

14CE/914CE Series (Miniature Limit Switch)



Features

- Compact construction
- Pre-wired or connector versions
- Die-cast Zinc housing
- Wide selection of actuators
- Gang mounting capability
- Cable length variations
- Side and bottom exit cable/connector
- Simple two-screw mounting
- Low temperature variants
- Fluorocarbon (FC) Sealing option
- IP65/66/67

Benefits

- Suitable for applications where space is at a premium
- Fast and easy to install
- Suitable for difficult operating environments
- Application flexibility
- Multiple switching in small spaces
- Enhanced choice for application
- Suitable for aggressive environments

Description

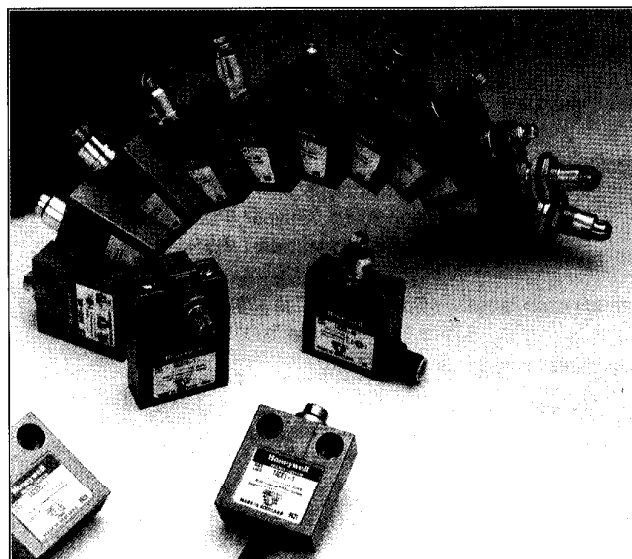
The entire range of 14CE and 914CE has been approved to meet the requirements of the Low Voltage directive and is therefore CE marked.

The 914CE is primarily intended for use in territories which expect UL and CSA listing and incorporates cable and construction per file number E41859 and LR15775 respectively. The main difference between the 914CE and the 14CE is that cable is measured in feet on the 914CE and in metres on 14CE.

The connectorised range of switches has proved to be extremely popular as a rapid replace option, particularly in applications where the cable run could be long and difficult to access and replace in application.

CE switches have different degrees of protection from IP65 to IP67 for the fully booted head styles. The option of fluorocarbon (FC) seals is available to customers who will apply the switches in harsh environments such as cutting fluid applications where fluorocarbon (fc) offers superior resistance to the harmful degrading effects of such fluids. Some of our most demanding OEMs have been successfully using these constructions in machinery for many years - a true test of the original design and the incorporation of fluorocarbon (FC) seals at critical points in the drive train. The cable entry is fully potted using a special compound to ensure that ingress is virtually impossible.

These miniature limit switches have served industry very well over several decades and are still one of the best switches on the market today.



Smart Distributed System Version

Certain 14CE listings are now available for connection to a Smart Distributed System machine control network through an interface containing the Smart Distributed System communication circuitry. This offers more device level diagnostics, allowing monitoring of critical operations and the prevention of problems.

The Smart Distributed System is an intelligent CAN bus based control network, open at the device and controller level, optimised for discrete machine control on the factory floor. It also offers PC based control that builds on the intelligence embedded in switches and sensors. For more information please contact your nearest Honeywell sales office.

