

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.

Honeywell

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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 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 op	erating 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 For wedge actuation: 500,000 cycles min. at 60 C 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 1500 Vac between all terminals to enclsoure after						
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 (111)						
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	plication, per IEC 61373 Class I Car B type					
Vibration	10 g as per IEC 60068-2-6, frequency range 10 H railway application per IEC 61373 Class I Car B ty						
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						

TABLE 2. ELECTRICAL RATING AND UTILIZATION CATEGORY									
SPDT 1NO/1NC			DPDT 2NO	2NC	SPDT and DPDT				
ac		dc		ac	ac			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 609									

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				

¹15 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	М	Α	02	Α	X		01		A	1A	
Switch Type	Housing	Connection	Cable Length	Connector/Cable Exiting Housing	Connector at End of Cable	Sv	vitch Type	ŀ	Head Type	Levers – Optional (Side Rotary Head Only)	Modifications
NGC Series Medium-Duty	M Metal	A Side exit, right	00 No cable. Internal connector ⁶	A Standard cable	X None	01	1NC/1NO snap action silver contacts	Α	Side rotary	None	MO1 Side rotary lever, 90° right
Compact Limit Switch	P Plastic	B Bottom exit	02 0,25 m [0.82 ft]	B Halogen-free cable		07	1NC/1NO snap action gold contacts	в	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	0,5 m [1.64 ft]	D PUR cable		24	2NC/2NO snap action silver contacts	С	Roller plunger	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 ^{23,5}		32	2NC/2NO snap action gold contacts	D	Long pin plunger	Adjustable length, w/nylon roller (18 mm)	MO8 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	Adjustable length, w/stainless steel roller (18 mm)	H85 High temp variant, 85 °C7
			15 ^{1,5 m} [4.92 ft]	R Railway cable ⁴				L	Cross roller plunger	Adjustable length, w/nylon roller (18 mm), reversed	L40 Low temp variant, -40 °C ⁸
			20 ^{2,0 m} [6.56 ft]					м	Pin plunger w∕ boot seal	Adjustable length, w/stainless steel roller (18 mm), reversed	
			30 ^{3,0 m} [9.84 ft]					Ν	Panel-mount pin plunger	6A Short fixed length, w/nylon roller (18 mm)	
)TE: not all combir		40 ^{4,0 m} [13.12 ft]					Ρ	Panel-mount roller plunger	6B Short fixed length, w/stainless steel roller (18 mm)	
of model code are available. Please contact your Honeywell provider/representative for assistance			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	
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"						۸"	S	Long roller plunger			
	able meets EN 50			irement switch types "24" and	"37"			-	Long		

¹⁵ 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".
 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.
 ⁸ 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

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		
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		
Ν	-40°C	75°C	-25°C	85°C	-	-		
Р	-40°C	75°C	-25°C	85°C	-	-		

Figure 2. Connector Dimensions and Pin-Out Identification



Bottom Exit

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]					
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 mm²	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]		0 // 0,/ 0 /////	0 / 0,0 /////	0 / 0,0 /////	
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



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

Figure 7. Side Rotary A2C/A2D Dimensions



Adjustable Length Roller Lever

Figure 4. Side Rotary A6A/A6B Dimensions







Type A6C/A6D • Reversed Side Rotary (Short)

TABLE	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		13 - 14						
	NGCP****X07A**	А		Black/Zb Black						
	NGCP****X07A**	В	07	Wille						
	NGCP****X07A**	D			0° 25° 45° 65° 21-22					
	NGCP****X01A**	Ν	01	160^2 3^4 4^1	13-14					
	NGCP****X07A**	Ν	07	3 4 21 22 7 Zb 22				2,5 Ncm		
	NGCM****X01A**	А			21-22	15°	18 Ncm [1.59 in-lb]	[0.22 in-lb]		
	NGCM****X01A**	В	01	Blue Brown	Contact Closed Contact Open Positive Opening					
	NGCM****X01A**	D								
	NGCM****X07A**	А		Black Zb Black						
	NGCM****X07A**	В	07	Green/Yellow						
Side	NGCM****X07A**	D								
Rotary	NGCM****X01A**	Ρ	01							
	NGCM*****X07A**	Ρ	07	$3 \bigoplus_{5}^{4} \bigoplus_{1}^{21} \xrightarrow{22}_{2b} \xrightarrow{22}_{2b}$						
	NGCP****X24A**	А								
	NGCP****X24A**	В	24	4	0° 26.5° 45° 65°					
	NGCP****X24A**	D		Orange Blue Brown Red	White-Violet					
	NGCP****X32A**	А		Gray Black White Violet	Brown-Red					
	NGCP****X32A**	В	32	✓ P _{2 Zb}	DT-> - *					
	NGCP****X32A**	D			White-Violet Gray-Black Brown-Red	16.5°	17 Ncm	2,1 Ncm [0.19		
	NGCM****X24A**	А			Brown-Red Orange-Blue	10.5	[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 Positive Opening					
	NGCM****X32A**	А		White Violet						
	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.



