

MICRO SWITCH Compact Limit Switches



DESCRIPTION

Honeywell's MICRO SWITCH Compact Limit Switches, NGC Series, are a configurable platform of medium-duty switches that allow the customer to choose SPDT (single pole, double throw) or DPDT (double pole, double throw) circuitry while maintaining the same housing and mounting footprint throughout the NGC Series. MICRO SWITCH NGC Series can be configured more than 380,000 ways, carries global approvals, and are sealed to IP67 for potential use in indoor and outdoor applications.

VALUE TO CUSTOMERS

- **Cost-effective:** Provides a single source for a compact SPDT and DPDT limit switch, which can help minimize the Original Equipment Manufacturer's sourcing expenses by simplifying their supply chain
- **Versatile:** Durable packaging allows for use in many harsh indoor or outdoor applications, providing performance confidence
- **Configurable:** Allows design engineers to standardize on a single footprint while meeting a variety of electrical requirements
- **Application support:** Customers with a global footprint can count on Honeywell for regional support for new applications and troubleshooting

FEATURES

- SPDT or DPDT configurable circuitry
- Snap-action, positive-break contacts
- Silver alloy and gold-plated contact options
- UL, CE, cUL, and CCC approvals
- Conforms to IEC 60947-5-1, IEC 61373, EN45545-2 (metal variants with M12 connectors only)
- NEMA 1, 4, 12, 13; IP67 sealing
- Metal and plastic housing options
- Low and high temperature variants
- Cable and connector terminations
- Variety of heads and actuator levers

POTENTIAL INDUSTRIAL APPLICATIONS

- Boom position detection
- Elevators and escalators
- Machine tools
- Mobile light towers
- Packaging equipment
- Rail doors
- Scissor lifts

DIFFERENTIATION

- With two times the vibration (10 g) and shock (50 g) ratings of comparable competitive devices, the NGC Series can be implemented in the harshest of environmental conditions, providing enhanced reliability and repeatability
- Broader current capacity (10 A) than comparable devices allows for potential use in a wider set of applications, making platform standardization an easier task

PORTFOLIO



The NGC Series joins the 14CE, 914CE, SZL-VL-S, and SL1 Series of miniature limit switches. Honeywell also offers a portfolio of MICRO SWITCH Heavy-Duty Limit Switches and General Purpose Limit Switches.

MICRO SWITCH COMPACT LIMIT SWITCHES, NGC SERIES

Table 1. Specifications

| Characteristic | Parameter |
|-------------------------------|--|
| Description | compact, medium-duty limit switches |
| Actuators | Side Rotary Configurations <ul style="list-style-type: none"> • Side rotary • Side rotary (short) • Side rotary with adjustable length roller lever • Reversed side rotary (short) • Reversed side rotary with adjustable length roller lever Plunger Configurations <ul style="list-style-type: none"> • Pin plunger (standard 4,8 mm [0.19 in] and long 7,4 mm [0.29 in]) • Roller plunger (standard 15,3 mm [0.60 in] and long 17,85 mm [0.70 in]) • Cross roller plunger (standard 15,3 mm [0.60 in] and long 17,85 mm [0.70 in]) • Pin plunger with boot seal • Panel-mount pin plunger • Panel-mount roller plunger • Panel-mount cross roller plunger • Panel-mount pin plunger with boot seal • Top roller lever arm |
| Terminations (SPDT) | Normal cable (refer to table 4) PUR cable (refer to table 4) Special application cable (refer to table 4) Railway cable (refer to table 4) Connector, 4-pin male, M12 thread Connector, 5-pin male, M12 thread |
| Terminations (DPDT) | Normal cable (refer to table 4) PUR cable (refer to table 4) Special application cable (refer to table 4) Railway cable (refer to table 4) |
| Material approval standard | (only applicable for product with non-halogen cable) DIN5510-2-2009 (flammability rating: S3; smoke rating: > SRI; welt rating: ST2; toxic gas rating: FED(TZUL=15min)< 1) |
| Switching options | SPDT, DPDT; snap action contacts (1NC/1NO, 2NC/2NO) |
| Sealing | NEMA 1, 4, 12, 13; IP67 per IEC 60529 suitable for outdoor applications |
| Contacts | snap action, positive break standard: silver alloy; gold: gold-plated |
| Operating temperature | -25°C to 75°C [-13°F to 167°F] (for extended operating temperature options, see table 3) |
| Storage temperature | -40°C to 85°C [-40°F to 185°F] |
| Mechanical endurance | 1NC/1NO: 5,000,000 cycles min. at 120 CPM 2NC/2NO: 5,000,000 cycles min. at 60 CPM – for AgNi contacts only For wedge actuation: 500,000 cycles min. at 60 CPM for both 1NC/1NO and 2NC/2NO Applicable only for Head type C, L, P, Q, S, and T |
| Electrical life | see table 3 |
| Contact bounce limit | 50 msec max., use proper signal filter accordingly |
| Thermal current | 1NC/1NO: 10 A; 2NC/2NO: 5 A |
| Rated insulation voltage (Ui) | 1NC/1NO: 400 V as per IEC 60947-5-1 2NC/2NO: 250 V as per IEC 60947-5-1 |
| Dielectric strength | 1890 Vac for metal housing; 2890 Vac for plastic housing 1500 Vac between all terminals to enclosure after durability test |
| Impulse voltage | 1NC/1NO: 2500 Vdc as per IEC 60947-5-1 2NC/2NO: 1500 Vac as per IEC 60947-5-1 |
| Pollution degree | 3 (III) |
| Humidity | 95 %RH max. |
| Operating speed | 0,3 mm/s to 2 m/s |
| Switching frequency | 1NC/1NO: 120 CPM max. 2NC/2NO: 60 CPM max. |
| Shock | 50 g for 11 µs as per IEC 60068-2-27; railway application, per IEC 61373 Class I Car B type |
| Vibration | 10 g as per IEC 60068-2-6, frequency range 10 Hz to 500 Hz; railway application per IEC 61373 Class I Car B type |
| Approvals | UL (UL508), cUL, CE (IEC 60947-5-1), CCC (GB14048.5-2008) |
| Conforming to standards | IEC 60947-5-1, IEC 61373, EN45545-2 HL 3 (metal variants with M12 connectors only) |

