

MICRO SWITCH Compact Limit Switches



DESCRIPTION

Honeywell MICRO SWITCH Compact Limit Switches, NGC Series, are a configurable platform of mediumduty 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.

FEATURES

- SPDT or DPDT configurable circuitry
- Snap-action, positive-break contacts
- Silver alloy and gold-plated contact options
- UL, CE, UKCA, cUL, and CCC approvals
- Conforms to IEC 60947-5-1, IEC 61373, EN 45545-2
- 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

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

INDUSTRIAL APPLICATIONS

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

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

NOTE:

NGC Series Switches can carry the **EN45545-2 certification** with the following construction details (see Figure 1 for product nomenclature):

- Housing type: metal or plastic
- Connection direction: right-side, bottom, or left-side
- Cable length: any length, including no cable when paired with an internal connector
- Connector type: only N, P, or R permitted
 - Connector types N and P can only be paired with 1NC/1 NO with either silver contacts or gold contacts
 - Connector type R allows for all switching types

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.



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TABLE 1. SPECIFICATIONS									
Characteristic	Parameter								
Description	compact, medium-duty limit switches								
Actuators	 Side Rotary Configurations 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 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 – fo For wedge actuation: 500,000 cycles min. at 60 C Applicable only for Head type C, L, P, Q, S, and T	CPM for both 1NC/1NO and 2NC/2NO							
Electrical life	see table 3								
Contact bounce limit	50 msec max., use proper signal filter accordingly	y							
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 1500 Vac between all terminals to enclsoure afte								
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 ms as per IEC 60068-2-27; railway ap								
Vibration	10 g as per IEC 60068-2-6, frequency range 10 Frailway application per IEC 61373 Class I Car B ty	/ре							
Approvals	UL (UL508), cUL, CE, UKCA (IEC 60947-5-1), CC	C (GB14048.5-2008)							
Conforming to standards	IEC 60947-5-1, IEC 61373, EN45545-2 HL 3								

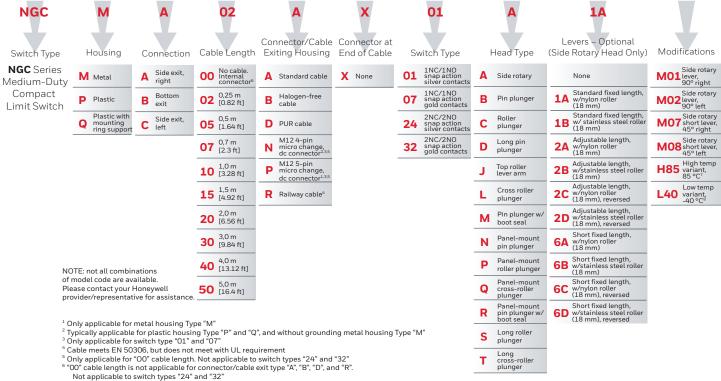
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TABLE 2. ELECTRICAL RATING AND UTILIZATION CATEGORY											
SPDT 1NO/	1NC			DPDT 2NO/	2NC		SPDT and DPDT				
ac	dc ac dc							gold-plated contacts			
A300 Ue (volts)	AC15 le (amps)	Q300 Ue (volts)	DC13 le (amps)	C300 Ue (volts)	AC15 le (amps)	R300 Ue (volts	DC13 le (amps)				
120	6	125	0.55	240	0.75	250	0.1	30 mVdc			
240	3	250	0.27					10 mA resistive			
Per IEC 6094	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.

Figure 1. Product Nomenclature and Order Guide



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 dodification 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 $+75^{\circ}$ C. See table 4

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

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TABLE 4. CONNECTOR/CABLE TYPE TEMPERATURE OPTIONS ^{7,8}									
Connector/Cable type			High Temp NGC S (with modificatio		Low Temp NGC Series (with modification code, L40)				
	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax			
A	-25°C	75°C	-	-	-	-			
В	-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

