



Coordinate switch, 22 mm, round, plastic with metal front ring, black, 2 switch positions, vertical, momentary contact type, without mechanical interlocking, Z=50-unit packaging

|  |  |
|--|--|
| product brand name                                       | SIRIUS ACT                                 |
| product designation                                      | Coordinate switches                        |
| design of the product                                    | Actuating/signaling element                |
| product type designation                                 | 3SU1                                       |
| product line   | Plastic with metal front ring, matt, 22 mm |
| <b>Enclosure</b>   |  |
| number of command points                                 | 1  |
| <b>Actuator</b>  |  |
| design of the actuating element                          | without mechanical interlock               |
| principle of operation of the actuating element          | momentary contact type                     |
| direction of actuation                                   | vertical                                   |
| product extension optional                               |  |
| • light source   | No   |
| • contact module   | Yes  |
| color of the actuating element                           | black                                      |
| material of the actuating element                        | plastic                                    |
| shape of the actuating element                           | Extended handle                            |
| outer diameter of the actuating element                  | 30.5 mm                                    |
| number of switching positions                            | 2  |
| Maximum deflection angle [°]                             | 30°  |
| <b>Front ring</b>  |  |
| product component front ring                             | Yes  |
| design of the front ring                                 | high                                       |
| material of the front ring                               | Metal, matt                                |
| color of the front ring                                  | sand gray                                  |
| <b>General technical data</b>                            |  |
| protection class IP                                      | IP65, IP67                                 |
| degree of protection NEMA rating                         | 1, 2, 3, 3R, 4, 4X, 12, 13                 |
| shock resistance   |  |
| • according to IEC 60068-2-27                            | sinusoidal half-wave 15g / 11 ms           |
| vibration resistance                                     |  |
| • according to IEC 60068-2-6                             | 10 ... 500 Hz: 5g                          |
| operating frequency maximum                              | 2 400 1/h                                  |
| mechanical service life (switching cycles)               |  |
| • as operating period per direction of actuation typical | 500 000                                    |
| reference code according to IEC 81346-2                  | S  |
| Substance Prohibitance (Date)                            | 10/01/2014                                 |
| <b>Safety related data</b>                               |  |
| B10 value with high demand rate according to SN 31920    | 250 000                                    |

|   |              |
|---|--------------|
| <b>proportion of dangerous failures</b>   |              |
| <ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> | 20 %<br>20 % |
| failure rate [FIT] with low demand rate according to SN 31920   | 100 FIT      |

#### Ambient conditions

|  |  |
|--|--|
| <b>ambient temperature</b>   |  |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul> | -25 ... +70 °C<br>-40 ... +80 °C                                   |
| environmental category during operation according to IEC 60721                             | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |

#### Installation/ mounting/ dimensions

|  |         |
|--|---------|
| <b>height</b>                                      | 30.5 mm |
| <b>width</b>                                       | 30.5 mm |
| <b>shape of the installation opening</b>           | round   |
| <b>mounting diameter</b>                           | 22.3 mm |
| <b>positive tolerance of installation diameter</b> | 0.4 mm  |
| <b>mounting height</b>                             | 71.3 mm |
| <b>installation width</b>                          | 30.5 mm |
| <b>installation depth</b>                          | 25.6 mm |

#### Certificates/ approvals

#### Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/ic10>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1030-7AD10-0AA0-Z X90>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1030-7AD10-0AA0-Z X90>

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1030-7AD10-0AA0-Z X90>

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1030-7AD10-0AA0-Z X90&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1030-7AD10-0AA0-Z X90&lang=en)

last modified:

1/27/2022 