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Honeywell

# MICRO SWITCH™
# Compact Precision Limit Switches
## 14CE Series

Datasheet

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# MICRO SWITCH™ 14CE Series
# Compact Precision Limit Switches

All MICRO SWITCH™ 14CE Series compact enclosed switches incorporate fluorocarbon diaphragm sealing to provide reliable protection, meeting IP65, IP66, IP67, and IP68 as well as NEMA 1, 2, 3, 3R, 4, 6, 6P, and 13 requirements. Versions with a boot seal also meet NEMA 12 requirements (dust, falling dirt, liquid media with solid contaminates). The cable or connector and basic switch terminals are encapsulated in an epoxy sealant, offering excellent resistance in harsh environments. For low temperature applications (down to -40 °C, -40 °F), CE Series switches can be supplied with low temperature seals and lubricant.

The CE Series switches are rugged and versatile switches which can be applied indoors in many harsh factory floor applications, as well as on outdoor equipment in extreme temperatures. A full range of actuators are available, including plain plungers, roller plungers, side rotary, multi-directional wire, and manually operated. The switches are also available with the industry standard, M12 micro-change 4-pin connector. MICRO SWITCH™ 14CE products meet worldwide CE requirements.

## *What makes our switches better?*

- Compact construction for minimal real estate on equipment
- Gang mounting capability to provide a multi-plunger limit switch
- Rugged, die-cast zinc housing for demanding environments
- Variety of cable length options and choice of side or bottom exit cable/connector for design flexibility
- Functionality over a wide temperature range with factory sealed connectors or wiring

## *Big performance in a little package.*

CUSTOMIZATION • COMPACT
HIGH PERFORMING • DURABILITY



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# Features and Benefits

## RUGGED, COMPACT CONSTRUCTION

MICRO SWITCH™ 14CE Series limit switches' compact construction requires **minimal real estate on equipment.** Consistent performance is delivered in many demanding environments where petroleum, synthetic or water based fluids are present. Its die-cast zinc housing and fluorocarbon diaphragm seal maintain a tightly sealed, IP65/66/67/68 and NEMA 1, 2, 3, 3R, 4, 6, 6P, 12 (boot seal), 13 rugged package.

## *Gang-mounting option*

## CUSTOMIZATION

Switches are **pre-leaded** (harmonized CENELEC cable) or supplied with a **M12 four-pin connector** to decrease installation time. 14CE Series' wide selection of actuators **minimize installation or time issues.** Cable length variations are available for equipment requiring different cable lengths with side and bottom exit cable/connector options for equipment flexibility.

## COMPACT DESIGN

Rugged, compact switch designed with the common **25 mm mounting centers**. The 14CE Series is engineered with MICRO SWITCH™ SM switches for **consistent, precise actuation.**

## *High performance switch for small spaces*

## LONG LIFE

Mechanical life up to five million cycles for wobble actuators, and up to ten million cycles for all other actuators delivers **long-lasting performance.**

## DESIGN FLEXIBILITY

Gang mounting capability provides a **multi-plunger limit switch option. Low temperature variants** are available for indoor and outdoor applications.

## GLOBAL APPLICATIONS

MICRO SWITCH™ 14CE limit switches have **CE** approval for world-wide use.



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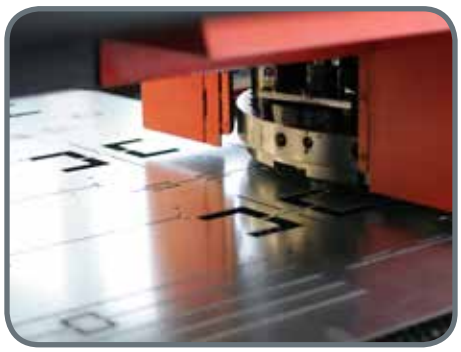
# Potential Applications