| Snap Action Contact | Cable/Connector | Additional Options/ Codes |
|---|---|--|
| <div data-bbox="204 203 501 338"> <p>S.P.D.T GREEN/YELLOW BROWN 2 BLUE 1 BLACK 3 Circuit closed</p> </div> <div data-bbox="165 376 448 555"> <p>1</p> <p>F.P. 18.5 max O.P. 15.7 +/- 1.0 R.P. 0.1 max D.T.</p> <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> <div data-bbox="165 568 448 748"> <p>2</p> <p>F.P. 31.3 max O.P. 28.5 +/- 1.0 R.P. 0.1 max D.T.</p> <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> <div data-bbox="165 761 448 940"> <p>3</p> <p>F.P. 31.3 max O.P. 28.5 +/- 1.0 R.P. 0.1 max D.T.</p> <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> <div data-bbox="165 954 448 1133"> <p>16</p> <p>F.P. 0 Degrees O.P. 30 Degrees R.P. 3 max D.T.</p> <p>O.F. (max) = 7.85 Newtons/800 GMF R.F. (min) = 1.0 Newtons/100 GMF</p> </div> <div data-bbox="165 1146 448 1326"> <p>18</p> <p>F.P. 27.7 max O.P. 24.9 +/- 1.0 R.P. 0.1 max D.T.</p> <p>O.F. (max) = 22.5 Newtons/2300 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> <div data-bbox="165 1339 448 1518"> <p>31</p> <p>F.P. 37.2 max O.P. 34.4 +/- 1.0 R.P. 0.1 max D.T.</p> <p>O.F. (max) = 17.5 Newtons/1800 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> <div data-bbox="165 1532 448 1711"> <p>55</p> <p>F.P. 37.2 max O.P. 34.4 +/- 1.0 R.P. 0.1 max D.T.</p> <p>O.F. (max) = 17.5 Newtons/1800 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> | <p>Specify cable length in 1 metre increments e.g. 1 = 1 metre, 2 = 2 metre, etc. Maximum cable length available is 4 metres</p> <p>Cable Standard: 4 Core PVC sheathed, colour of sheath: Black</p> <p>Cable Option: 4 Core Silicone sheathed, colour of sheath: Brown (option code L)</p> <p>If option codes Q or Q1 are selected then omit the cable length code.</p> <div data-bbox="592 887 911 1088"> <p>Brad Harrison connector CAT. No.80466 M12 Thread</p> <p>OPTION Q</p> </div> <div data-bbox="592 1133 935 1335"> <p>Brad Harrison connector CAT. No.BG 12551 M12 Thread</p> <p>OPTION Q1</p> </div> <div data-bbox="647 1379 831 1402"> <p>CIRCUIT DIAGRAM</p> </div> <div data-bbox="624 1424 879 1760"> <p>S.P.D.T GREEN/YELLOW BROWN 2 BLUE 1 BLACK 3</p> </div> | <p>A : Side Exit Cable or Connector. B : Elongated Mounting Holes. D : Halogen Free Cable. G : Gold Contact Basic. H : High Temperature (0°C to +120°C). K : 'O' Ring Sealed Plunger.</p> <p>① When selecting this option it should be noted that this will increase the O.F. to 22.5 Newtons / 2300 GMF.</p> <p>L : Low Temperature (-40°C to +70°C). L1 : Low Temperature as 'L' except:- cable not suitable for flexing. Q : Brad Harrison Connector. M12 Micro DC type 4 pin. Q1 : Brad Harrison Connector. M12 Micro AC type 4 pin. V : Fluorocarbon (FC) Seal Material. P : Top Mounting Holes.</p> <p>Note: Multiple selection of code options is allowed. However, all coding permutations are not available or permissible. When using multiple codes, arrange them in alphabetical order. e.g. 14CE1-3AK.</p> <p>Note 1: Levers sold separately. See page 46 (Auxiliary actuators)</p> |

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914CE Series Miniature Enclosed Switch

Technical Data

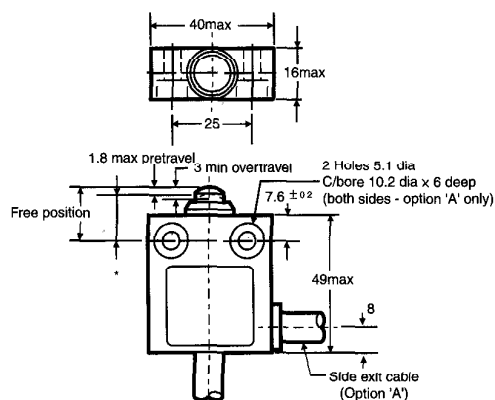
Mechanical life Up to 10 million operations.

Degree of protection 914CE
Standard type IP65
With option 'K' type IP66
With boot seal type IP67

Temperature range
Operating:
0°C to +105°C
(32°F to 221°F)

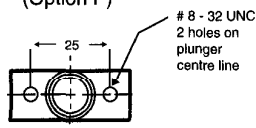
Approvals / standards
IEC947-5-1
EN60947-5-1
AC14 D300
DC13 R300
UL recognised, file E41859
CSA Certified, file LR15775

Electrical
According to IEC 947-5-1.
Rated insulation voltage $U_i = 250V$.
Rated impulse withstand voltage $U_{imp} = 1.5kV$.
Not suitable for isolation.
SCPD, Quick blow fuse to IEC 127
suitable for rated current.

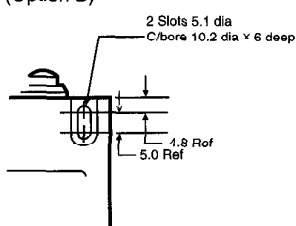


Cable Type
914CE type: 4 x 0.75 mm² SJTO (UL Approved)

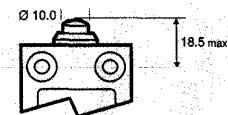
**Top Mounting
(Option P)**



**Elongated Mounting Holes
(Option B)**

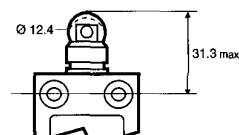


Actuator Types



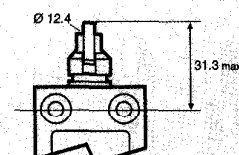
1

Pin Plunger



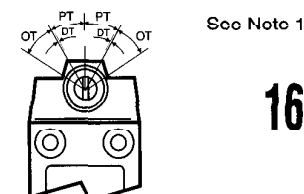
2

Roller Plunger (Parallel)



