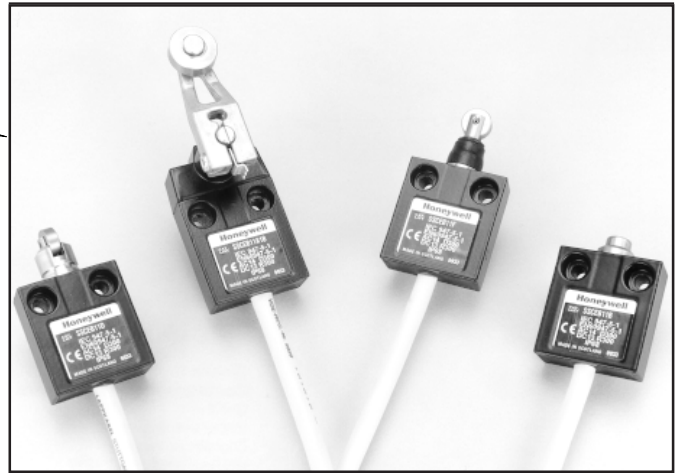


## Super sealed CE Miniature limit switch



### Features

- Fully sealed - capable of working when submerged
- Compact construction
- Pre-wired or connector versions
- Die-cast zinc housing
- Wide selection of actuators
- Gang mounting capability
- Variable length PUR cable
- Side and bottom exit cable/connector
- Simple two-screw mounting
- IP66/67, IP68 sealing

### Benefits

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

### Description

The Super sealed CE Series Miniature limit switch has been designed for reliability in the harshest of environments. Its robust design, corrosion limiting features, flexible PUR cable and super sealing allows it to operate fully submerged in a range of fluids. Its small size allows operation in confined spaces. A range of different actuators offers flexibility in application.

### Low energy switching

In today's demanding age of low energy controls, electromechanical switches are frequently used in interface directly with PLCs and other low energy devices. To accommodate this requirement Super sealed CE offers a gold plated contact version of the standard basic switch. This improves reliability of switching at low currents and voltages by protecting the contact surfaces from contamination during operation or storage prior to use. Standard silver contacts have the disadvantage in that the contact may tarnish under certain environmental conditions, e.g. in the presence of moisture.

Low energy basic switches are rated as follows:

Operating Voltage  $U_e$  1 to 50 Vac or Vdc

Operating Current  $I_e$  1 to 100 mA

### Electrical rating

|                                    |      | IEC947-5-1 / EN60947-5-1                                               |      |      |      |      |      |           |       |
|------------------------------------|------|------------------------------------------------------------------------|------|------|------|------|------|-----------|-------|
| Designation & Utilization Category |      | Rated operational current $I_e$ (A) at rated operational voltage $U_e$ |      |      |      |      |      | VA rating |       |
|                                    |      | 120V                                                                   | 240V | 380V | 480V | 500V | 600V | Make      | Break |
| AC15                               | A600 | 6                                                                      | 3    | 1.9  | 1.5  | 1.4  | 1.2  | 7200      | 720   |
| AC15                               | A300 | 6                                                                      | 3    | -    | -    | -    | -    | 7200      | 720   |
| AC15                               | B300 | 3                                                                      | 1.5  | -    | -    | -    | -    | 3800      | 360   |
| AC14                               | D300 | 0.6                                                                    | 0.3  | -    | -    | -    | -    | 432       | 72    |
|                                    |      | 125V 250V                                                              |      |      |      |      |      |           |       |
| DC13                               | Q300 | 0.55                                                                   | 0.27 |      |      |      |      | 69        | 69    |
| DC13                               | R300 | 0.22                                                                   | 0.1  |      |      |      |      | 28        | 28    |

### ! WARNING

#### MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

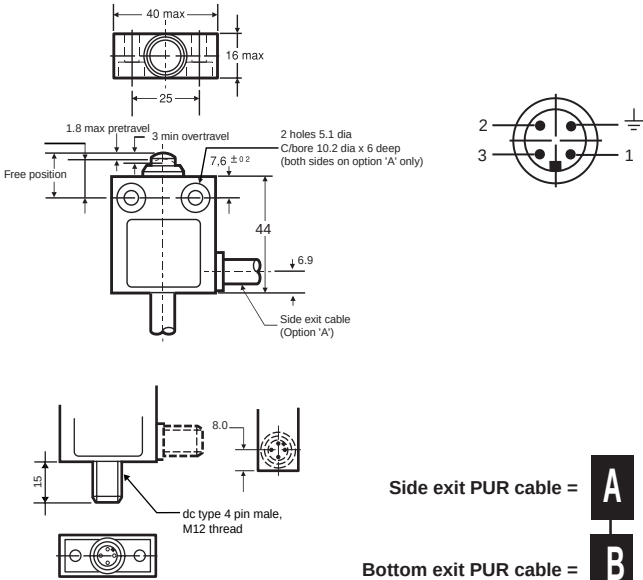
**Failure to comply with these instructions could result in death or serious injury.**

