

## DESCRIPTION

All MICRO SWITCH 914CE Series miniature precision switches incorporate fluorocarbon diaphragm sealing to provide reliable protection, meeting NEMA 1, 2, 3, 3R, 4, 6, 6P, and 13, as well as IP66, IP67, and IP68 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 $-40^{\circ} \mathrm{C},-40^{\circ} \mathrm{F}$ ), 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 pin 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 914CE products meet North American, cURus standards, as well as European CE and United Kingdom UKCA requirements.

## FEATURES

- Rugged, miniature construction means minimal real estate on equipment
- NEMA 1, 2, 3, 3R, 4, 6, 6P, 12 (boot seal), 13, and IP66/67/68 environmental sealing
- Pre-leaded (UL cable) or supplied with a M12 four-pin connector
- Wide selection of actuators and cable length variations with side and bottom exit cable/connector options
- 25 mm mounting centers engineered with a MICRO SWITCH SM switch for consistent, precise actuation
- Well suited for up to 10 million actuation cycles (Up to 5 million actuation cycles for wobble actuators)
- Gang mounting capability to provide a multi-plunger limit switch
- Low temperature variants available for indoor and outdoor applications
- cURus, CE approvals for world-wide use
- UKCA approval for United Kingdom use


## POTENTIAL APPLICATIONS

- Machine tools
- Off-road equipment
- Material handling
- Dock locks and dock levelers
- Access and mobility solutions
- Textile machinery
- Robotics
- Packaging equipment
- Commercial appliances
- Print trade machinery
- Agricultural machinery


## VALUE TO CUSTOMERS

- Big performance in a small package
- Delivers consistent performance in many demanding environments where petroleum, synthetic, or water based fluids are present
- Product variation within defined nomenclature


## DIFFERENTIATION

- Diaphragm seal between the actuator and the switch cavity for high performance sealing
- CE Series incorporates a MICRO SWITCH SM basic switch for consistent, precise actuation
- Side exit termination for space constraints

PORTFOLIO
The 914CE Series is part of the 14CE, NGC, SZL-VL-S, SSCE and SL1 Series of miniature
limit switches. Honeywell also offers a portfolio of MICRO SWITCH

## MICRO SWITCH MINIATURE PRECISION LIMIT SWITCHES, 914CE SERIES



SWITCHING AND LEAD IDENTIFICATION
SPDT 914CE

## PINOUTS

Connector-(dc) (-Q) Connector (dc) (-Q2)

## CONNECTOR VERSIONS

The 914CE Series is available with a 4-pin, M12 size connector in both bottom and side exit versions.


## MOUNTING

MICRO SWITCH 914CE Series switches are mounted by using two M5 or \#10 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 914CE 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 types 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 fitted in the bottom of the switch housing. Other variations are available with a side exit cable.

## GOLD CONTACT VERSIONS

For low energy applications, gold contact versions of the 914CE switches can be supplied upon request.

## MICRO SWITCH MINIATURE PRECISION LIMIT SWITCHES, 914CE SERIES

## GENERAL DIMENSIONS • ALL SWITCHES



PRODUCT NOMENCLATURE


Switch Type
914CE Series
Small 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. | plunger, paralle panel mount |
| 16 | Side rotary | Top roller <br> 29 plunger, perp panel moun |
| $1$ | Top pin plunger w/ boot seal | Top roller <br> 31 plunger, paralle boot seal |
| 19 | Top adjustable pin plunger | Top rolle <br> 55 plunger, perp. boot seal |
| 20 | Coil wobble | $\mathbf{6 6} \begin{aligned} & \text { plunger bearing } \end{aligned}$ |


| Cable Length* |  | Options ${ }^{1}$ | Connectors* |  |
| :---: | :---: | :---: | :---: | :---: |
| 3 3feet | A | Side entry | Q | dc type single keyway |
| 66 feet | G | Gold <br> contacts | Q1 | ac type two keyways |
| 9 9feet | P | Top <br> mounting | Q2 | dc type optional pin-ou |
| $12^{12 \text { feet }}$ | L1 | Low temp. - 00 Co, cable not for flexing |  |  |
| 1515 feet | V |  |  |  |
|  | Bottom exit is standard. |  |  |  |

NOTE: not all combinations of model codes are available.
Please contact your Honeywell provider/representative for assistance.
*Select "Cable Length" or "Connectors".
${ }^{1}$ More than one option may be permissible.

## MICRO SWITCH MINIATURE PRECISION LIMIT SWITCHES, 914CE SERIES

## PRODUCT SPECIFICATIONS AND LISTINGS

Contact your Honeywell rep or distributor for additional listings



## MICRO SWITCH MINIATURE PRECISION LIMIT SWITCHES, 914CE SERIES



## MICRO SWITCH MINIATURE PRECISION LIMIT SWITCHES, 914CE SERIES

| 914CE | - Sid | tary | Contacts | Elec Rating | Cable/ Connector Position | Free Position (FP) | Operating Position (OP) | Options | Listing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Silver | A | Bottom | - | - | - | 914CE16-3 ${ }^{1}$ |
|  |  |  | Silver | A | Side | - | - | - | 914CE16-3A ${ }^{1}$ |
|  |  |  | Silver | C | Bottom | - | - | ac-type, two keyways | 914CE16-Q1 ${ }^{1}$ |
|  |  |  | Silver | C | Bottom | - | - | dc-type, single keyway | 914CE16-Q ${ }^{1}$ |
|  |  |  | Silver | C | Side | - | - | ac-type, two keyways | $\begin{gathered} \text { 914CE16- } \\ \text { AQ1 }^{1} \end{gathered}$ |

${ }^{1}$ Switch operates on clockwise and counterclockwise rotation of lever shaft
Note: part numbers are shown with 3 ft of cable. The $-X$ indicates the number of feet of cable provided. 6-foot, 9-foot, and 12 -foot lengths along with custom lengths, are also available.

## TABLE 3. LEVERS FOR 914CE16 SERIES SIDE ROTARY SWITCHES



## 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.

## $\triangle$ 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.

## 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 or the nearest Authorized Distributor, visit our website or call:

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