NGC SERIES

MICRO SWITCH Compact Limit Switches



DESCRIPTION

Honeywell's 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.

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



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.



Table 1. Specifications

Characteristic	Parameter							
Description	compact, medium-duty limit switches							
Actuators	Side Rotary Configurations Side rotary Side rotary Side rotary (short) Side rotary with adjustable length roller lever Reversed side rotary (short) Reversed side rotary with adjustable length roller lever Reversed side rotary with adjustable length roller lever Reversed side rotary with adjustable length roller lever Panel-mount pin plunger Panel-mount roller plunger Panel-mount pin plunger	60 in] m [0.60						
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 enclsoure 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 ms as per IEC 60068-2-27; railway application, per IEC 61373 Class I Car B type	9						
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)							

Table 2. Electrical Rating and Utilization Category

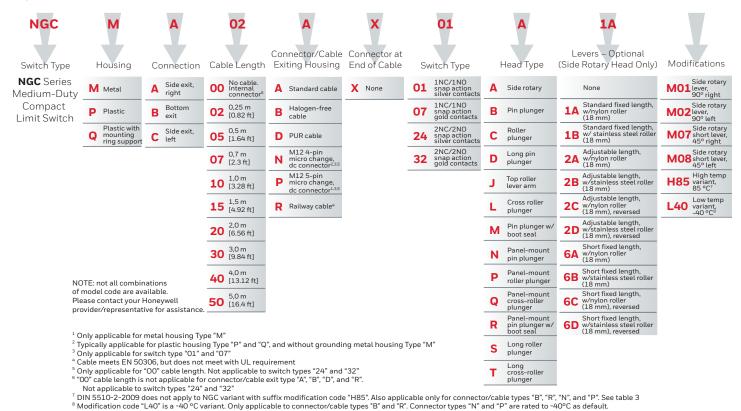
	SPDT 1	NO/1NC			DPDT 2	NO/2NC		SPDT and DPDT		
а	ac		lc	а	С	C	lc	gold-plated contacts		
A300 Ue (volts)	AC15 le (amps)	Q300 Ue (volts)	DC13 le (amps)	C300 Ue (volts)	AC15 le (amps)	R300 Ue (volts	DC13 le (amps)			
120	6	125	0.55	240	0.75	250	0.1	30 mVdc		
240	3	250	0.27					10 mA resistive		
Per IEC 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



Some legacy listings with "P" and "N" connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and these are rated to -40 °C. See table 4 connector types may have the L40 designation and the -40 °C. See table 4 connector types may have the L40 designation and the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C. See table 4 connector types may have the -40 °C.

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

Advanced Sensing Technolgies

Table 4. Connector/Cable Type Temperature Options7,8

Connector/Cable type	Standard NGC Se (with modification		High Temp NGC S (with modification		Low Temp NGC Series (with modification code, L40)		
	Tmin	Tmax	Tmin	Tmax	Tmin	Tmax	
Α	-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

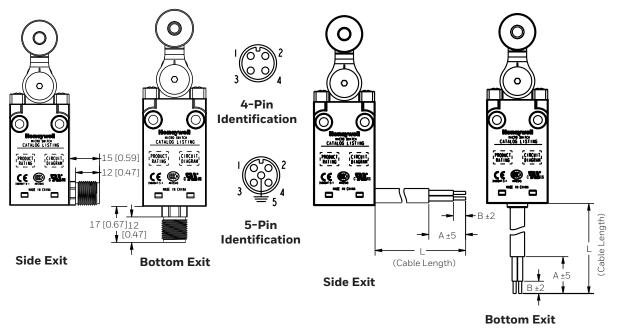


Table 5. Cable Descriptions

	Cable Descrip	tion			,	,	
Listing	Length (L) min.			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 (inter	nal 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]				
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]	4 % 0,7 3 111111	3 x 0,7 3 111111	0 % 0,5 111111	3 x 0,3 11111
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]				

