

## 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 |

# MICRO SWITCH™ GLS Global Miniature (EN50047 Style) Limit Switches

This datasheet supports the following MICRO SWITCH™ GLS Series Limit Switches

|             |             |              |             |              |             |           |
|-------------|-------------|--------------|-------------|--------------|-------------|-----------|
| GLCA01A1A   | GLCB01B     | GLCC03A2B    | GLDA06A9A   | GLDB07A2A    | GLEA01A1B   | GLEB07C   |
| GLCA01A1B   | GLCB01C     | GLCC06A1B-D1 | GLDA06C     | GLDB07A2B    | GLEA01A2A   | GLEB07K8A |
| GLCA01A1B-3 | GLCB01D     | GLCC06C      | GLDA06D     | GLDB07B      | GLEA01A2B   | GLEB24A1B |
| GLCA01A2A   | GLCB01E7B   | GLCC06D      | GLDA07A2B   | GLDB07C      | GLEA01A4J   | GLEB24A2B |
| GLCA01A2B   | GLCB01K8A   | GLCC07A1A    | GLDA07A9A   | GLDB33C      | GLEA01A5A   | GLEB24B   |
| GLCA01A4J   | GLCB01K8B   | GLCC07A1B    | GLDA07C     | GLDB33C-6    | GLEA01A5B   | GLEB24C   |
| GLCA01A5B   | GLCB03A1B   | GLCC07A2B    | GLDB01A1-3  | GLDB36A5B    | GLEA01B     | GLEB24C-6 |
| GLCA01A9A   | GLCD03A2A   | GLCD03A1A    | GLDB01A1A   | GLDB36C      | GLEA01C     | GLEB24C-6 |
| GLCA01B     | GLCB03B     | GLCD03B      | GLDB01A1B   | GLDB36C-6    | GLEA01D     | GLEB24E7B |
| GLCA01C     | GLCB03C     | GLDA01A1A    | GLDB01A1B3  | GLDC01A1A    | GLEA01E7B   | GLEB24K8A |
| GLCA01C-6   | GLCB03D     | GLDA01A1A-D  | GLDB01A1Y   | GLDC01A1A-D1 | GLEA06D     | GLEB32A1A |
| GLCA01D     | GLCB04A1B   | GLDA01A1B    | GLDB01A2    | GLDC01A1B    | GLEA24A1B   | GLEB32B   |
| GLCA01E7B   | GLCB04B     | GLDA01A1B-D  | GLDB01A2A   | GLDC01A1B-D1 | GLEA24A1B-C | GLEC01A1B |
| GLCA01K8A   | GLCB04C     | GLDA01A1Y    | GLDB01A2B   | GLDC01A1Y    | GLEA24A2A   | GLEC01A2B |
| GLCA01K8B   | GLCB04D     | GLDA01A2A    | GLDB01A2Y   | GLDC01A2A    | GLEA24A2B   | GLEC01A4J |
| GLCA03A1A   | GLCB06A1B   | GLDA01A2B    | GLDB01A4J   | GLDC01A2B    | GLEA24A4J   | GLEC01A9A |
| GLCA03A1B   | GLCB06A1B-3 | GLDA01A2Y    | GLDB01A5B   | GLDC01A4J    | GLEA24A5B   | GLEC01B   |
| GLCA03B     | GLCB06A1B-4 | GLDA01A4J    | GLDB01B     | GLDC01A5B    | GLEA24B     | GLEC01C   |
| GLCA03C     | GLCB06A2B   | GLDA01A5B    | GLDB01C     | GLDC01A9A    | GLEA24C     | GLEC01D   |
| GLCA03C-6   | GLCB06B     | GLDA01A9A    | GLDB01D     | GLDC01B      | GLEA24C-6   | GLEC03B   |
| GLCA03D     | GLCB06C     | GLDA01B      | GLDB01D-D   | GLDC01C      | GLEA24D     | GLEC24A1B |
| GLCA03E7B   | GLCB07A1B   | GLDA01C      | GLDB01E7B   | GLDC01C-D1   | GLEA24E7B   | GLEC24A2A |
| GLCA03K8B   | GLCB07A1B-3 | GLDA01C-D    | GLDB01K8B   | GLDC01D      | GLEA32A1A   | GLEC24B   |
| GLCA04A1B   | GLCB07A2B   | GLDA01D      | GLDB03A1A   | GLDC01E7B    | GLEB01A1A   | GLEC24C   |