## MACHINE TOOLS

Detects tool and piece part location on CNC and other machining equipment

## OFF-ROAD EQUIPMENT

Used as a cab door switch on crane booms

## MATERIAL HANDLING

Used in forklifts and dock locks for trucks and trailers, and vehicle wash systems

## ACCESS AND MOBILITY SOLUTIONS

Often used on vehicle wheelchair lifts and stairway lifts

## TEXTILE MACHINERY

Senses roll size, tensioning, and other functions

## ROBOTICS

Controls arm movement limits

## PACKAGING EQUIPMENT

Often used on stretch pallet wrapping equipment

## PRINT TRADE MACHINERY

Senses roll size, tensioning, along with controlling gates and panels

## AGRICULTURAL MACHINERY

Used on grain and livestock equipment



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# MICRO SWITCH™ Compact Precision Limit Switches

**Table 1. Specifications**

| Characteristic | Parameter |
|---|---|
| Description | compact enclosed limit switch |
| Actuators | • Top pin plunger (14CE1-)<br>• Cross roller plunger (14CE3-)<br>• Top pin plunger with boot seal (14CE18-)<br>• Wobble (14CE20-)<br>• Top pin plunger, panel mount (14CE27-)<br>• Top roller plunger, parallel and panel mount (14CE28-)<br>• Top roller plunger, perpendicular, panel mount (14CE29-)<br>• Top roller plunger, parallel and boot sealed (14CE31-)<br>• Top roller plunger, perpendicular, boot seal (14CE55-)<br>• Parallel roller plunger (14CE2-)<br>• Front rotary (14CE16-)<br>• Top adjustable plunger (14CE19-)<br>• Manually operated (14CE22-)<br>• Ball bearing plunger (14CE66-) |
| Terminations | Harmonized CENELEC PVC sheathed 4 x 0,75 $mm^2$ (18 AWG) cable<br>Connector (dc), 4-pin male, M12 thread (-Q)<br>Connector (ac), 4-pin male, 1/2 in x 20 thread (-Q1) |
| Switching options | SPDT, snap action contacts (1NC/1NO) |
| Sealing | IP65, IP66, IP67, IP68<br>NEMA 1, 2, 3, 3R, 4, 6, 6P, 12 (boot seal), 13 |
| Operating temperature | 0 °C to 70 °C [32 °F to 158 °F]; optional -40 °C to 70 °C [-40 °F to 158 °F] |
| Mechanical life | up to 10 million<br>up to 5 million (wobble actuators) |
| Thermal current | 1 A, 3 A, 5 A (depending upon model) |
| Rated insulation voltage (Ui) | 250 V |
| Rated impulse withstand voltage (Uimp) | 1.5 kV |
| Pollution degree | 3 |
| Min. actuation speed | 0.003 m/s |
| Max. actuation speed | 0.1 m/s |
| Max. actuation frequency | ac – 200 Hz; dc – 20 Hz |
| Shock | 50 g – IEC68-2-27 |
| Vibration | 10 G – IEC68-2-6 |
| Approvals | CE |
| Conforming to standards | IEC947-5-1, EN 60947-5-1; AC14 D300, DC13 R300 |

**Table 2. Electrical Ratings (in amperes)**

| Model example | Contacts | Rating |
|---|---|---|
| 14CE_-_ | Silver contacts | A |
| 14CE_-_**G** | Gold contacts | B |
| 14CE_**-Q**, **-AQ, -AQ1** | Silver contacts | C with 4-pin connector |

| Rating code | Electrical Rating | Make | Break |
|---|---|---|---|
| A | 240 Vac, ind. | 1.2 | 0.2 |
| | 240 Vac, res. | 5 | 5 |
| | 28 Vdc, res. | 3 | 3 |
| | 28 Vdc, ind. | 3 | 3 |
| | 5 A, 1/10 HP, 125 Vac or 250 Vac | – | – |
| B | 1 A res., 0.5 A ind., 30 Vdc<br>1 A, 125 Vac | – | – |
| C | 3 A, 125 Vac or 250 Vac | – | – |