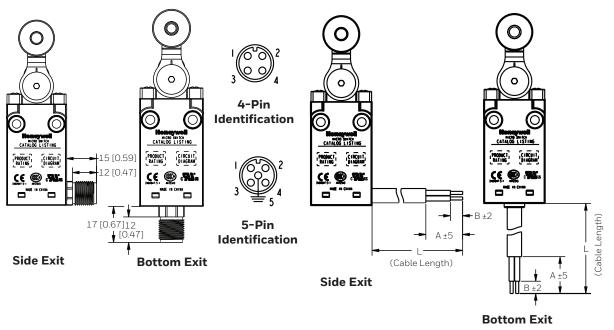


TABLE 5. CABLE DESCRIPTIONS										
	Cable Description									
Listing	Length (L) min.	Jacket strip length (A)	Insulation strip length (B)	NGCP*01* NGCP*07* (01 or 07 switch type)	NGCM*01* NGCM*07* (01 or 07 switch type)	NGCP*24* NGCP*32* (24 or 32 switch type)	NGCM*24* NGCM*32* (24 or 32 switch type)			
NGC*00*	no cable (interna	l connector)								
NGC*02*	0,25 m [9.8 in]	23 mm [0.91 in]	5 mm [0.20 in]							
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]	4.0.444.0	40 000	00.4440	00.4440			
NGC*15*	1,5 m [59 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*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

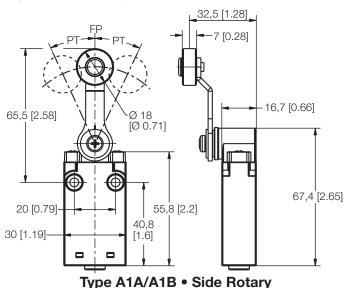


Figure 4. Side Rotary A6A/A6B Dimensions

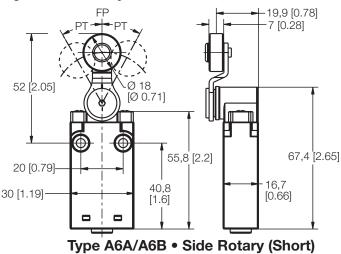
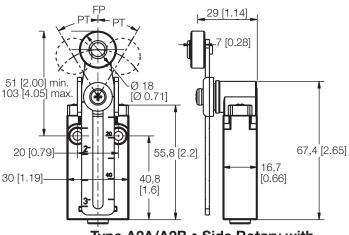
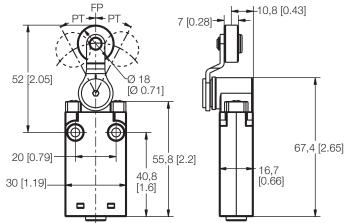


Figure 5. Side Rotary A2A/A2B Dimensions



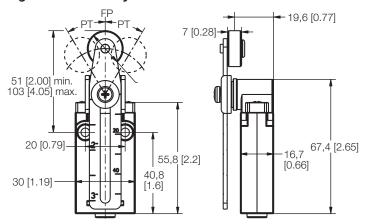
Type A2A/A2B • Side Rotary with Adjustable Length Roller Lever

Figure 6. Side Rotary A6C/A6D Dimensions



Type A6C/A6D • Reversed Side Rotary (Short)

Figure 7. Side Rotary A2C/A2D Dimensions

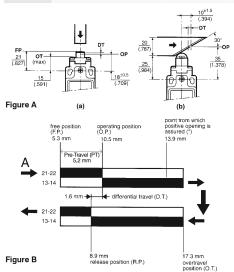


Type A2C/A2D • Reversed Side Rotary with Adjustable Length Roller Lever

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TABLE 6. SIDE ROTARY OPERATING CHARACTERISTICS												
Actua- tion	Catalog Listing	Connec- tor/ Cable Exit	Switch Type	Circuit Diagram	Bar Charts	Differen- tial Travel max.	Operating Force/ Torque max.	Release Force/ Torque max.				
	NGCP****X01A**	А										
	NGCP****X01A**	В	01	Blue Brown								
	NGCP****X01A**	D		$ \begin{array}{c c} 13 - & 14 \\ 21 - & 22 \end{array} $								
	NGCP****X07A**	А		Black/ Zb Black White								
	NGCP****X07A**	В	07									
	NGCP****X07A**	D			0° 25° 45° 65° 21-22							
	NGCP****X01A**	N	01	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	13-14			2,5 Ncm [0.22 in-lb]				
	NGCP****X07A**	N	07		DT-		18 Ncm [1.59 in-lb]					
	NGCM****X01A**	А		Blue Brown	21-22	15°						
	NGCM****X01A**	В	01									
	NGCM****X01A**	D		13 — 14	Contact Closed Contact Open							
	NGCM****X07A**	А		21 — 22 Black White Zb Black White Zb Green/Yellow	Positive Opening							
	NGCM****X07A**	В	07									
Side	NGCM****X07A**	D										
Rotary	NGCM****X01A**	Р	01									
	NGCM****X07A**	Р	07	3 Green/Yellow								
	NGCP****X24A**	А										
	NGCP****X24A**	В	24	Orongo Pluo	0° 26.5° 45° 65°							
	NGCP****X24A**	D		Orange——Blue Brown——Red	White-Violet Gray-Black							
	NGCP****X32A**	А		Gray Black White Violet	Brown-Red Orange-Blue							
	NGCP****X32A**	В	32	2 Zb	DT→ *							
	NGCP****X32A**	D			White-Violet Gray-Black	16.5°	17 Ncm	2,1 Ncm [0.19				
	NGCM****X24A**	А		i3	Brown-Red Orange-Blue	10.0	[1.5 in-lb]	in-lb]				
	NGCM****X24A**	В	24	Orange — Blue	Contact Closed							
	NGCM****X24A**	D		Brown Red Gray Black	Contact Open Positive Opening							
	NGCM****X32A**	А		White Violet 2 Zb								
	NGCM****X32A**	В	32	Green/Yellow								
	NGCM****X32A**	D										