-DT

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 Plunger P Dimensions



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

Figure 16. Top Roller Lever Arm J Dimensions



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	7. PLUNGER OPERATING CHARACT	ERIS	TICS					
ition	Catalog Listing	ector/ · Exit	Switch Type	Circuit Diagram	Bar Charts	Differential Travel max.	Operating Force/ Torque max.	Release Force/ Torque max.
Actuation		Connector Cable Exit	Switc			Differ Trave	Opera Torqu	Relea Torqu
	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 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			1 224 224			
	NGCP****X01 B/C/D/L/M/N/P/Q/R/S/T	Ν	01	100^{2} 30^{4} $13-14$				
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	Ν	07	3 4 + 21 + 22 2b + 21 + 22 2b + 22	2,1	1,2	11 N	3 N
	NGCM****X01 B/C/D/L/M/N/P/Q/R/S/T	А			4,0	mm [0.047	[2.47	[0.67
	NGCM*****X01 B/C/D/L/M/N/P/Q/R/S/T	В	01	Blue Brown		in]	lb]	lb]
	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		Black Zb Black	Contact Open Positive Opening			
	NGCM****X07 B/C/D/L/M/N/P/Q/R/S/T	В	07	Green/Yellow	• Fositive Opening			
	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	Ρ	01	$1 \bigcirc 2^{2}$ $1 \bigcirc 4^{-14}$ $13 - 14^{-14}$				
	NGCP****X07 B/C/D/L/M/N/P/Q/R/S/T	Ρ	07	3 5 ↓ 2 1 ↓ 2 2 ↓ 2 1 ↓ 2 2 ↓ 2 1 ↓ 2 2 ↓ 2 1 ↓ 2 0 2 ↓ 2 0 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					
	NGCP****X24 B/C/D/L/M/N/P/Q/R/S/T	D		Orange Blue Brown Red	ack Blue Blue Blue			
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	А		Gray Black White Violet	White-Viole Gray-Black Brown-Red JOrange-Blu White-Viole Gray-Black Brown-Red Drange-Blu			
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	В	32	✓ ¹ / ₂ Zb		1,4		
	NGCP****X32 B/C/D/L/M/N/P/Q/R/S/T	D			2,1	mm	9,5 N [2.14	2,2 N [0.49
	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	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 Violet	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 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 Brown				
	NGCP****X01 J	D		13 — 14				
	NGCP****X07 J	А		Black/Zb Black				
	NGCP****X07 J	В	07	White				
	NGCP****X07 J	D			1 27 27			
	NGCP****X01 J	Ν	01	100^{2} $13-414$	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $			
	NGCP****X07 J	Ν	07	3 4 + 21 + 22 = 22	6,8	4 mm [0.157 in]	5,5 N [1.24 lb]	1,2 N [0.27 lb]
	NGCM****X01 J	А			12,5			
	NGCM****X01 J	В	01	Blue Brown	15,2 Contact Closed Contact Closed Contact Open • Positive Opening			
	NGCM****X01 J	D		$ \begin{array}{c} 13 - 14 \\ 21 - 22 \\ Black \\ White Zb \\ \hline Green/Yellow \end{array} $				
	NGCM****X07 J	А						
	NGCM****X07 J	В	07					
Тор	NGCM****X07 J	D						
Roller Arm	NGCM*****X01 J	Ρ	01					
	NGCP****X07 J	Ρ	07	3 4 21 Zb 2 5 Green/Yellow				
	NGCP****X24 J	А						
	NGCP****X24 J	В	24	<u>ې</u>				
	NGCP****X24 J	D		Orange Blue Brown Red	Blue Blue Blue			
	NGCP****X32 J	А		Gray Black White Violet	0 Minite-Violet Gray-Black Brown-Red Orange-Blue Gray-Black Brown-Red Brown-Red			
	NGCP****X32 J	В	32	2 Zb				
	NGCP****X32 J	D			6,8	4,3 mm	4,5 N	1,2 N
	NGCM****X24 J	А		·	12,5	[0.169 in]	[1.01 lb]	[0.27 lb]
	NGCM****X24 J	В	24	Orange Blue				
	NGCM****X24 J	D		Brown – Red Gray – Black	Contact Closed			
	NGCM****X32 J	А		White 2 Zb	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.

A WARNING

- 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.

A 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.

For more information

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