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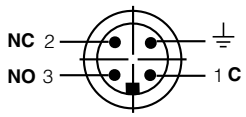
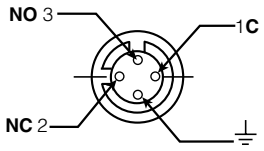
# 14CE Series

## SWITCHING AND LEAD IDENTIFICATION

**14CE**

1 = Common
2 = Normally Closed
3 = Normally Open

## PINOUTS

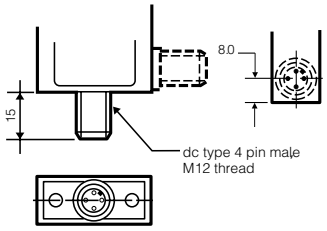
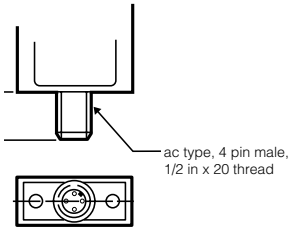
| Connector - (dc) (-Q) | Connector (ac) (-Q1) |
|---|---|
|  |  |





## CONNECTOR VERSIONS

The 14CE Series is available with a 4-pin, M12 size connector in both bottom and side exit versions.

| -Q Version | -Q1 Version |
|---|---|
|  |  |





## MOUNTING

MICRO SWITCH™ 14CE Series switches are mounted by using two M5 screws. The mounting holes are counter bored to keep the screw heads within the overall switch housing dimensions.

## GANG MOUNT CAPABILITY

The housing on the 14CE Series has been designed to enable the user to build his own multiple plunger switch by gang mounting several switches. All pin plunger and roller plunger types are suitable for gang mounting. There is a 16 mm distance between the plungers. Both Series are very versatile that even a lever-type version could be added at the end of the row.

## BOTTOM EXIT OR SIDE EXIT ORIENTATION

The CE Series has been designed with a pre-wired cable or connector fitted in the bottom of the switch housing. Other variations are available with a side-exit cable or connector.

## GOLD CONTACT VERSIONS

For low energy applications (up to 30 Vdc, 1 A), gold contact versions of the 14CE switches can be supplied upon request.