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Table 2. Electrical Rating and Utilization Category

| SPDT 1NO/1NC | | | | DPDT 2NO/2NC | | | | SPDT and DPDT |
|------------------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------------------|
| ac | | dc | | ac | | dc | | gold-plated contacts |
| A300 Ue (volts) | AC15 Ie (amps) | Q300 Ue (volts) | DC13 Ie (amps) | C300 Ue (volts) | AC15 Ie (amps) | R300 Ue (volts | DC13 Ie (amps) | 30 mVdc 10 mA resistive |
| 120 | 6 | 125 | 0.55 | 240 | 0.75 | 250 | 0.1 | |
| 240 | 3 | 250 | 0.27 | | | | | |
| Per IEC 60947-5-1 and UL 508 | | | | | | | | |

Table 3. Electrical Life Expectancy at Illustrated Load

| Switch Type | Voltage | Current | Life |
|--|---------|---------|-----------|
| SPDT (01) silver contact ¹ | 110 Vdc | 1A | 500,000 |
| DPDT (24) silver contact ¹ | 110 Vdc | 1 A | 500,000 |
| DPDT (24) silver contact ² | 24 Vdc | 15 mA | 1,500,000 |
| DPDT (32) gold-plated contact ² | 30 mVdc | 10 mA | 50,000 |
| SPDT (07) gold-plated contact ² | 30 mVdc | 10 mA | 50,000 |

¹ 15 cycles/minute max. Applicable to NC circuit only. All loads resistive. Life mentioned are min. life.

² 30 cycles/minute max. All loads resistive. Life mentioned are min. life.

Figure 1. Product Nomenclature and Order Guide

| NGC | M | A | 02 | A | X | 01 | A | 1A | |
|---|---|------------------------------|---|--|------------------------------|---|---|--|--|
| Switch Type | Housing | Connection | Cable Length | Connector/Cable Exiting Housing | Connector at End of Cable | Switch Type | Head Type | Levers – Optional (Side Rotary Head Only) | Modifications |
| NGC Series Medium-Duty Compact Limit Switch | M Metal | A Side exit, right | 00 No cable. Internal connector ⁶ | A Standard cable | X None | 01 1NC/1NO snap action silver contacts | A Side rotary | None | M01 Side rotary lever, 90° right |
| | P Plastic | B Bottom exit | 02 0.25 m [0.82 ft] | B Halogen-free cable | | 07 1NC/1NO snap action gold contacts | B Pin plunger | 1A Standard fixed length, w/nylon roller (18 mm) | M02 Side rotary lever, 90° left |
| | Q Plastic with mounting ring support | C Side exit, left | 05 0.5 m [1.64 ft] | D PUR cable | | 24 2NC/2NO snap action silver contacts | C Roller plunger | 1B Standard fixed length, w/ stainless steel roller (18 mm) | M07 Side rotary short lever, 45° right |
| | | | 07 0.7 m [2.3 ft] | N M12 4-pin micro change, dc connector ^{2,3,5} | | 32 2NC/2NO snap action gold contacts | D Long pin plunger | 2A Adjustable length, w/nylon roller (18 mm) | M08 Side rotary short lever, 45° left |
| | | | 10 1.0 m [3.28 ft] | P M12 5-pin micro change, dc connector ^{1,3,5} | | | J Top roller lever arm | 2B Adjustable length, w/stainless steel roller (18 mm) | H85 High temp variant, 85 °C ⁷ |
| | | | 15 1.5 m [4.92 ft] | R Railway cable ⁴ | | | L Cross roller plunger | 2C Adjustable length, w/nylon roller (18 mm), reversed | L40 Low temp variant, -40 °C ⁸ |
| | | | 20 2.0 m [6.56 ft] | | | | M Pin plunger w/ boot seal | 2D Adjustable length, w/stainless steel roller (18 mm), reversed | |
| | | | 30 3.0 m [9.84 ft] | | | | N Panel-mount pin plunger | 6A Short fixed length, w/nylon roller (18 mm) | |
| | | | 40 4.0 m [13.12 ft] | | | | P Panel-mount roller plunger | 6B Short fixed length, w/stainless steel roller (18 mm) | |
| | | | 50 5.0 m [16.4 ft] | | | | Q Panel-mount cross-roller plunger | 6C Short fixed length, w/nylon roller (18 mm), reversed | |
| | | | | | | | R Panel-mount pin plunger w/ boot seal | 6D Short fixed length, w/stainless steel roller (18 mm), reversed | |
| | | | | | | | S Long roller plunger | | |
| | | | | | | | T Long cross-roller plunger | | |