Figure 3. Side Rotary A1A/A1B Dimensions

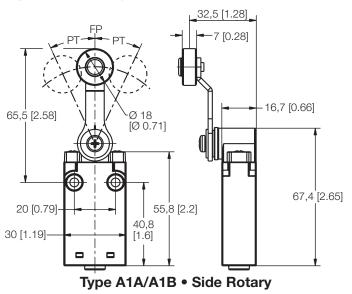


Figure 5. Side Rotary A2A/A2B Dimensions

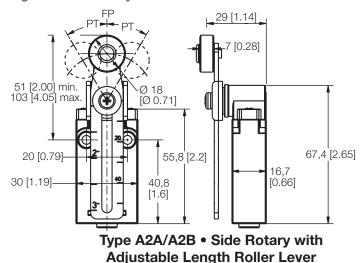
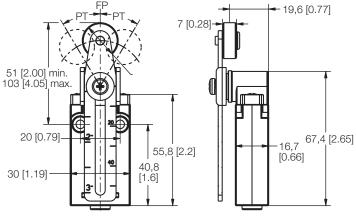


Figure 7. Side Rotary A2C/A2D Dimensions



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

Figure 4. Side Rotary A6A/A6B Dimensions

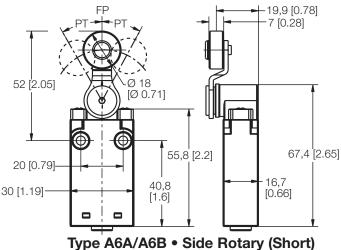
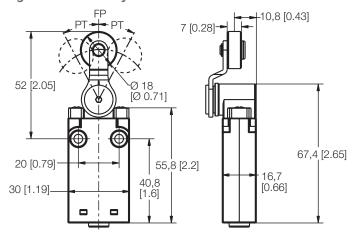


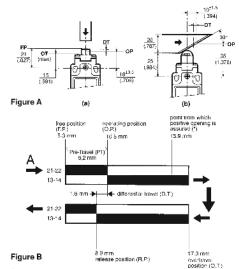
Figure 6. Side Rotary A6C/A6D Dimensions



Type A6C/A6D • Reversed Side Rotary (Short)

Table 5. 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 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	NGCP****X01A**	D		13 — 14				
	NGCP****X07A**	А		21 22 Black/ Zb Black				
	NGCP****X07A**	В	07	White	00 050 450 050			
	NGCP****X07A**	D			21-22 25° 45° 65°			
	NGCP****X01A**	N	01	1602 3 4	13-14			
	NGCP****X07A**	N	07	3 4 21 Zb 22	DT-			2,5 Ncm
	NGCM****X01A**	А			21-22	15°	18 Ncm [1.59 in-lb]	[0.22
	NGCM****X01A**	В	01	Blue Brown 13 — 14 21 — 22				in-lb]
	NGCM****X01A**	D			Contact Closed Contact Open			
	NGCM****X07A**	А		Black Zb Black	Positive Opening			
	NGCM****X07A**	В	07	Green/Yellow				
Side	NGCM****X07A**	D						
Rotary	NGCM****X01A**	Р	01	1 0 2 13 0 4 13 14				
	NGCM****X07A**	Р	07	3 4 21 22 1 Zb 2 2 1 Zb 2 2 2 2 2 2 2 2 2 2				
	NGCP****X24A**	А						
	NGCP****X24A**	В	24	9 3	0° 26.5° 45° 65° White-Violet Gray-Black			
	NGCP****X24A**	D		Orange——Blue Brown——Red				
	NGCP****X32A**	А		Gray Black White Violet	Brown-Red Orange-Blue			
	NGCP****X32A**	В	32	P 2 Zb	DT- → •			
	NGCP****X32A**	D			White-Violet Gray-Black	16.50	17 Ncm	2,1 Ncm
	NGCM****X24A**	А		(Brown-Red Orange-Blue	16.5°	[1.5 in-lb]	[0.19 in-lb]
	NGCM****X24A**	В	24	Orange Blue	Contact Closed			
	NGCM****X24A**	D		Brown——Red Gray——Black	Contact Open			
	NGCM****X32A**	А		White Violet 2 Zb	Positive Opening			
	NGCM****X32A**	В	32	Green/Yellow				
	NGCM****X32A**	D						

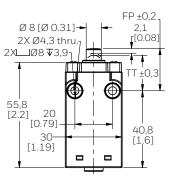


How to read and understand the bar chart information

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.