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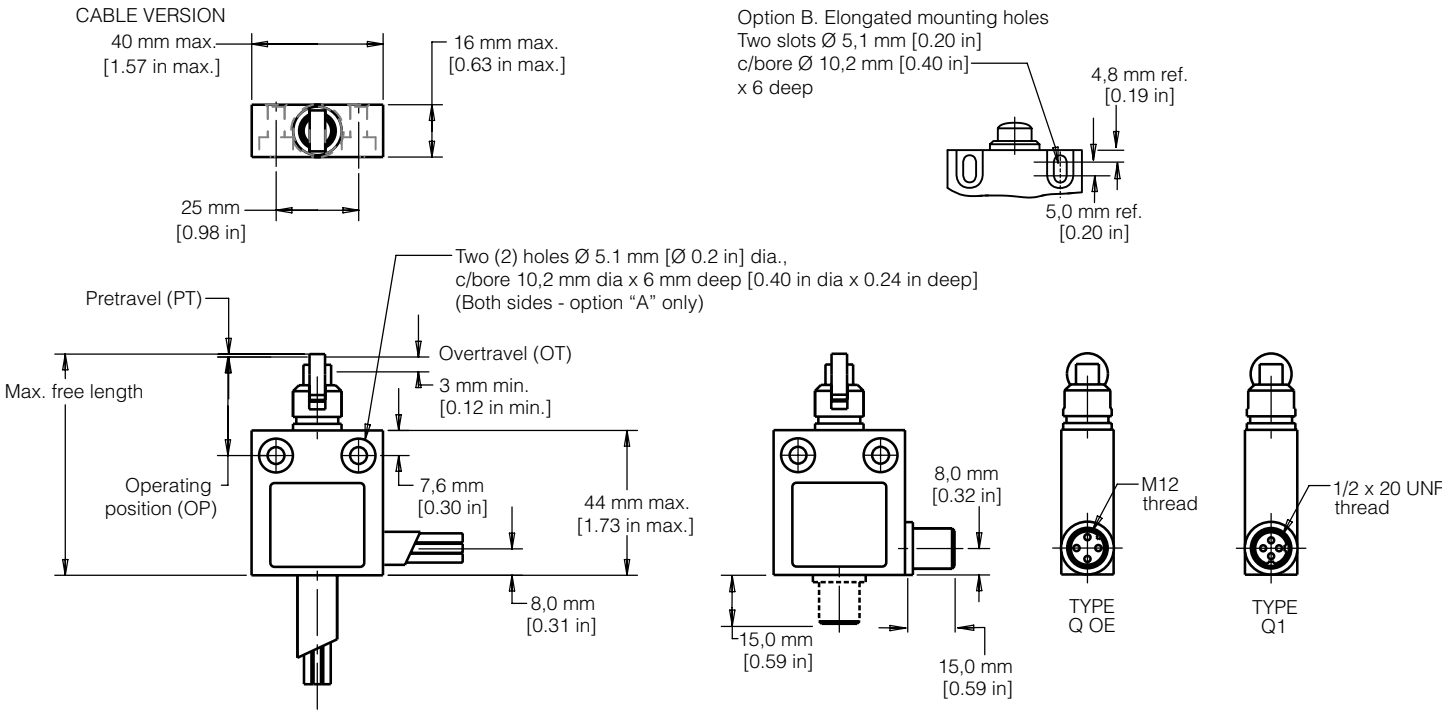
# MICRO SWITCH™ Compact Precision Limit Switches

## GENERAL DIMENSIONS • ALL SWITCHES




## PRODUCT NOMENCLATURE

**14CE** – **16** – **3**

### Switch Type

**14CE** Series Compact Precision Limit Switch

### Actuator Type

| | | | |
|---|---|---|---|
| **1** | Top pin plunger | **22** | Manually oper. nylon button |
| **2** | Top roller plunger, parallel | **27** | Top pin plunger panel mount |
| **3** | Top roller plunger, perp. | **28** | Top roller plunger, parallel panel mount |
| **16** | Front rotary | **29** | Top roller plunger, perp. panel mount |
| **18** | Top pin plunger w/ boot seal | **31** | Top roller plunger, parallel boot seal |
| **19** | Top adjustable pin plunger | **55** | Top roller plunger, perp. boot seal |
| **20** | Coil wobble | **66** | Top ball bearing plunger |

### Cable Length

| | |
|---|---|
| **1** | 1 meter |
| **2** | 2 meters |
| **3** | 3 meters |
| **4** | 4 meters |
| **5** | 5 meters |

### Options[1,2]

| | |
|---|---|
| **A** | Side entry |
| **B** | Elongated mounting holes |
| **D** | Halogen-free cable |
| **G** | Gold contacts |
| **H** | High temp., 150 °C |
| **L** | Low temp., -40 °C switch and cable |
| **L1** | Low temp. -40 °C, cable not for flexing |
| **P** | Top mounting |
| **V** | Fluorocarbon seals/gasket (front rotary only) |

Bottom exit is standard.

### Connectors (micro type)

| | |
|---|---|
| **Q** | dc type single keyway 4-pin male, M12 |
| **Q1** | ac type two keyways 4-pin male, 1/2-20 |

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

[1]More than one option may be permissible.

[2]**OPTION K to be discontinued.** Replaced with fluorocarbon diaphragm seal, standard switch.
[2]**OPTION KV to be discontinued.** Replaced with fluorocarbon diaphragm seal, standard switch.