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

¹ Only applicable for metal housing Type "M"
² Typically applicable for plastic housing Type "P" and "Q", and without grounding metal housing Type "M"
³ Only applicable for switch type "01" and "07"
⁴ Cable meets EN 50306, but does not meet with UL requirement
⁵ Only applicable for "00" cable length. Not applicable to switch types "24" and "32"
⁶ "00" cable length is not applicable for connector/cable exit type "A", "B", "D", and "R".
 Not applicable to switch types "24" and "32"
⁷ DIN 5510-2-2009 does not apply to NGC variant with suffix modification code "H85". Also applicable only for connector/cable types "B", "R", "N", and "P". See table 3
⁸ Modification code "L40" is a -40 °C variant. Only applicable to connector/cable types "B" and "R". Connector types "N" and "P" are rated to -40°C as default.
 Some legacy listings with "P" and "N" connector types may have the L40 designation and these are rated to -40°C to +75°C. See table 4

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Table 4. Connector/Cable Type Temperature Options^{7,8}

| Connector/Cable type | Standard NGC Series (with modification code, none) | | High Temp NGC Series (with modification code, H85) | | Low Temp NGC Series (with modification code, L40) | |
|----------------------|---|------|---|------|--|------|
| | Tmin | Tmax | Tmin | Tmax | Tmin | Tmax |
| A | -25°C | 75°C | – | – | – | – |
| B | -25°C | 75°C | -25°C | 85°C | -40°C | 75°C |
| D | -25°C | 75°C | – | – | – | – |
| R | -25°C | 75°C | -25°C | 85°C | -40°C | 75°C |
| N | -40°C | 75°C | -25°C | 85°C | – | – |
| P | -40°C | 75°C | -25°C | 85°C | – | – |

Figure 2. Connector Dimensions and Pin-Out Identification

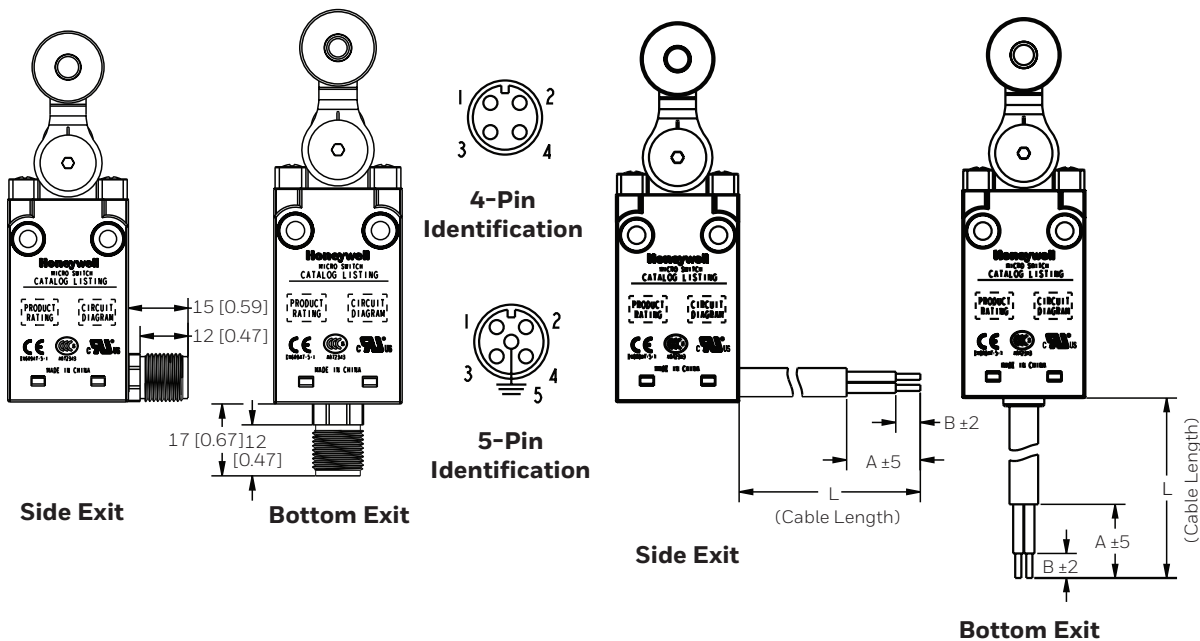


Table 5. Cable Descriptions

| Listing | Cable Description | | | | | | |
|---------|-------------------------------|----------------------------|-----------------------------------|---|---|---|---|
| | Length (L) min. | Jacket strip length (A) | Insulation strip length (B) | NGCP*01* NGCP*07* (01 or 07 switch type) | NGCM*01* NGCM*07* (01 or 07 switch type) | NGCP*24* NGCP*32* (24 or 32 switch type) | NGCM*24* NGCM*32* (24 or 32 switch type) |
| NGC*00* | no cable (internal connector) | | | | | | |
| NGC*02* | 0,25 m [9.8 in] | 23 mm [0.91 in] | 5 mm [0.20 in] | 18 AWG or 4 x 0,75 mm ² | 18 AWG or 5 x 0,75 mm ² | 20 AWG or 8 x 0,5 mm ² | 20 AWG or 9 x 0,5 mm ² |
| NGC*05* | 0,5 m [19,7] | 32 mm [1.26] | 17 mm [0.67 in] | | | | |
| NGC*07* | 0,7 m [27.6 in] | 32 mm [1.26] | 17 mm [0.67 in] | | | | |
| NGC*10* | 1 m [39.37 in] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |
| NGC*15* | 1,5 m [59 in] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |
| NGC*20* | 2 m [78.74 in] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |
| NGC*30* | 3 m [9.84 ft] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |
| NGC*40* | 4 m [13.12 ft] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |
| NGC*50* | 5 m [16.4 ft] | 23 mm [0.91 in] | 5 mm [0.20 in] | | | | |