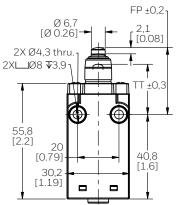
Look at Figures A and B as examples. Actuator type used for test is the linear Cam travel type (b) shown left. The start point is at the arrow marked "A" (See fig. B). This shows the free position to be $5.3 \, \text{mm}$ from the vertical center line of the unit. At this stage there is a circuit between the terminals $21-22 \, \text{but}$ no circuit between terminals $13-14 \, \text{cm}$. The unit can be actuated until it reaches the operating position which is $10.5 \, \text{mm}$ from the center line – a travel distance of $10.5 \, -5.3 \, = \, 5.2 \, \text{mm}$ from the free position. At this point the circuit arrangement changes – no circuit between $21-22 \, \text{but}$ making a circuit between $13-14 \, \text{cm}$. If, however, the contacts of terminals $21-22 \, \text{cm}$ 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, $13.9 \, \text{mm}$. As the switch returns it reaches the release position at $8.9 \, \text{mm}$ 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. $10.5 \, -8.9 \, = \, 1.6 \, \text{mm}$. The asterisk (*) indicates the point from which the positive opening is assured.

Figure 8. Pin Plunger B & D **Dimensions**



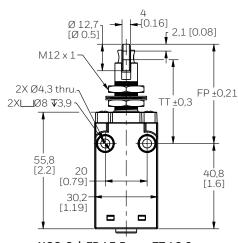
NGC_B | FP 19,8 mm; TT 15,9 mm NGC_D | FP 22,4 mm; TT 18,5 mm Pin Plunger

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



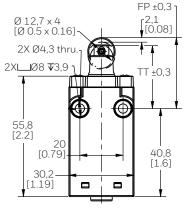
NGC_M | FP 32,3 mm; TT 28,4 mm Pin Plunger with Boot Seal

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



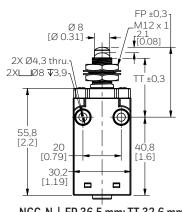
NGC_Q | FP 47,5 mm; TT 43,6 mm Panel-Mount Cross Roller Plunger

Figure 9. Roller Plunger C & S **Dimensions**



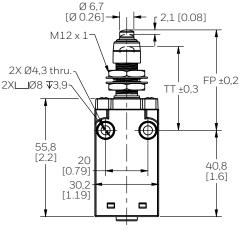
NGC_C | FP 30,3 mm; TT 26,4 mm NGC_S | FP 32,85 mm; TT 28,95 mm Roller Plunger

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



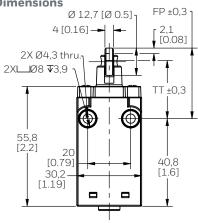
NGC_N | FP 36,5 mm; TT 32,6 mm Panel Mount Pin Plunger

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



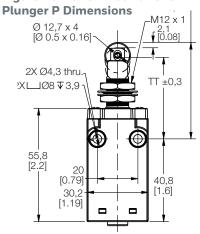
NGC_R | FP 47,5 mm; TT 43,6 mm Panel-Mount Pin Plunger with Boot Seal

Figure 10. Cross Roller Plunger L & T **Dimensions**



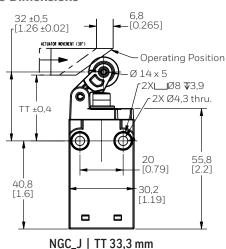
NGC_L | FP 30,3 mm; TT 26,4 mm NGC_T | FP 32,85 mm; TT 28,95 mm Cross Roller Plunger