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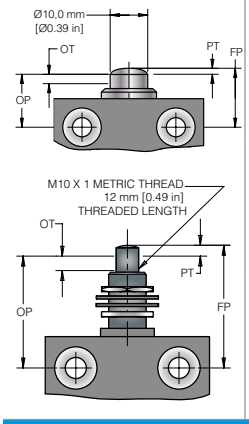
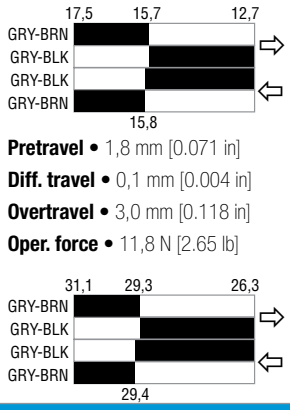
# 14CE Series

## PRODUCT SPECIFICATIONS AND LISTINGS

*Contact your Honeywell rep or distributor for additional listings*

### 14CE1 • Pin Plunger
### 14CE27 • Pin Plunger Panel Mount

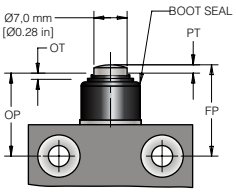


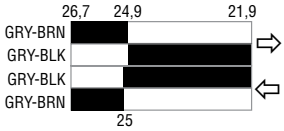




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 11,8 N [2.65 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 17,5 mm [0.69 in] | 15,7 mm [0.62 in] | – | **14CE1-1** |
| Gold | B | Bottom | 17,5 mm [0.69 in] | 15,7 mm [0.62 in] | Gold-plated contacts | **14CE1-1G** |
| Silver | A | Side | 17,5 mm [0.69 in] | 15,7 mm [0.62 in] | Side exit cable | **14CE1-1A** |
| Silver | C | Bottom | 17,5 mm [0.69 in] | 15,7 mm [0.62 in] | dc-type connector | **14CE1-Q** |
| Silver | A | Bottom | 31,1 mm [1.23 in] | 29,3 mm [1.15 in] | Panel mount | **14CE27-1** |

### 14CE18 • Boot Sealed Pin Plunger

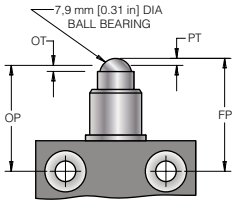


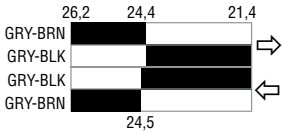




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 22,5 N [5.06 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 26,7 mm [1.05] | 24,9 mm [0.98 in] | – | **14CE18-1** |
| Silver | A | Side | 26,7 mm [1.05] | 24,9 mm [0.98 in] | Side exit cable | **14CE18-1A** |
| Silver | C | Bottom | 26,7 mm [1.05] | 24,9 mm [0.98 in] | dc-type connector | **14CE18-Q** |

### 14CE66 • Ball Bearing Plunger




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 11,8 N [2.65 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 26,2 mm [1.03 in] | 24,4 mm [0.96 in] | – | **14CE66-1** |
| Silver | A | Side | 26,2 mm [1.03 in] | 24,4 mm [0.96 in] | Side exit cable | **14CE66-1A** |

[1] Page 5 for electrical codes

Note: Most part numbers are shown with 1 meter of cable. The -X indicates the number of meters of cable provided: 2-meters, 3-meters, 4-meters, and 5-meters. Custom lengths are also available.



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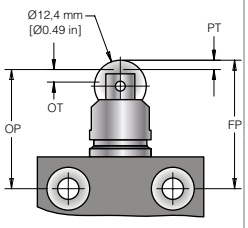
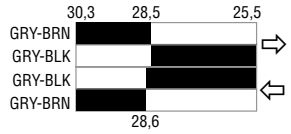
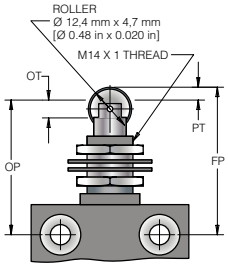
# MICRO SWITCH™ Compact Precision Limit Switches