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Figure 3. Side Rotary A1A/A1B Dimensions

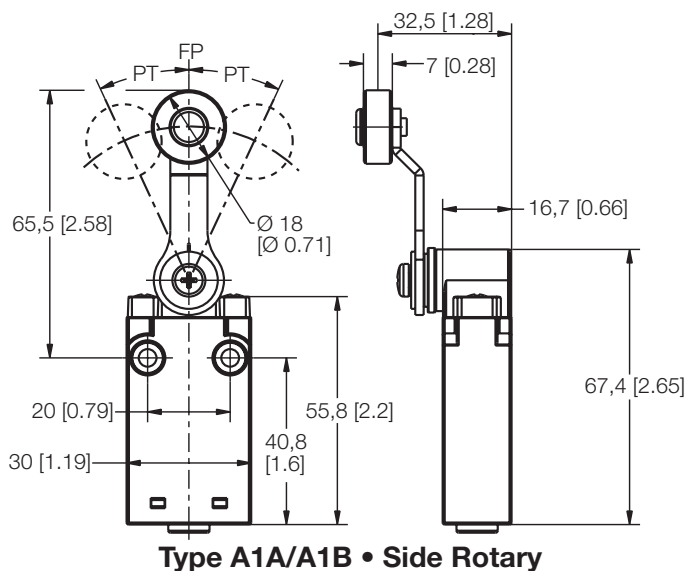


Figure 4. Side Rotary A6A/A6B Dimensions

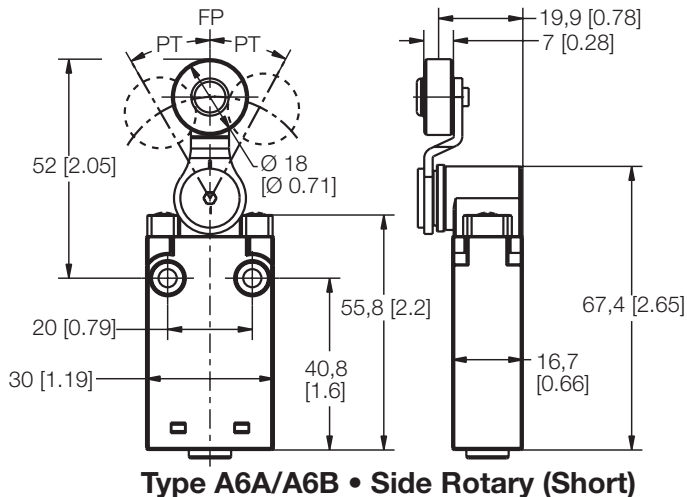


Figure 5. Side Rotary A2A/A2B Dimensions

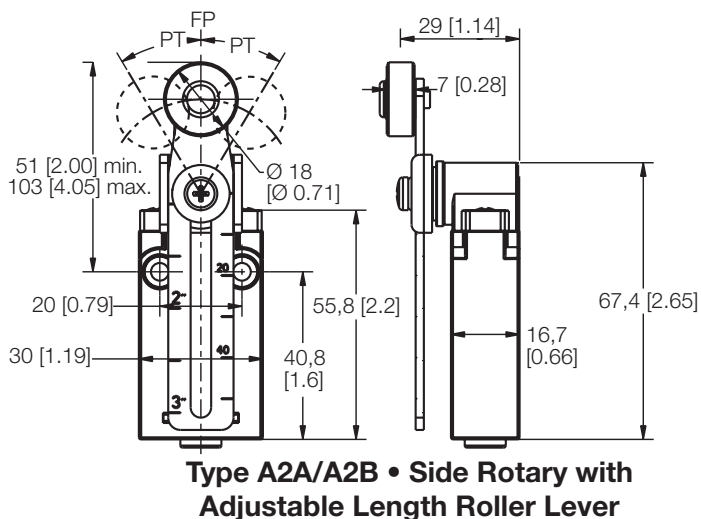


Figure 6. Side Rotary A6C/A6D Dimensions

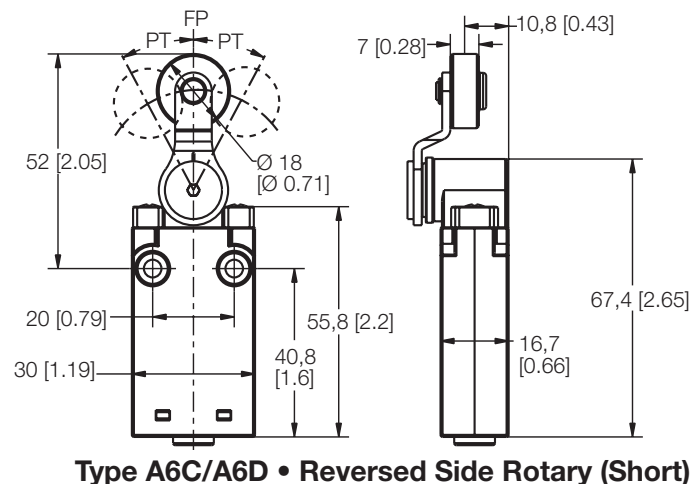
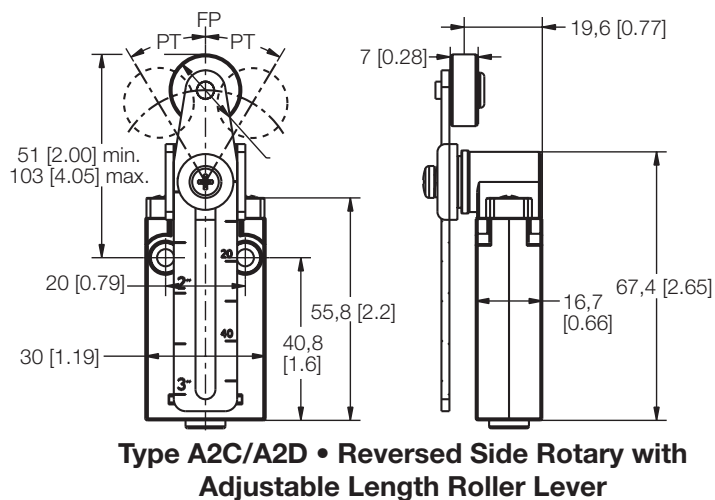


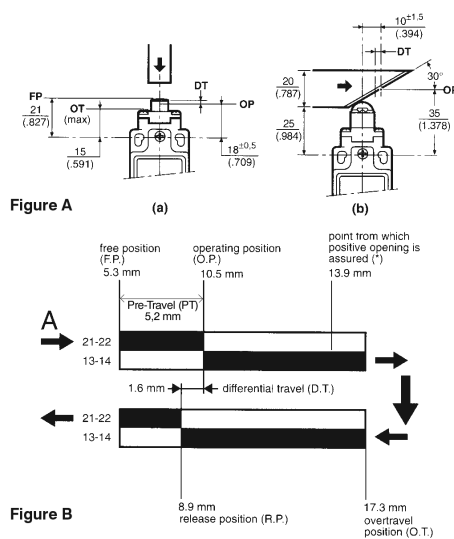
Figure 7. Side Rotary A2C/A2D Dimensions



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Table 5. Side Rotary Operating Characteristics

| Actuation | Catalog Listing | Connector/ Cable Exit | Switch Type | Circuit Diagram | Bar Charts | Differential Travel max. | Operating Force/ Torque max. | Release Force/ Torque max. | | | |
|-------------|-----------------|--------------------------|-------------|-----------------|------------|--------------------------|---------------------------------|-------------------------------|--|--|--|
| Side Rotary | NGCP****X01A** | A | 01 | | | 15° | 18 Ncm [1.59 in-lb] | 2,5 Ncm [0.22 in-lb] | | | |
| | NGCP****X01A** | B | | | | | | | | | |
| | NGCP****X01A** | D | | | | | | | | | |
| | NGCP****X07A** | A | 07 | | | | | | | | |
| | NGCP****X07A** | B | | | | | | | | | |
| | NGCP****X07A** | D | | | | | | | | | |
| | NGCP****X01A** | N | 01 | | | | | | | | |
| | NGCP****X07A** | N | 07 | | | | | | | | |