Figure 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

Figure 17. Wedge Actuation

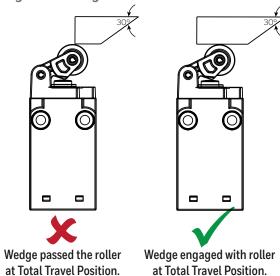
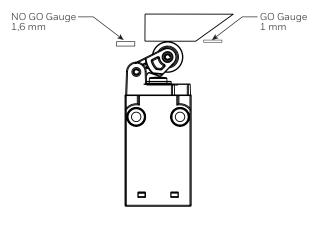


Figure 18. Final Installation Check at TTP



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

Table 6. Plunger Operating Characteristics

Actu- ation	Catalog Listing	Connector/ Cable Exit	Switch Type	Circuit Diagram	Bar Charts	Differ- ential Travel max.	Oper- ating Force/ Torque max.	Re- lease 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		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						
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	N	01	1602 3 4	21-22 13-14 13-14 13-14	1,2 mm [0.047 in]		
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	N	07	3 21 22 Zb 2	2,1		11 N [2.47 lb]	3 N [0.67 lb]
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	А			4,0			
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	В	01	Blue Brown 14 21 22 Black White Zb Black Green/Yellow	4,9			
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	D			Contact Closed			
	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	А	07		Contact Open			
	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	В			Positive Opening			
Plung-	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	D						
er Head	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	Р	01	1 0 2 3 0 4				
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	Р	07	3 22 22 1 25 2 Green/Yellow				
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	А		, φ				
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	В	24					
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	D		Orange——Blue Brown——Red	Sine State			
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	А		Gray Black White Violet	inte-Vic ay-Blac own-Ra ange-E ange-Blac own-Ra			
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	В	32	Z Zb				
	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 [0.49 lb]
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	А			4,0	[0.051 lb]	[2.14 lb]	
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	В	24	OrangeBlue	4,9	,	,	
	NGCM****X24 B/C/D/L/M/N/P/Q/R/S/T	D		Brown Red Gray Black	Contact Closed			
	NGCM****X32 B/C/D/L/M/N/P/Q/R/S/T	А		White 27b	Contact Open 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						

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

Actu- ation	Catalog Listing	Connec- tor/ 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	В	07	White				
	NGCP****X07 J	D			√ 24 24 ↑			
	NGCP****X01 J	N	01	1602 3 4	21-22 13-14 13-14			
	NGCP****X07 J	N	07	3 4 21 Zb 22 Zb 2	6,8	4 mm [0.157 in]	5,5 N [1.24 lb]	1,2 N [0.27 lb]
	NGCM****X01 J	А		Blue Brown 13 14 21 22 Black Zb Black White Zb Green/Yellow	12,5 15,2 Contact Closed Contact Open Positive Opening			
	NGCM****X01 J	В	01					[0.27 to]
	NGCM****X01 J	D						
	NGCM****X07 J	А	07					
	NGCM****X07 J	В						
Тор	NGCM****X07 J	D						
Roller Arm	NGCM****X01 J	Р	01	1 6 2 3 4 13 14				
	NGCP****X07 J	Р	07	3 Green/Yellow				
	NGCP****X24 J	А			White-Violet Gray-Black Brown-Red Orange-Blue Gray-Black Brown-Red Gray-Black Brown-Red Grange-Blue			
	NGCP****X24 J	В	24	٠, ٩				
	NGCP****X24 J	D		Orange Blue Brown Red				
	NGCP****X32 J	А		Gray Black White Violet				
	NGCP****X32 J	В	32	Willie 1 2 Zb				
	NGCP****X32 J	D			6,8	4,3 mm	4,5 N	1,2 N
	NGCM****X24 J	А		t=	12,5	[0.169 in]	[1.01 lb]	[0.27 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 7 2 7b	Positive Opening			
	NGCM****X32 J	В	32	⊕Green/Yellow				
	NGCM****X32 J	D						

ADDITIONAL MATERIALS

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

- 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 sps.honeywell.com/ast or call:

USA/Canada +302 613 4491 Latin America +1 305 805 8188 Europe +44 1344 238258 Japan +81 (0) 3-6730-7152 Singapore +65 6355 2828 Greater China +86 4006396841

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 application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application.

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.

Honeywell

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