SIEMENS

## Data sheet 3SU1050-7BB88-0AA0-Z X90



Coordinate switch, 22 mm, round, metal shiny, black, 2 switch positions, vertical latching, with mechanical interlocking, Z=50-unit packaging

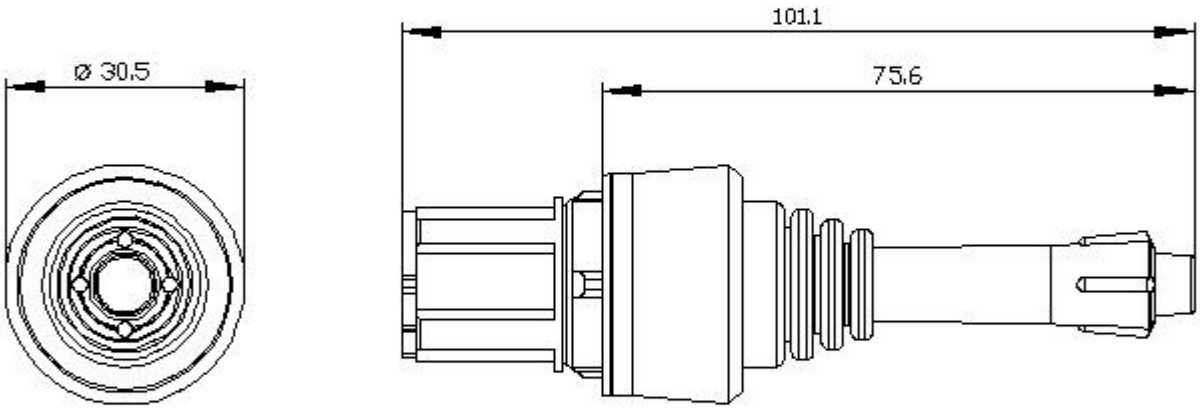
| | |
|---|---|
| **product brand name** | SIRIUS ACT |
| **product designation** | Coordinate switches |
| **design of the product** | Actuating/signaling element |
| **product type designation** | 3SU1 |
| **product line** | Metal, shiny, 22 mm |
| **Actuator** | |
| **design of the actuating element** | with mechanical interlocking |
| **principle of operation of the actuating element** | latching |
| **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 |
| **type of unlocking device** | push-to-unlatch mechanism |
| **number of switching positions** | 2 |
| **Maximum deflection angle [°]** | 30° |
| **Front ring** | |
| **product component front ring** | Yes |
| **design of the front ring** | high |
| **material of the front ring** | Metal, high gloss |
| **color of the front ring** | silver |
| **General technical data** | |
| **protection class IP** | IP65, IP67 |
| **degree of protection NEMA rating** | 1, 2, 3, 3R, 4, 4X, 12, 13 |
| **shock resistance** | |
| ● acc. to IEC 60068-2-27 | Sinusoidal half-wave 50g / 11 ms |
| **vibration resistance** | |
| ● acc. to IEC 60068-2-6 | 10 ... 500 Hz: 5g |
| **operating frequency maximum** | 3 600 1/h |
| **mechanical service life (switching cycles)** | |
| ● as operating period per direction of actuation typical | 100 000 |
| **reference code acc. to IEC 81346-2** | S |
| **Safety related data** | |
| B10 value with high demand rate acc. to SN 31920 | 100 000 |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| **proportion of dangerous failures** | |
| ● with low demand rate acc. to SN 31920 | 20 % |
| ● with high demand rate acc. to SN 31920 | 20 % |
| failure rate [FIT] with low demand rate acc. to SN 31920 | 100 FIT |
| **T1 value for proof test interval or service life acc. to IEC 61508** | 20 y |
| **Ambient conditions** | |
| ● ambient temperature during operation | -25 ... +70 °C |
| ● ambient temperature during storage | -40 ... +80 °C |
| environmental category during operation acc. to IEC 60721 | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95 %) |
| **Installation/ mounting/ dimensions** | |
| **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 |
| **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=3SU1050-7BB88-0AA0-Z X90
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1050-7BB88-0AA0-Z X90
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SU1050-7BB88-0AA0-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=3SU1050-7BB88-0AA0-Z X90&lang=en


Subject to change without notice
© Copyright Siemens




**last modified:** 8/31/2020


Subject to change without notice
© Copyright Siemens