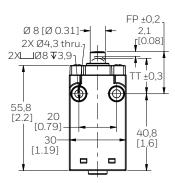
How to read and understand the bar chart information

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 11. Pin Plunger with Boot Seal **M Dimensions**

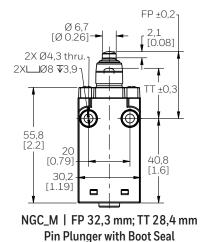
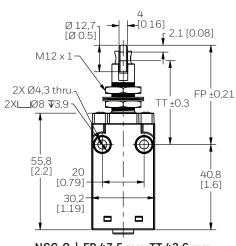
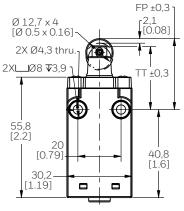


Figure 14. Panel-Mount Cross Roller **Plunger Q Dimensions**



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

Figure 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 12. Panel-Mount PIn Plunger **N Dimensions**

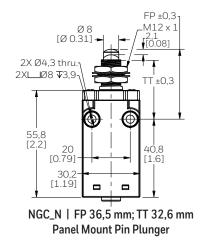
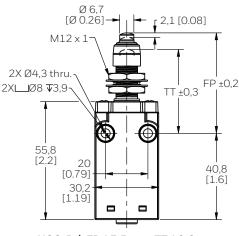
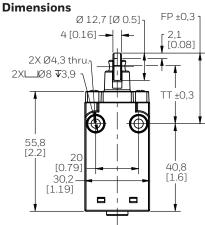


Figure 15. Panel-Mount PIn Plunger With Boot Seal R Dimensions



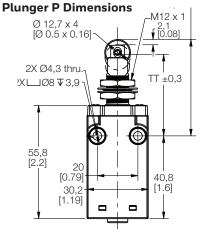
NGC_R | FP 47,5 mm; TT 43,6 mm Panel-Mount Pin Plunger with Boot Seal

Figure 10. Cross Roller Plunger L & T



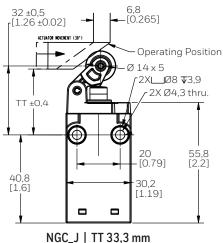
NGC_L | FP 30,3 mm; TT 26,4 mm NGC_T | FP 32,85 mm; TT 28,95 mm Cross Roller Plunger

Figure 13. Panel-Mount Roller



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

Figure 16. Top Roller Lever Arm **J Dimensions**



Top Roller Lever Arm

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Figure 17. Wedge Actuation

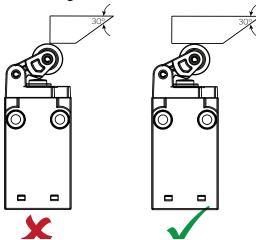
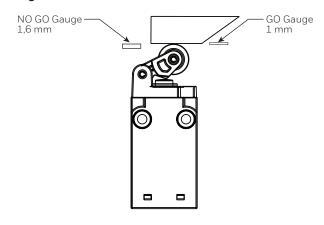