# Super sealed CE Series

## Miniature enclosed switch

### Technical Data

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| Mechanical life      | up to 10 million operations                                                                 |
| Degree of protection | IP66/67, IP68                                                                               |
| Temperature range    | Operating: -40 °C to +90 °C<br>(-40 °F to +194 °F)                                          |
| Approvals/standards  | IEC 60947-5-1<br>EN 60947-5-1<br>AC14 D300<br>DC13 R300                                     |
| Electrical           | Not suitable for isolation.<br>SCPD, Quick blow fuse to IEC 127 suitable for rated current. |
| Shock                | 50 g conforming to IEC 68-2-27                                                              |
| Vibration            | 10 g conforming to IEC 68-2-6                                                               |



### Ordering Guide:

|             |          |          |          |
|-------------|----------|----------|----------|
| <b>SSCE</b> | <b>X</b> | <b>X</b> | <b>X</b> |
|-------------|----------|----------|----------|

| Cable/connector                                                                                                                                                                                                                                                        | Switch type<br>Snap action contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <p><b>Connector</b></p> <p><b>0</b></p> <p>If cable option is required, specify cable length in 1 metre increments, e.g.</p> <p><b>1 m</b></p> <p><b>2 m</b></p> <p><b>3 m</b></p> <p><b>Note:</b><br/>4 m to 9 m cable lengths available by special request only.</p> | <p>S.P.D.T GREEN/YELLOW</p> <p>BROWN 2 BLUE 1</p> <p>3 BLACK</p> <p>Circuit closed</p> <p>F.P. 0 Degrees</p> <p>O.P. 30 Degrees max.</p> <p>O.F. (max) = 7.85 Newtons/800 GMF</p> <p>R.F. (min) = 1.0 Newtons/100 GMF</p> <p>F.P. 17,0 +/- 0,5</p> <p>O.P. 16,0 +/- 0,5</p> <p>O.F. (max) = 11,8 Newtons/1200 GMF</p> <p>R.F. (min) = 4,4 Newtons/450 GMF</p> <p>F.P. 29,5 +/- 0,5</p> <p>O.P. 28,5 +/- 0,5</p> <p>O.F. (max) = 11,8 Newtons/1200 GMF</p> <p>R.F. (min) = 4,4 Newtons/450 GMF</p> <p>F.P. 26,1 +/- 0,5</p> <p>O.P. 25,1 +/- 0,5</p> <p>O.F. (max) = 22,5 Newtons/2300 GMF</p> <p>O.P. (min) = 4,4 Newtons/450 GMF</p> <p>F.P. 35,5 +/- 0,5</p> <p>O.P. 34,2 +/- 0,5</p> <p>O.F. (max) = 17,5 Newtons/1800 GMF</p> <p>R.F. (min) = 4,4 Newtons/450 GMF</p> | <p><b>1</b></p> <p><b>7<sup>▲</sup></b></p> <p>▲ Low energy contacts</p> <p>See page 1</p> |
|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |

| Actuator type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Options (for actuator type 'A' only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="183 372 311 563"> </div> <div data-bbox="135 559 347 580">Top Rotary action/lever</div> <div data-bbox="419 427 464 493">A</div> <div data-bbox="507 436 660 480">See 'Options' for additional levers</div> <div data-bbox="167 691 359 808"> </div> <div data-bbox="135 825 282 846">Top Pin Plunger</div> <div data-bbox="419 708 464 772">B</div> <div data-bbox="167 925 359 1074"> </div> <div data-bbox="135 1089 381 1110">Top Roller Plunger, Parallel</div> <div data-bbox="419 987 464 1051">C</div> <div data-bbox="502 904 694 1074"> </div> <div data-bbox="499 1089 805 1110">Top Roller Plunger, Perpendicular</div> <div data-bbox="743 987 788 1051">D</div> <div data-bbox="167 1191 359 1351"> </div> <div data-bbox="135 1357 400 1378">Top Pin Plunger, Boot Sealed</div> <div data-bbox="419 1268 464 1332">E</div> <div data-bbox="159 1447 359 1606"> </div> <div data-bbox="135 1621 386 1664">Top Roller Plunger, Parallel, Boot Sealed</div> <div data-bbox="419 1538 464 1602">F</div> <div data-bbox="502 1447 694 1606"> </div> <div data-bbox="496 1621 805 1664">Top Roller Plunger, Perpendicular, Boot Sealed</div> <div data-bbox="727 1538 772 1602">G</div> | <div data-bbox="837 393 1062 436">Fixed length lever plastic roller</div> <div data-bbox="1109 383 1428 627"> </div> <div data-bbox="1436 378 1492 442">1A</div> <div data-bbox="837 589 1083 632">Fixed length lever stainless steel roller</div> <div data-bbox="1436 574 1492 638">1B</div> <div data-bbox="837 785 1046 829">Adjustable length lever plastic roller</div> <div data-bbox="1061 734 1428 1053"> </div> <div data-bbox="1436 780 1492 844">2A</div> <div data-bbox="837 983 1046 1025">Adjustable length lever stainless steel roller</div> <div data-bbox="1436 978 1492 1042">2B</div> <div data-bbox="837 1200 1021 1223">Adjustable rod lever</div> <div data-bbox="1053 1117 1428 1436"> </div> <div data-bbox="1436 1195 1492 1259">4J</div> <div data-bbox="837 1410 1032 1434">No lever (leave blank)</div> <div data-bbox="1436 1410 1492 1474">--</div> |
| <div data-bbox="454 1932 534 2002">X</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <div data-bbox="1428 1932 1508 2002">XX</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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