| | NGCM****X01A** | A | 01 | | | 15° | 18 Ncm [1.59 in-lb] | 2,5 Ncm [0.22 in-lb] | | | |
| | NGCM****X01A** | B | | | | | | | | | |
| | NGCM****X01A** | D | | | | | | | | | |
| | NGCM****X07A** | A | 07 | | | | | | | | |
| | NGCM****X07A** | B | | | | | | | | | |
| | NGCM****X07A** | D | | | | | | | | | |
| | NGCM****X01A** | P | 01 | | | | | | | | |
| | NGCM****X07A** | P | 07 | | | | | | | | |
| | NGCP****X24A** | A | 24 | | | 16.5° | 17 Ncm [1.5 in-lb] | 2,1 Ncm [0.19 in-lb] | | | |
| | NGCP****X24A** | B | | | | | | | | | |
| | NGCP****X24A** | D | | | | | | | | | |
| | NGCP****X32A** | A | 32 | | | | | | | | |
| | NGCP****X32A** | B | | | | | | | | | |
| | NGCP****X32A** | D | | | | | | | | | |
| | NGCM****X24A** | A | 24 | | | | | | | | |
| | NGCM****X24A** | B | | | | | | | | | |
| | NGCM****X24A** | D | | | | | | | | | |
| | NGCM****X32A** | A | 32 | | | | | | | | |
| | NGCM****X32A** | B | | | | | | | | | |
| | NGCM****X32A** | D | | | | | | | | | |



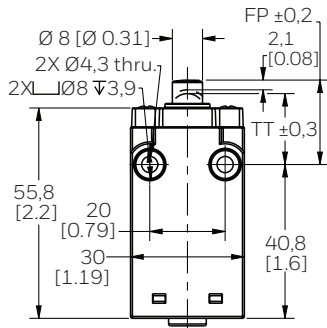
How to read and understand the bar chart information

The following example relates to a unit which has a snap action basic and which has a roller pin plunger actuator. Follow the black arrows and the black strip on the chart. The black strip indicates that there is a circuit between the terminals whose numbers are shown on the left and when white there is no circuit.