| GLCA04A2B   | GLCB07B     | GLDA01E7B    | GLDB03A1B   | GLDC01K8B    | GLEB01A1B   | GLEC24D   |
| GLCA04B     | GLCB07C     | GLDA01K8B    | GLDB03A1Y   | GLDC03A4J    | GLEB01A2A   | GLEC32B   |
| GLCA05A1A   | GLCB07D     | GLDA03A1A    | GLDB03A1Y-3 | GLDC03C      | GLEB01A2B   | GLEC33B   |
| GLCA06A1B-4 | GLCB07E7B   | GLDA03A1B    | GLDB03A1Y-4 | GLDC03D      | GLEB01A4J   | GLD01D    |
| GLCA06A5B   | GLCB33D     | GLDA03A1Y    | GLDB03A2A   | GLDC04B      | GLEB01A5A   | GLZ301    |
| GLCA06C-6   | GLCB34A1B-5 | GLDA03A2Y    | GLDB03A2Y   | GLDC05A1A    | GLEB01A5B   | GLZ303    |
| GLCA06E7B   | GLCB35A1B-5 | GLDA03A9A    | GLDB03B     | GLDC05A2A    | GLEB01A9A   | GLZ304    |
| GLCA07A1B-3 | GLCB36C     | GLDA03B      | GLDB03C     | GLDC05B      | GLEB01B     | GLZ306    |
| GLCA36A5B   | GLCC01A1A   | GLDA03C      | GLDB03C-6   | GLDC05C      | GLEB01C     | GLZ307    |
| GLCA36D     | GLCC01A1B   | GLDA03C-6    | GLDB03D     | GLDC05D      | GLEB01D     | GLZ332    |
| GLCB01A1A   | GLCC01A2B   | GLDA03D      | GLDB04A1A   | GLDC06A1A    | GLEB01E7B   | GLZ333    |
| GLCB01A1A/4 | GLCC01A4J   | GLDA03E7B    | GLDB04B     | GLDC06A1B    | GLEB01K8A   | GLZ334    |
| GLCB01A1B   | GLCC01A9A   | GLDA03K8B    | GLDB04C     | GLDC06C      | GLEB03A5B   | GLZ336    |
| GLCB01A2A   | GLCC01B     | GLDA04A2B    | GLDB04D     | GLDC06D      | GLEB03B     | GLZ8C-DEU |
| GLCB01A2B   | GLCC01B-D1  | GLDA04A4J    | GLDB06A1B   | GLDC07A1B    | GLEB04A1B   | GLZ8C-PA  |
| GLCB01A4J   | GLCC01C     | GLDA04B      | GLDB06A2A   | GLDC07B      | GLEB06A1A   |           |
| GLCB01A4L   | GLCC01C-D1  | GLDA05A2B    | GLDB06C     | GLDD01A1B    | GLEB07A1B   |           |
| GLCB01A5B   | GLCC01D     | GLDA06A1B    | GLDB07A1A   | GLDD01D      | GLEB07A2B   |           |
| GLCB01A9A   | GLCC01E7B   | GLDA06A2A    | GLDB07A1B   | GLEA01A1A    | GLEB07B     |           |

## ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at [sensing.honeywell.com](http://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

### **WARNING**

#### **IF USED IN APPLICATIONS CONCERNING HUMAN SAFETY**

- Only use NC direct opening (“positive opening”/“positive break”) contacts, identified by the symbol .
- Do NOT use flexible/adjustable actuators. Only use actuators designed for safety applications.
- Do NOT defeat, tamper, remove, or bypass this switch.
- Hazardous voltage, disconnect power before servicing.
- Strictly adhere to all installation and maintenance instructions
- Consult with local safety agencies and their requirements when designing a machine-control link, interface, and all control elements that affect safety.

**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.**

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