

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																																																				
<table border="1"> <thead> <tr> <th colspan="2">Actuator</th> </tr> </thead> <tbody> <tr><td>1</td><td>Plunger</td></tr> <tr><td>2</td><td>Roller Plunger</td></tr> <tr><td>3</td><td>Cross-Roller Plunger</td></tr> <tr><td>16</td><td>Fixed Side Rotary Lever</td></tr> <tr><td>18</td><td>Sealed Plunger</td></tr> <tr><td>27</td><td>Panel Mount Plunger</td></tr> <tr><td>28</td><td>Panel Mount Roller Plunger</td></tr> <tr><td>29</td><td>Panel Mount Cross Roller Plunger</td></tr> <tr><td>30</td><td>Panel Mount Seal Plunger</td></tr> <tr><td>66</td><td>Spring Coil with Plastic Rod</td></tr> </tbody> </table>		Actuator		1	Plunger	2	Roller Plunger	3	Cross-Roller Plunger	16	Fixed Side Rotary Lever	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	<table border="1"> <thead> <tr> <th colspan="2">Contact Block</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>1NO/1NC Snap Action</td> </tr> <tr> <td>S</td> <td>1NO/1NC Break before Make</td> </tr> </tbody> </table>	Contact Block		P	1NO/1NC Snap Action	S	1NO/1NC Break before Make	<table border="1"> <thead> <tr> <th colspan="2">Cable Length</th> </tr> </thead> <tbody> <tr><td>1</td><td>1m</td></tr> <tr><td>2</td><td>2m</td></tr> <tr><td>3</td><td>3m</td></tr> <tr><td>5</td><td>5m</td></tr> </tbody> </table>	Cable Length		1	1m	2	2m	3	3m	5	5m	<table border="1"> <thead> <tr> <th colspan="2">Special Mark</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Side Exit</td> </tr> <tr> <td>B</td> <td>Bottom Exit</td> </tr> <tr> <td>P</td> <td>Plastic Roller or Lever</td> </tr> </tbody> </table>	Special Mark		-	Side Exit	B	Bottom Exit	P	Plastic Roller or Lever	<table border="1"> <thead> <tr> <th colspan="2">M12 Quick Connector</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Bottom</td> </tr> <tr> <td>Q1</td> <td>Side Exit</td> </tr> </tbody> </table>	M12 Quick Connector		Q	Bottom	Q1	Side Exit
Actuator																																																									
1	Plunger																																																								
2	Roller Plunger																																																								
3	Cross-Roller Plunger																																																								
16	Fixed Side Rotary Lever																																																								
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																																																								
Contact Block																																																									
P	1NO/1NC Snap Action																																																								
S	1NO/1NC Break before Make																																																								
Cable Length																																																									
1	1m																																																								
2	2m																																																								
3	3m																																																								
5	5m																																																								
Special Mark																																																									
-	Side Exit																																																								
B	Bottom Exit																																																								
P	Plastic Roller or Lever																																																								
M12 Quick Connector																																																									
Q	Bottom																																																								
Q1	Side Exit																																																								
<table border="1"> <tr> <td> </td> <td> <table border="1"> <tr> <td>1, 2</td> <td>Normal Closed</td> </tr> <tr> <td>3, 4</td> <td>Normal Open</td> </tr> </table> </td> </tr> </table>						<table border="1"> <tr> <td>1, 2</td> <td>Normal Closed</td> </tr> <tr> <td>3, 4</td> <td>Normal Open</td> </tr> </table>	1, 2	Normal Closed	3, 4	Normal Open																																															
	<table border="1"> <tr> <td>1, 2</td> <td>Normal Closed</td> </tr> <tr> <td>3, 4</td> <td>Normal Open</td> </tr> </table>	1, 2	Normal Closed	3, 4	Normal Open																																																				
1, 2	Normal Closed																																																								
3, 4	Normal Open																																																								

91MCE Series Limit Switch



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

91MCE Series Limit Switch

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