Look at Figures A and B as examples. Actuator type used for test is the linear Cam travel type (b) shown left. The start point is at the arrow marked "A" (See fig. B). This shows the free position to be 5.3 mm from the vertical center line of the unit. At this stage there is a circuit between the terminals 21-22 but no circuit between terminals 13-14. The unit can be actuated until it reaches the operating position which is 10,5 mm from the center line – a travel distance of 10,5 – 5,3 = 5,2 mm from the free position. At this point the circuit arrangement changes – no circuit between 21-22 but making a circuit between 13-14. If, however, the contacts of terminals 21-22 weld together and will not separate, a mechanical safety feature will take effect if the switch is travelled past the point from which positive opening is assured, 13,9 mm. As the switch returns it reaches the release position at 8,9 mm from the center line. The circuit will change back to the original state and the difference between the operating position and the release position gives what is known as the differential travel i.e. 10,5 – 8,9 = 1,6 mm. The asterisk (*) indicates the point from which the positive opening is assured.

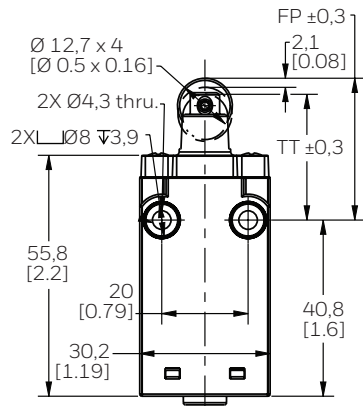
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Figure 8. Pin Plunger B & D Dimensions



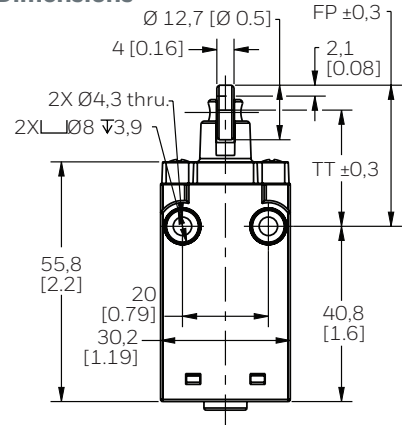
NGC_B | FP 19,8 mm; TT 15,9 mm
NGC_D | FP 22,4 mm; TT 18,5 mm
Pin Plunger

Figure 9. Roller Plunger C & S Dimensions



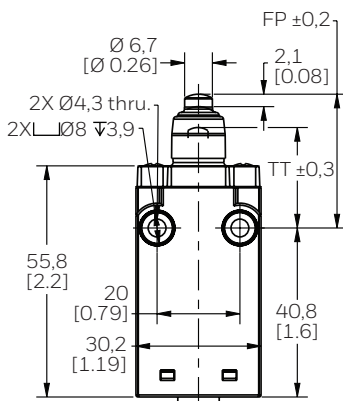
NGC_C | FP 30,3 mm; TT 26,4 mm
NGC_S | FP 32,85 mm; TT 28,95 mm
Roller Plunger

Figure 10. Cross Roller Plunger L & T Dimensions



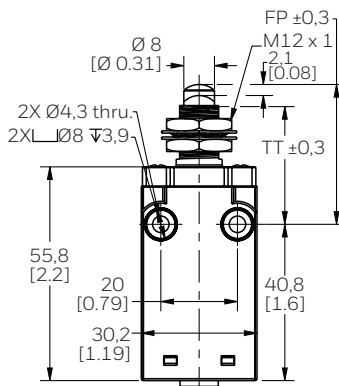
NGC_L | FP 30,3 mm; TT 26,4 mm
NGC_T | FP 32,85 mm; TT 28,95 mm
Cross Roller Plunger

Figure 11. Pin Plunger with Boot Seal M Dimensions



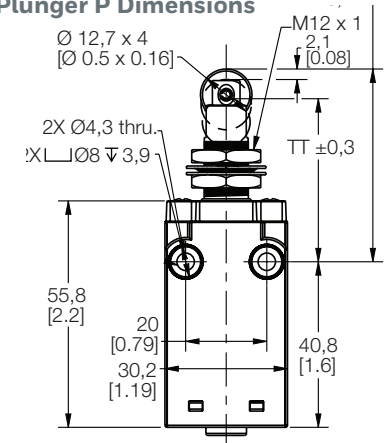
NGC_M | FP 32,3 mm; TT 28,4 mm
Pin Plunger with Boot Seal

Figure 12. Panel-Mount Pin Plunger N Dimensions



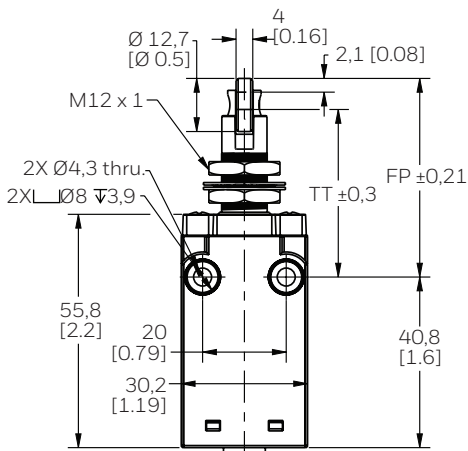
NGC_N | FP 36,5 mm; TT 32,6 mm
Panel Mount Pin Plunger