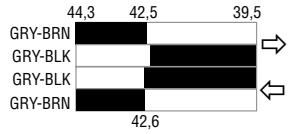
## 14CE2 • Roller Plunger
## 14CE28 • Roller Plunger Panel Mount



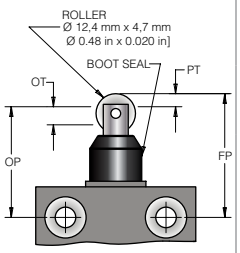

**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 11,8 N [2.65 lb]

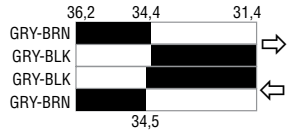



| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | – | **14CE2-1** |
| Gold | B | Bottom | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | Gold-plated contacts | **14CE2-1G** |
| Silver | C | Bottom | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | dc-type connector | **14CE2-Q** |
| Silver | A | Side | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | Side exit cable | **14CE2-1A** |
| Silver | A | Bottom | 44,3 mm [1.75 in] | 42,5 mm [1.67 in] | Panel mount, 2 m cable | **14CE28-2** |

## 14CE31 • Boot Sealed Roller Plunger

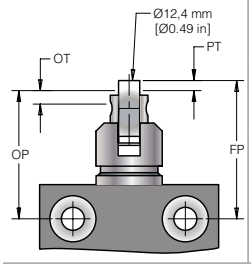


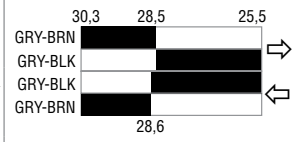




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 17,5 N [3.93 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 36,2 mm [1.43 in] | 34,4 mm [1.36 in] | – | **14CE31-1** |
| Silver | A | Bottom | 36,2 mm [1.43 in] | 34,4 mm [1.36 in] | Fluorocarbon seals, 6 m cable | **14CE31-6V** |

## 14CE3 • Cross Roller Plunger




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 11,8 N [2.65 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | – | **14CE3-1** |
| Silver | A | Side | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | 3 m of cable, side exit | **14CE3-3A** |
| Silver | C | Bottom | 30,3 mm [1.19 in] | 28,5 mm [1.12 in] | dc-type connector | **14CE3-Q** |

[1] Page 5 for electrical codes

Note: Most part numbers are shown with 1 meter of cable. The -X indicates the number of meters of cable provided: 2-meters, 3-meters, 4-meters, and 5-meters. Custom lengths are also available.



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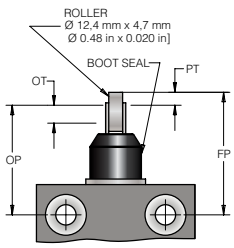
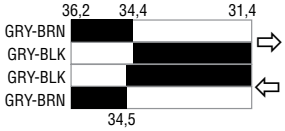
# 14CE Series

## 14CE55 • Boot Sealed Cross Roller Plunger

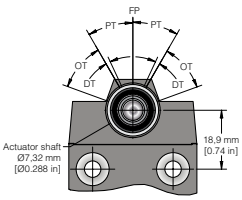


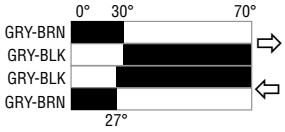




**Pretravel** • 1,8 mm [0.071 in]
**Diff. travel** • 0,1 mm [0.004 in]
**Overtravel** • 3,0 mm [0.118 in]
**Oper. force** • 17,5 N [3.93 lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | 36,2 mm [1.43 in] | 34,4 mm [1.36 in] | 3 meters of cable | **14CE55-3** |

