

MICRO SWITCH Miniature Compact Limit Switches



DESCRIPTION

The 91MCE Series limit switch is a compliment to Honeywell's existing product line of smaller, lower cost limit switches. Designed for modern industrial OEMs, the miniature package size fits in applications where space is limited. The small package size can be gang mounted for applications requiring more than two switch circuits. The 20 mm mounting pattern meets most globally accepted mounting standards.

This product family offers the user many options including a variety of different actuator styles. Connection options include pre-leaded cable in various lengths or M12 connectors, both with side or bottom exits. Design flexibility is further enhanced with the availability of both slow action and snap action circuitry. Direct acting contacts are designed to open the NC contact when actuated. The epoxy-sealed rugged die-cast housing provides enhanced environmental durability.

Priced competitively, the 91MCE is a drop-in replacement to many products, and provides enhanced quality that customers expect from Honeywell.

FEATURES

- Direct acting contacts are designed to open NC contacts when actuated
- Sealed to IP67; NEMA 1, 4, 12, 13 suitable for outdoor applications
- CE, UKCA, cULus, CCC approvals meet most global approvals
- Nine actuator styles offer design flexibility
- Slow-action and snap-action circuitry options
- Pre-leaded cable and M12 connector options
- Expected mechanical life: 5 million operations
- Side exit (standard) and bottom exit connection options

POTENTIAL APPLICATIONS

- Machine equipment
- Material handling
- · Aerial lifts
- Forklifts
- Off road and outdoor equipment

PORTFOLIO



The 91MCE Series is part of the 14CE, 914CE, NGC, SZL-VL-S, SSCE 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 MINIATURE COMPACT LIMIT SWITCHES 91MCE SERIES

TABLE 1. SPECIFICATIONS					
Characteristic	Parameter				
Operating speed	0,05 mm to 1 m per second				
Operating frequency – mechanical	120 ops per minute				
Operating frequency – electrical	30 ops per minute				
Insulation resistance	> 100 Mohm @ 500 Vdc				
Rated voltage	300 Vac (EN60947-5-1)				
Rated thermal current	10A pre-leaded versions; 3A connector versions				
Electrical rating	ac 15 A 300; dc 13 Q300				
Dielectric strength	1000 Vac for one minute between current carrying parts 2500 Vac for one minute between non-current carrying parts				
Expected mechanical life	5 million operations				
Expected electrical life	5 x 105 operations				
Operating temperature	-25 °C to 85 °C [-13 °F to 185 °F] without the formation of ice				
Humidity	< 95 % RH				
Cable	5 core, 0.75 mm2				
Degree of protection	IP67				

TABLE 2. ELECTRICAL RATINGS IEC/EN 60947-5-1										
Designation & Utilization Category		Rated operational current le (A) at rated operational voltage Ue VA rating								
		120 V	240 V	380 V	480 V	500 V	600 V	Make	Break	
AC15	A300	6	3	_	-	_	-	7200	720	
		125 Vdc		250 Vdc						
DC13	Q300	0.55	0.27					69	69	

