

Siemens  
EcoTech



Coordinate switch, 22 mm, round, plastic, black, 2 switch positions, horizontal latching, with mechanical interlocking



|                                                          |                                  |
|----------------------------------------------------------|----------------------------------|
| product brand name                                       | SIRIUS ACT                       |
| product designation                                      | Coordinate switches              |
| design of the product                                    | Actuating/signaling element      |
| product type designation                                 | 3SU1                             |
| product line                                             | Plastic, black, 22 mm            |
| <b>Enclosure</b>                                         |                                  |
| number of command points                                 | 1                                |
| <b>Actuator</b>                                          |                                  |
| design of the actuating element                          | with mechanical interlocking     |
| principle of operation of the actuating element          | latching                         |
| direction of actuation                                   | horizontal                       |
| 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                          |
| type of unlocking device                                 | push-to-unlatch mechanism        |
| 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                               | plastic                          |
| color of the front ring                                  | black                            |
| <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 (operating cycles)               |                                  |
| • as operating period per direction of actuation typical | 100 000                          |
| reference code according to IEC 81346-2                  | S                                |

|                                                                         |                                                                    |
|-------------------------------------------------------------------------|--------------------------------------------------------------------|
| Substance Prohibittance (Date)                                          | 10/01/2014                                                         |
| Weight                                                                  | 43 g                                                               |
| <b>Safety related data</b>                                              |                                                                    |
| proportion of dangerous failures                                        |                                                                    |
| • with low demand rate according to SN 31920                            | 20 %                                                               |
| • with high demand rate according to SN 31920                           | 20 %                                                               |
| B10 value with high demand rate according to SN 31920                   | 100 000                                                            |
| failure rate [FIT] with low demand rate according to SN 31920           | 100 FIT                                                            |
| IEC 61508                                                               |                                                                    |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a                                                               |
| <b>Ambient conditions</b>                                               |                                                                    |
| ambient temperature                                                     |                                                                    |
| • during operation                                                      | -25 ... +70 °C                                                     |
| • during storage                                                        | -40 ... +80 °C                                                     |
| environmental category during operation according to IEC 60721          | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |
| <b>Environmental footprint</b>                                          |                                                                    |
| Environmental Product Declaration (EPD)                                 | Yes                                                                |
| global warming potential [CO2 eq] total                                 | 0.787 kg                                                           |
| global warming potential [CO2 eq] during manufacturing                  | 0.566 kg                                                           |
| global warming potential [CO2 eq] during operation                      | 0.235 kg                                                           |
| global warming potential [CO2 eq] after end of life                     | -0.015 kg                                                          |
| Siemens Eco Profile (SEP)                                               | Siemens EcoTech                                                    |
| <b>Installation/ mounting/ dimensions</b>                               |                                                                    |
| height                                                                  | 30.5 mm                                                            |
| width                                                                   | 30.5 mm                                                            |
| shape of the installation opening                                       | round                                                              |
| mounting diameter                                                       | 22.3 mm                                                            |
| positive tolerance of installation diameter                             | 0.4 mm                                                             |
| mounting height                                                         | 75.6 mm                                                            |
| installation width                                                      | 30.5 mm                                                            |
| installation depth                                                      | 25.5 mm                                                            |
| <b>Approvals Certificates</b>                                           |                                                                    |
| General Product Approval                                                |                                                                    |
| Test Certificates                                                       |                                                                    |



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Maritime application

other

Environment



[Confirmation](#)



Environment



[Environmental Confirmations](#)

**Further information**

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3SU1000-7BA10-0AA0>

Cax online generator

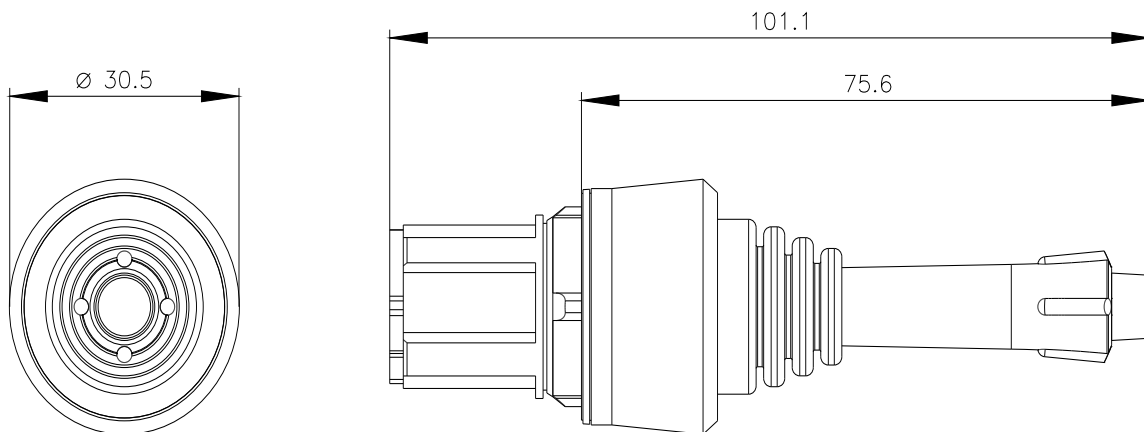
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-7BA10-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-7BA10-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-7BA10-0AA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-7BA10-0AA0&lang=en)



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