Figure 13. Panel-Mount Roller Plunger P Dimensions



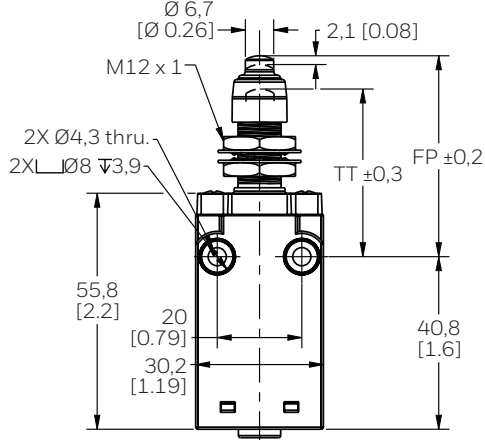
NGC_P | FP 47,5 mm; TT 43,6 mm
Panel-Mount Roller Plunger

Figure 14. Panel-Mount Cross Roller Plunger Q Dimensions



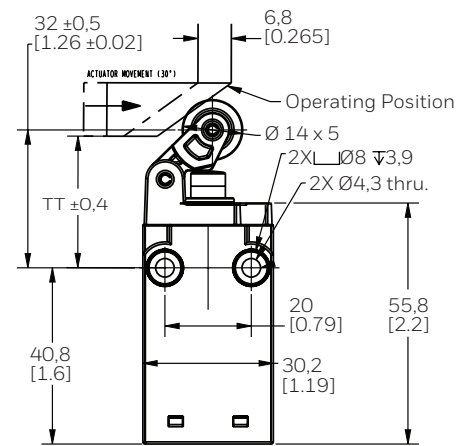
NGC_Q | FP 47,5 mm; TT 43,6 mm
Panel-Mount Cross Roller Plunger

Figure 15. Panel-Mount Pin Plunger With Boot Seal R Dimensions



NGC_R | FP 47,5 mm; TT 43,6 mm
Panel-Mount Pin Plunger with Boot Seal

Figure 16. Top Roller Lever Arm J Dimensions



NGC_J | TT 33,3 mm
Top Roller Lever Arm

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Figure 17. Wedge Actuation

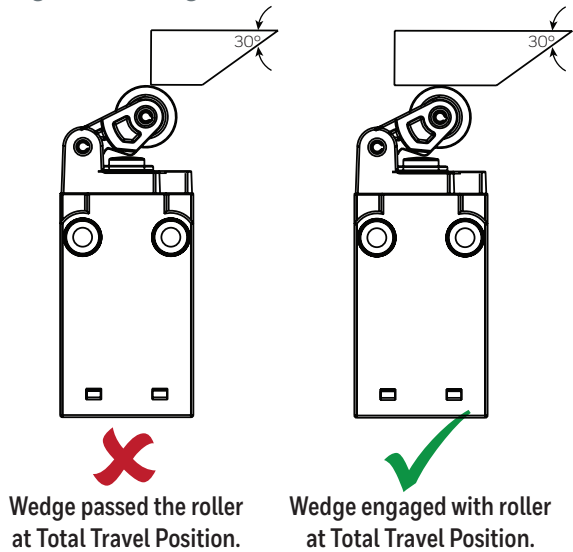
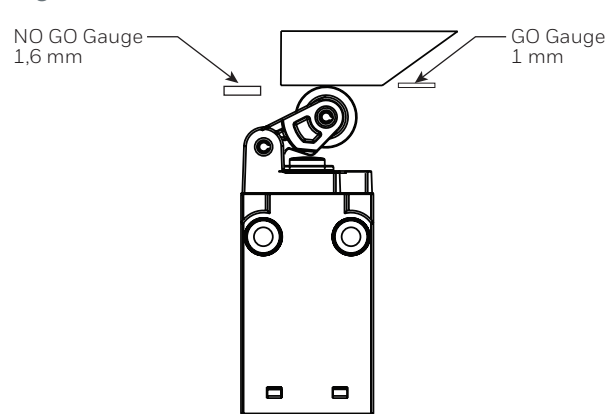


Figure 18. Final Installation Check at TTP



NOTE: Strictly adhere to installation instruction mentioned in Figures 1 to 18. Failure to comply with these could result in a functional issue.