Figure 18. Final Installation Check at TTP



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 7. PLUNGER 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.			
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	А									
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	В	01	Blue P Brown							
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	D		13 — 14							
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	А		21 22 Black/ Zb Black							
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	В	07	White							
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	D			√ 24 45 7 24 15 15 15 15 15 15 15 15 15 15 15 15 15						
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	Ν	01	1662 3 4	21-22 - 13-14 13-14	1,2 mm [0.047 in]	11 N [2.47 lb]	3 N [0.67 lb]			
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	Ν	07	3 4 21 Zb 22	2,1						
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	Α			4,0 4,9 Contact Closed Contact Open Positive Opening						
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	В	01	Blue Brown 14 21 22 Black Zb Black White Zb Green/Yellow							
	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	Α									
	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	В	07								
	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	D									
Plunger Head	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	Р	01	1602 13-14							
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	Р	07	3 € 1 Zb 2 1 Tb 2 2							
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	А									
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	В	24	Oranga Phys							
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	D		Orange Blue Brown Red	olet sck Red Blue sck Red Blue						
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	Α		Gray Black White Violet	White-Violet Gray-Black Brown-Red Orange-Blue Gray-Black Brown-Red Orange-Blue Gray-Black Brown-Red Orange-Blue						
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	В	32	2 Zb	0 \$ 5 8 8 8 8 8 8	1 /1					
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	D			2,1	1,4 mm	9,5 N	2,2 N			
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	А		(4,0	[0.051	[2.14 lb]	[0.49 lb]			
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	В	24	Orange Blue	4,9 LL DT	lb]					
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	D		Brown — Red Gray — Black	Contact Closed Contact Open						
	NGCM****X32 B/C/D/L/M/N/P/Q/R/S/T	А		White 2 Zb	Positive Opening						
	NGCM****X32 B/C/D/L/M/N/P/Q/R/S/T	В	32	Green/Yellow							
	NGCM****X32 B/C/D/L/M/N/P/Q/R/S/T	D									

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TABLE	TABLE 8. TOP ROLLER ARM OPERATING CHARACTERISTICS, HEAD TYPE J											
Actu- ation	Catalog Listing	Connector/ Cable Exit	Switch Type	Circuit Diagram	Bar Charts	Differ- ential Travel max.	Oper- ating Force/ Torque max.	Release Force/ Torque max.				
	NGCP****X01 J	А										
	NGCP****X01 J	В	01	Blue P Brown								
	NGCP****X01 J	D		13 — 14								
	NGCP****X07 J	А		21 22 Black Zb Black								
	NGCP****X07 J B 07 NGCP****X07 J D NGCP****X01 J N 01 16002 3 13 4 14											
		1, 24 24 ↑										
		1602 3 4	13-14 13-14 13-14 13-14 13-14									
	NGCP****X07 J	Ν	07	3 4 21 Zb 22	6,8	//	E E NI	1,2 N				
	NGCM****X01 J A		12,5	4 mm [0.157 in]	5,5 N [1.24 lb]	[0.27 lb]						
	NGCM****X01 J	В	01	O1 Blue Brown 13 14 21 22 Black White Zb Black Green/Yellow	Contact Closed Contact Open Positive Opening							
	NGCM****X01 J	D										
	NGCM****X07 J	А										
	NGCM****X07 J	В	07									
Тор	NGCM****X07 J	D										
Roller Arm	NGCM****X01 J	Р	01	1002 3 0 4								
	NGCP****X07 J	Р	07	3 Green/Yellow								
	NGCP****X24 J	А			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			1,2 N [0.27 lb]				
	NGCP****X24 J	В	24	φ								
	NGCP****X24 J	D		Orange Blue								
	NGCP****X32 J	А		Gray Black White Violet	White-Vi Gray-Bla Brown-R Brown-R Orange-I Gray-Bla Brown-R							
	NGCP****X32 J	В	32	willte 2 Zb								
	NGCP****X32 J	D			6,8	4,3 mm	4,5 N					
	NGCM****X24 J	А		,	12,5	[0.169 in]	[1.01 lb]					
	NGCM****X24 J	В	24	Orange Blue	15,2 DT							
	NGCM****X24 J	D		Brown — Red Gray — Black	Contact Closed Contact Open							
	NGCM****X32 J	А		White 727b	Positive Opening							
	NGCM****X32 J	В	32	Green/Yellow								
	NGCM****X32 J	D										

WARRANTY/REMEDY

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

While Honeywell may provide information or engineering support for its products through Honeywell personnel, literature and website, it is the buyer's sole responsibility to determine the suitability of the Honeywell product(s) for the buyer's requirements.

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.

△ WARNINGIMPROPER 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.

⚠ WARNINGMISUSE 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.

For more information

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

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