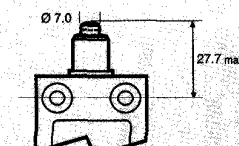
3

Roller Plunger (Perpendicular)



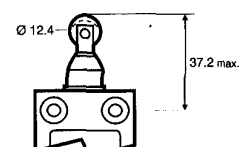
16

Rotary action / lever



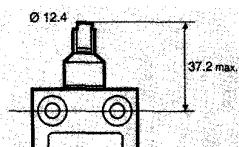
18

Pin Plunger (Boot Sealed)



31

Roller Plunger Parallel (Boot Sealed)



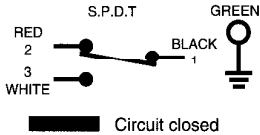
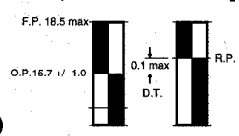
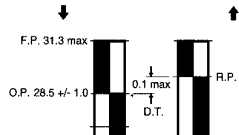
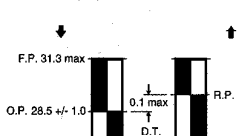
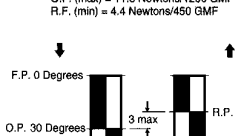
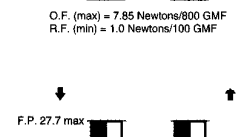
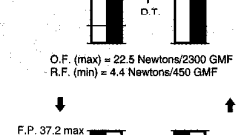
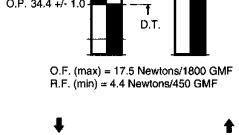
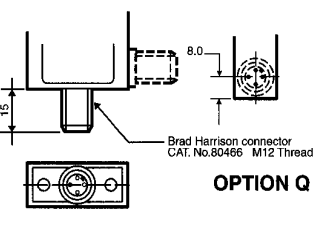
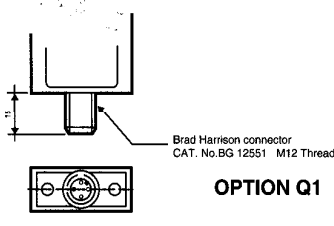
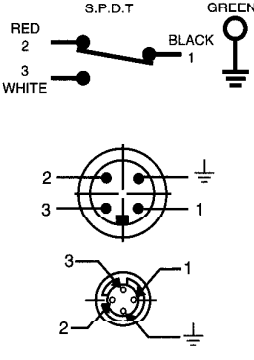
55

Roller Plunger Perpendicular (Boot Sealed)

Ordering Guide:

914 CE

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| Snap Action Contact  | Cable/Connector | Additional Option Codes |
|--|--|---|
| <div> <div> <div>1</div> <div>  <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> <div> <div>2</div> <div>  <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> <div> <div>3</div> <div>  <p>① O.F. (max) = 11.8 Newtons/1200 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> <div> <div>16</div> <div>  <p>O.F. (max) = 7.85 Newtons/900 GMF R.F. (min) = 1.0 Newtons/100 GMF</p> </div> </div> <div> <div>18</div> <div>  <p>O.F. (max) = 22.5 Newtons/2500 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> <div> <div>31</div> <div>  <p>O.F. (max) = 17.5 Newtons/1800 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> <div> <div>55</div> <div>  <p>O.F. (max) = 17.5 Newtons/1800 GMF R.F. (min) = 4.4 Newtons/450 GMF</p> </div> </div> </div> | <p>Specify cable lengths in 3 feet increments eg. 3=3 feet, 6=6 feet, etc. Maximum cable length is 12 feet.</p> <p>Cable Standard: SJTO 4 Core PVC sheathed, colour of sheath: Grey</p> <p>If option codes Q or Q1 are selected then omit the cable length code.</p> <div>  <p>OPTION Q</p> </div> <div>  <p>OPTION Q1</p> </div> <p>CIRCUIT DIAGRAM</p>  | <p>A : Side Exit Cable or Connector. B : Elongated Mounting Holes. G : Gold Contact Basic. K : 'O' Ring Sealed Plunger.</p> <p>① When selecting this option it should be noted that this will increase the O.F. to 22.5 Newtons / 2300 GMF.</p> <p>L1 : Low Temperature as 'L' except:- cable not suitable for flexing. Q : Brad Harrison Connector. M12 Micro DC type 4 pin. Q1 : Brad Harrison Connector. M12 Micro AC type 4 pin. V : Fluorocarbon (FC) Seal Material. P : Top Mounting Holes.</p> <p>Note: Multiple selection of code options is allowed. However, all coding permutations are not available or permissible. When using multiple codes, arrange them in alphabetical order. e.g. 914CE1-3AK.</p> <p>Note 1: Levers sold separately. See page 46 (Auxiliary actuators)</p> |

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