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Table 6. Plunger Operating Characteristics

| Actuation | Catalog Listing | Connector/ Cable Exit | Switch Type | Circuit Diagram | Bar Charts | Differential Travel max. | Operating Force/ Torque max. | Re- lease Force/ Torque max. |
|------------------------------------|------------------------------------|--------------------------|-------------|---|---|--------------------------------|---------------------------------------|--|
| Plunger Head | NGCP*****X01 B/C/D/L/M/N/P/Q/R/S/T | A | 01 | | <p>DT</p> <p>■ Contact Closed □ Contact Open • Positive Opening</p> | 1,2 mm [0.047 in] | 11 N [2.47 lb] | 3 N [0.67 lb] |
| | NGCP*****X01 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | |
| | NGCP*****X01 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | |
| | NGCP*****X07 B/C/D/L/M/N/P/Q/R/S/T | A | 07 | | | | | |
| | NGCP*****X07 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | |
| | NGCP*****X07 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | |
| | NGCP*****X01 B/C/D/L/M/N/P/Q/R/S/T | N | 01 | | | | | |
| | NGCP*****X07 B/C/D/L/M/N/P/Q/R/S/T | N | 07 | | | | | |
| | NGCM*****X01 B/C/D/L/M/N/P/Q/R/S/T | A | 01 | | | | | |
| | NGCM*****X01 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | |
| | NGCM*****X01 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | |
| | NGCM*****X07 B/C/D/L/M/N/P/Q/R/S/T | A | 07 | | | | | |
| | NGCM*****X07 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | |
| | NGCM*****X07 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | |
| | NGCM*****X01 B/C/D/L/M/N/P/Q/R/S/T | P | 01 | | | | | |
| | NGCP*****X07 B/C/D/L/M/N/P/Q/R/S/T | P | 07 | | | | | |
| NGCP*****X24 B/C/D/L/M/N/P/Q/R/S/T | A | 24 | | <p>DT</p> <p>■ Contact Closed □ Contact Open • Positive Opening</p> | 1,4 mm [0.051 lb] | 9,5 N [2.14 lb] | 2,2 N [0.49 lb] | |
| NGCP*****X24 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | | |
| NGCP*****X24 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | | |
| NGCP*****X32 B/C/D/L/M/N/P/Q/R/S/T | A | 32 | | | | | | |
| NGCP*****X32 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | | |
| NGCP*****X32 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | | |
| NGCM*****X24 B/C/D/L/M/N/P/Q/R/S/T | A | 24 | | | | | | |
| NGCM*****X24 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | | |
| NGCM*****X24 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | | |
| NGCM*****X32 B/C/D/L/M/N/P/Q/R/S/T | A | 32 | | | | | | |
| NGCM*****X32 B/C/D/L/M/N/P/Q/R/S/T | B | | | | | | | |
| NGCM*****X32 B/C/D/L/M/N/P/Q/R/S/T | D | | | | | | | |

MICRO SWITCH COMPACT LIMIT SWITCHES, NGC SERIES

Table 7. Top Roller Arm Operating Characteristics, Head Type J

| Actuation | Catalog Listing | Connector/ Cable Exit | Switch Type | Circuit Diagram | Bar Charts | Differential Travel max. | Operating Force/ Torque max. | Release Force/ Torque max. | | | | | | | | | | | | | |
|----------------|-----------------|--------------------------|-------------|-----------------|---|--------------------------|---------------------------------|-------------------------------|---|--------------------|--------------------|--------------------|---|----------------------|--------------------|--------------------|--|--|--|--|--|
| Top Roller Arm | NGCP*****X01 J | A | 01 | | <p>DT</p> <p>■ Contact Closed □ Contact Open • Positive Opening</p> | 4 mm [0.157 in] | 5,5 N [1.24 lb] | 1,2 N [0.27 lb] | | | | | | | | | | | | | |
| | NGCP*****X01 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X01 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X07 J | A | 07 | | | | | | | | | | | | | | | | | | |
| | NGCP*****X07 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X07 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X01 J | N | 01 | | | | | | | | | | | | | | | | | | |
| | NGCP*****X07 J | N | 07 | | | | | | | | | | | | | | | | | | |
| | NGCM*****X01 J | A | 01 | | | | | | <p>DT</p> <p>■ Contact Closed □ Contact Open • Positive Opening</p> | 4 mm [0.157 in] | 5,5 N [1.24 lb] | 1,2 N [0.27 lb] | | | | | | | | | |
| | NGCM*****X01 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X01 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X07 J | A | 07 | | | | | | | | | | | | | | | | | | |
| | NGCM*****X07 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X07 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X01 J | P | 01 | | | | | | | | | | | | | | | | | | |
| | NGCP*****X07 J | P | 07 | | | | | | | | | | | | | | | | | | |
| | NGCP*****X24 J | A | 24 | | | | | | | | | | <p>DT</p> <p>■ Contact Closed □ Contact Open • Positive Opening</p> | 4,3 mm [0.169 in] | 4,5 N [1.01 lb] | 1,2 N [0.27 lb] | | | | | |
| | NGCP*****X24 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X24 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X32 J | A | 32 | | | | | | | | | | | | | | | | | | |
| | NGCP*****X32 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCP*****X32 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X24 J | A | 24 | | | | | | | | | | | | | | | | | | |
| | NGCM*****X24 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X24 J | D | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X32 J | A | 32 | | | | | | | | | | | | | | | | | | |
| | NGCM*****X32 J | B | | | | | | | | | | | | | | | | | | | |
| | NGCM*****X32 J | D | | | | | | | | | | | | | | | | | | | |

ADDITIONAL MATERIALS

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

- Product line guide
- Product part listing/nomenclature tree
- Product range guide
- Application note

FOR MORE INFORMATION

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

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

WARNING IMPROPER INSTALLATION

- Consult with local safety agencies and their requirements when designing a machine-control link, interface and all control elements that affect safety.
- Strictly adhere to all installation instructions.

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

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.