## 14CE16 • Side Rotary

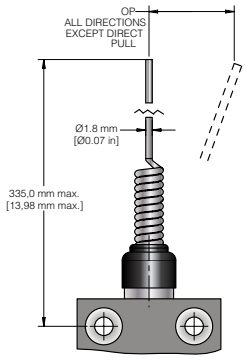


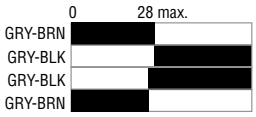




**Pretravel** • 30°
**Diff. travel** • 3°
**Overtravel** • 40°
**Oper. force** • 0,34 Nm [3 in-lb]

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | – | – | | **14CE16-1[2]** |
| Gold | B | Bottom | – | – | Gold-plated contacts, 3 meters of cable | **14CE16-3G[2]** |
| Silver | C | Bottom | – | – | dc-type connector | **14CE16-Q[2]** |

## 14CE20 • Random Motion Wire Actuator Wobble




**Oper. position** • 28 mm [1.10 in] max.
**Oper. force** • 0,55 N [0.12 lb] max.

| Contacts | Elec Rating[1] | Cable Exit | Free Position (FP) | Operating Position (OP) | Options | Listing |
|---|---|---|---|---|---|---|
| Silver | A | Bottom | – | 28 mm [1.10 in] max. | – | **14CE20-1** |

[1] Page 5 for electrical codes

[2] Switch operates on clockwise and counterclockwise rotation of lever shaft

Note: Most part numbers are shown with 1 meter of cable. The -X indicates the number of meters of cable provided: 2-meters, 3-meters, 4-meters, and 5-meters. Custom lengths are also available.



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# MICRO SWITCH™ Compact Precision Limit Switches

**This Honeywell datasheet supports the following MICRO SWITCH™ 14CE Series Limit Switch Listings**

14CE1-1
14CE1-1A
14CE1-1G
14CE1-1K
14CE1-2
14CE1-2B
14CE1-2G
14CE1-2L
14CE1-3
14CE1-3A
14CE1-3AH
14CE1-3AK
14CE1-3AKV
14CE1-3AL
14CE1-3DG
14CE1-3G
14CE1-3K
14CE1-4
14CE1-5
14CE1-5K
14CE1-5KV
14CE1-6
14CE16-1
14CE16-10
14CE16-1H
14CE16-2
14CE16-3
14CE16-3G
14CE16-4
14CE1-6KV
14CE16-Q
14CE1-7
14CE18-1
14CE18-15A
14CE18-1A
14CE18-1L
14CE18-3
14CE18-6
14CE18-6A
14CE18-6AH
14CE18-Q
14CE1-9A
14CE1-AQ
14CE1-Q
14CE20-1
14CE20-3
14CE20-6
14CE20-8
14CE2-1
14CE2-10
14CE2-1A
14CE2-1G
14CE2-1K
14CE2-1L
14CE2-2
14CE2-20
14CE2-2A
14CE2-2B
14CE2-2-D
14CE2-2K
14CE2-2KV
14CE2-3
14CE2-3A
14CE2-3AH
14CE2-3D
14CE2-3G
14CE2-3K
14CE2-3KV
14CE2-4
14CE2-4
14CE2-5
14CE2-5KV
14CE2-6
14CE2-6KV
14CE27-1
14CE2-7A
14CE28-2
14CE2-AQ
14CE2-Q
14CE3-1
14CE3-10
14CE31-1
14CE31-10A
14CE31-2L
14CE31-3
14CE31-4A
14CE31-6
14CE316V
14CE3-1K
14CE3-1L
14CE3-1L1
14CE31-L1
14CE3-2
14CE3-3
14CE3-3A
14CE3-3AH
14CE3-3K
14CE3-3KV
14CE3-4AG
14CE3-6
14CE3-GLQ
14CE3-Q
14CE55-3
14CE66-1
14CE66-1A
14CE66-2
14CE66-4A



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## ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell Web site at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Product nomenclature tree
- Product application-specific information
  - Limit and enclosed switches application information
  - Limit and enclosed switches operating characteristics
  - Limit and enclosed switches reference standards
  - Limit and enclosed switches typical applications
  - Product flyer: CE Family Miniature Limit Switches

