

91MCE Series Limit Switch



Honeywell's new 91MCE Series limit switch is an addition to the existing CE Series limit switches. 91MCE is cost-effective sensing components with factory pre-wiring or M12 quick connector which allows for miniaturization of connection and eliminates the need to wire at the switch. This allow 91MCE to be used in limited access areas. A full range of actuators and wiring options are available.

91MCE available in snap action and slow action with direct opening feature. Zinc die cast housing and epoxy potting allow the switch to be used in harsh environment.



Characteristics

Actuators	See selection guide
Operating Speed	0.05mm ~ 1m/s
Operating Frequency	Mechanically: 120 ops/min, Electrically: 30 ops/min
Rated Voltage	300VAC (EN60947-5-1)
Rated Thermal Current	Prewired: 10A; Quick Connector: 3A
Contact Rating	AC15 A300; DC13 Q300
Contact Resistance	<25mΩ (initial)
Insulation Resistance	>100MΩ@500V DC
Dielectric Strength	1000VAC for 1 min between current carrying parts 2500VAC for 1 min between non-current carrying parts
Service Life	Mechanically: 5,000,000 ops Electrically: 500,000 ops at maximum rating
Shock Resistance	Free position:<10G, Maximum position: <30G
Vibration Resistance	10 to 55 Hz, 1.5 mm double amplitude
Operating Temperature	-25 to 85°C without formation of ice
Humidity	Max. 95%RH
Cable	0.75mm ² , 5 core
Degree of Protection	IP67

Features

- Positive opening (Force apply directly on normal closed contact to make sure contact is opened safely).
- Long mechanical Life: 5 Millions minimum.
- IP67 rated, for outdoor applications.
- CE, cULus, CCC approved
- Factory pre-wired or M12 quick connector

Applications

- General and Special machinery
- Material Handling Equipment:
- Conveyors, elevators, crane and hoist
- Textile machinery
- Construction machinery and equipment, vehicles and lift trucks

Selection Guide

91MCE		16		P		1		B		Q	
Actuator		Contact Block		Cable Length		Special Mark		M12 Quick Connector			
1	Plunger	P	1NO/1NC Snap Action	1	1m	-	Side Exit	Q	Bottom		
2	Roller Plunger	S	1NO/1NC Break before Make	2	2m	B	Bottom Exit	Q1	Side Exit		
3	Cross-Roller Plunger			3	3m	P	Plastic Roller or Lever				
16	Fixed Side Rotary Lever			5	5m						
18	Sealed Plunger										
27	Panel Mount Plunger										
28	Panel Mount Roller Plunger										
29	Panel Mount Cross Roller Plunger										
30	Panel Mount Seal Plunger										
66	Spring Coil with Plastic Rod										

	1, 2 Normal Closed
	3, 4 Normal Open

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Snap Action 1NO/1NC Plunger Type	Slow Action 1NO/1NC Plunger Type	Snap Action 1NO/1NC Side Rotary Lever	Slow Action 1NO/1NC Side Rotary Lever
<p>0mm 1 1.8 4 5.0mm</p> <p>21-22 13-14 21-22 13-14</p> <p>OF 11N</p>	<p>0mm 1 3 3.2 5.0mm</p> <p>11-12 23-24</p> <p>OF 5N</p>	<p>0 15° 25° 50° 70°</p> <p>21-22 13-14 21-22 13-14</p> <p>RF 4N-cm OF 14N-cm</p>	<p>0 15° 32° 42° 70°</p> <p>11-12 23-24</p> <p>OF</p>

Dimensions

91MCE1 Plunge Type	91MCE2 Roller Plunger Type	91MCE3 Cross Roller Plunger Type
91MCE16 Side Rotary Lever Type	91MCE18 Sealed Plunger Type	91MCE27 Panel Mount Plunger Type

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91MCE30 Panel Mount Sealed Plunger	91MCE28 Panel Mount Roller Plunger	91MCE29 Panel Mount Cross Plunger
91MCE66 Spring Coil With Plastic Rod		