



# PRODUCT TRAINING MODULE

MICRO SWITCH™ Compact Limit Switches  
NGC Series

**Honeywell**

# Summary of Contents

- In this training module, you will learn the following about Honeywell's MICRO SWITCH™ Compact Limit Switches, NGC Series:
  - Overview of the product
  - Key features
  - Value to customers
  - Differentiation
  - Potential applications
  - Where to obtain product information



# Overview

- Honeywell's new MICRO SWITCH™ Compact Limit Switches, NGC Series, are used for position detection
- The addition of the NGC Series to Honeywell's limit switch portfolio allows for a single supplier for both SPDT (single pole double throw) and DPDT (double pole double throw) compact medium duty limit switches
- This provides customers with another position detection option within the Honeywell portfolio, which can enable the customer to standardize on a single supplier



# Features

- SPDT or DPDT configurable circuitry
- Silver alloy and gold plated contact options
- Metal and plastic housing options
- Cable and connector terminations
- Variety of heads and actuator levers
- Snap-action, positive-break contacts
- UL, CE, cUL, and CCC approvals
- NEMA 1, 4, 12, 13
- IP67 sealing



# Value to Customers

- **Cost-effective:** Provides a single source for a SPDT and DPDT compact 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
- **Application support:** Customers with a global footprint can count on Honeywell for regional support for new applications and troubleshooting
- **Configurable:** Allows design engineers to standardize on a single footprint while meeting a variety of electrical requirements (see next slide)

# Configurable

Figure 1. Product Nomenclature and Order Guide

NGC	M	A	02	A	X	01	A	1	1	
Switch Type	Housing	Connection	Cable Length	Connector/Cable Exiting Housing	Connector at End of Cable	Switch Type	Head Type	Levers (Optional)	Rollers (Optional)	Modifications
<b>NGC Series Medium-Duty Compact Limit Switch</b>	<b>M</b> Metal	<b>A</b> Side exit, right	<b>00</b> No cable, internal connector	<b>A</b> Standard cable	<b>X</b> None	<b>01</b> 1NC/1NO snap action silver contacts	<b>A</b> Side rotary	None	None	Serialized number for specials
	<b>P</b> Plastic	<b>B</b> Bottom exit	<b>02</b> 0,25 m [0.82 ft]	<b>B</b> Halogen-free cable		<b>07</b> 1NC/1NO snap action gold contacts	<b>B</b> Pin plunger	<b>1</b> Standard, fixed length <sup>1</sup>	<b>A</b> 18 mm nylon roller <sup>2</sup>	
	<b>Q</b> Plastic with mounting ring support	<b>C</b> Side exit, left	<b>05</b> 0,5 m [1.64 ft]	<b>D</b> PUR cable		<b>24</b> 2NC/2NO snap action silver contacts	<b>C</b> Roller plunger	<b>2</b> Adjustable length, roller lever <sup>1</sup>	<b>B</b> 18 mm stainless steel roller <sup>2</sup>	
			<b>07</b> 0,7 m [2.3 ft]	<b>N</b> M12 4-pin micro change, dc connector		<b>32</b> 2NC/2NO snap action gold contacts	<b>D</b> Long pin plunger	<b>6</b> Short, fixed length <sup>1</sup>	<b>C</b> 18 mm nylon roller, reversed <sup>2</sup>	
			<b>10</b> 1,0 m [3.28 ft]	<b>P</b> M12 5-pin micro change, dc connector			<b>L</b> Cross roller plunger		<b>D</b> 18 mm stainless steel roller, reversed <sup>2</sup>	
			<b>15</b> 1,5 m [4.92 ft]				<b>M</b> Pin plunger w/ boot seal			
			<b>20</b> 2,0 m [6.56 ft]				<b>N</b> Panel-mount pin plunger			
			<b>30</b> 3,0 m [9.84 ft]				<b>P</b> Panel-mount roller plunger			
			<b>40</b> 4,0 m [13.12 ft]				<b>Q</b> Panel-mount cross-roller plunger			
			<b>50</b> 5,0 m [16.4 ft]				<b>R</b> Panel-mount pin plunger w/ boot seal			
						<b>S</b> Long roller plunger				
						<b>T</b> Long cross-roller plunger				

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

<sup>1</sup> Only applicable for Head Type "A"

<sup>2</sup> Only applicable for Lever Types "1, 2, 6"

<sup>3</sup> Only applicable for Lever Types "2, 6"



# Differentiation

- **Two times the vibration (10 g) and shock (50 g) ratings** of comparable competitive devices allow for potential use in harsh environmental conditions, providing enhanced reliability and repeatability
- **Broader current capacity (up to 10 A)** than comparable devices allows for potential use in a wider set of applications, making platform standardization an easier task

# Potential Applications

- **Industrial**

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



# Key Takeaways

- ✓ **Cost-effective:** Provides a single source for a SPDT and DPDT compact limit switch, which can help minimize the OEM's sourcing expenses by simplifying their supply chain
- ✓ **Versatile:** Durable packaging allows for use in many harsh indoor or outdoor applications
- ✓ **Configurable:** Allows design engineers to standardize on a single footprint while meeting a variety of electrical requirements



# About Honeywell's Products

- For more information about all of Honeywell Sensing and Productivity Solutions' sensor and switch products, visit [sensing.honeywell.com](http://sensing.honeywell.com)



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