**⚠WARNING**

**PERSONAL INJURY**

**DO NOT USE** these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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

**⚠WARNING**

**MISUSE 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.**

## WARRANTY/REMEDY

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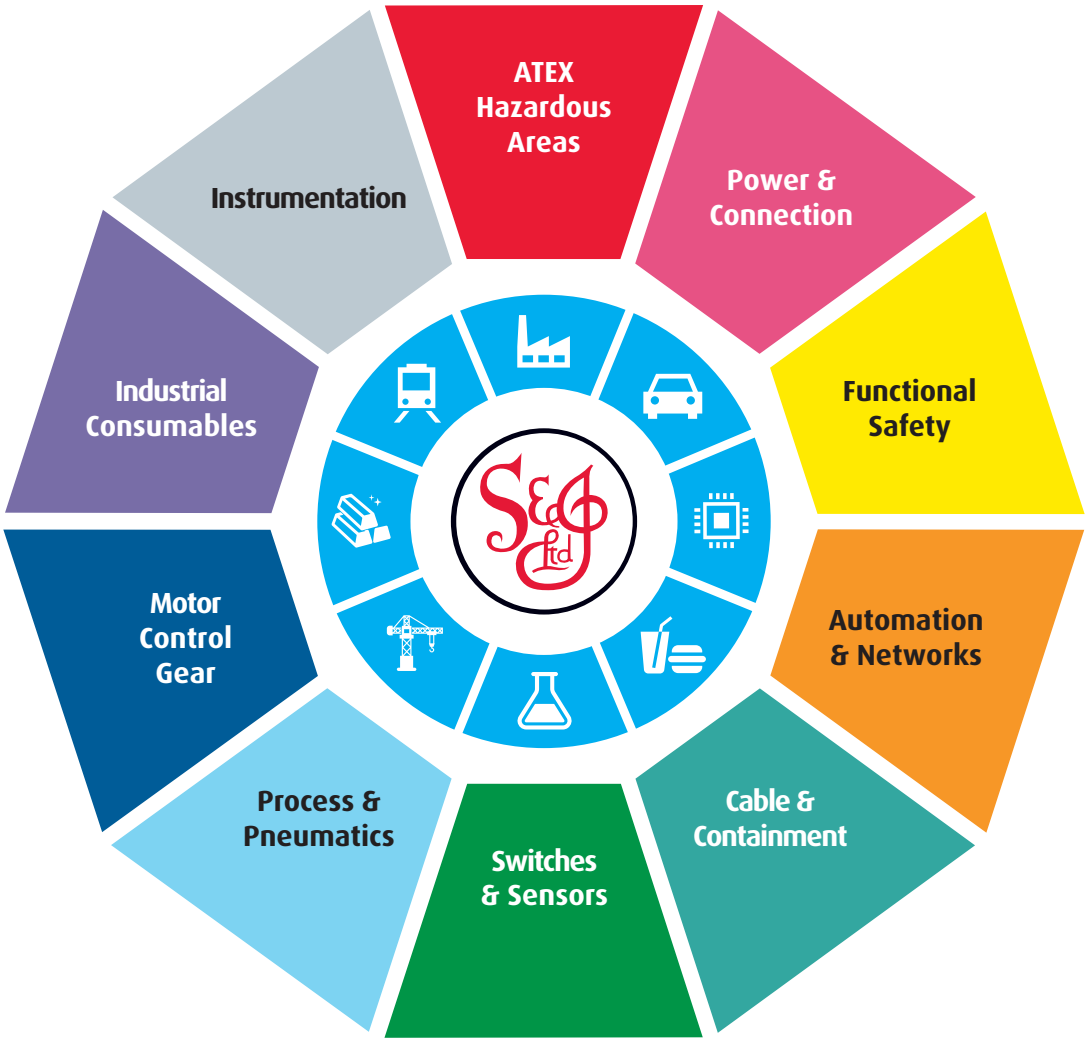


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