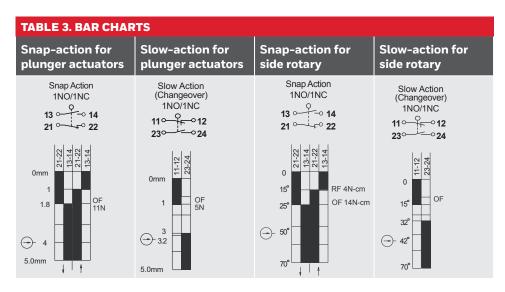
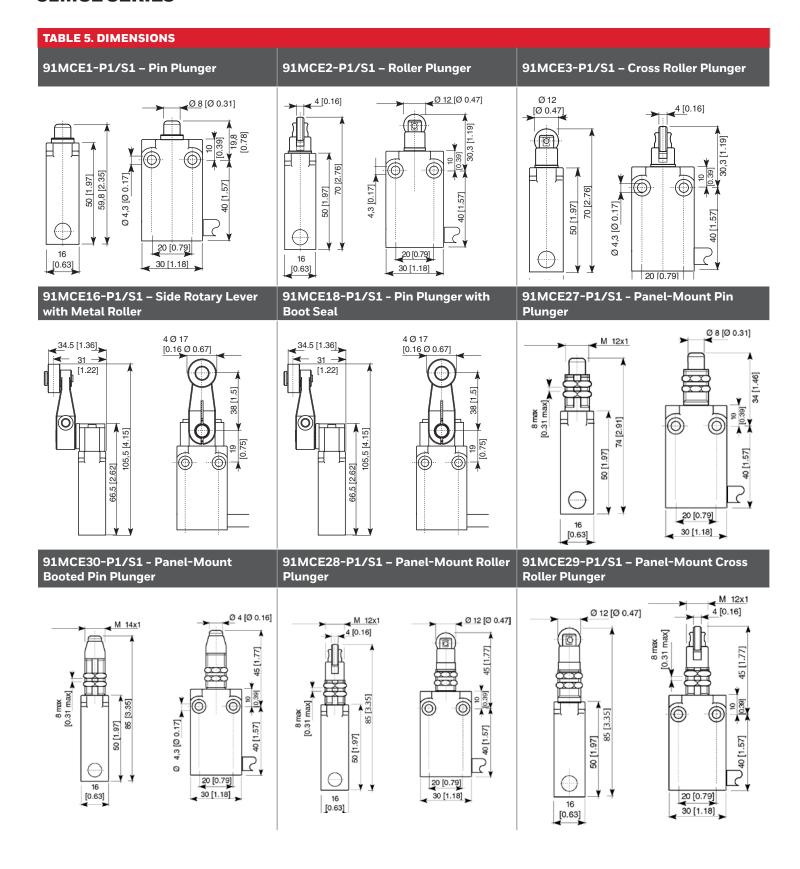


TABLE 4. PIN OUT "Q" OPTION Pin 1 & 2 - Normally ClosedPin 3 & 4 - Normally Open

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PRODUCT NOMENCLATURE

91MCE	16	P	1	В	X	I
Switch Type	Actuator Type	Switch Type	Cable Length*	Cable/ Connector Exit	Lever Type	Connector
91MCE Series Miniature Compact Limit Switch	1 Pin plunger	P 1NO/1NC direct acting snap action	Connector version	Side exit	Standard lever, metal roller	Cable (no connector)
	2 Roller plunger	S 1NO/1NC direct acting BBM	1 1 meters	B Bottom exit	P Standard lever, plastic roller	Q 4-pin M12 connector
	3 Cross roller plunger		2 2 meters		Short lever, metal roller	
	Side rotary with metal lever		3 3 meters		OP Short lever, plastic roller	
	18 Pin plunger with boot seal		5 5 meters			
	Pin plunger/ panel mount					
	Roller plunger/ panel mount					
	29 Cross roller/ panel mount					
	Pin plunger/ panel mount, boot seal					

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

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.

△ 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.

⚠ WARNINGIF USED IN APPLICATIONS CONCERNING HUMAN SAFETY

- Only use NC direct opening
 ("positive opening"/"positive
 break") contacts, identified by the
 symbol.
- Do NOT use flexible/adjustable actuators. Only use actuators designed for safety applications.
- Do NOT defeat, tamper, remove, or bypass this switch.
- Hazardous voltage, disconnect power before servicing.
- Strictly adhere to all installation and maintenance instructions
- Consult with local safety agencies and their requirements when designing a machine-control link, interface, and all control elements that affect safety.

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

FOR MORE INFORMATION

Honeywell Advanced Sensing
Technologies services its customers
through a worldwide network of sales
offices and distributors. For application
assistance, current specifications, pricing
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