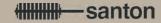
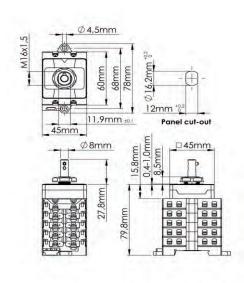
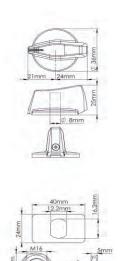
For the height of a switch is the tolerance always $\pm 1\%$





General tolerances on linear dimensions:





| | 0 | 7 |
|---|---|-----|
| 3 | | 1 1 |
| ٦ | | 厂 |
| _ | 2 | |

4

| Dimensions (mm) | 0,5 - 3 | > 3 - 6 | > 6 - 30 | > 30 - 120 | > 120 - 400 | |
|--|---------|---------|----------|------------|-------------|--|
| Tolerances unless Otherwise mentioned (mm) | ± 0,1 | ± 0,1 | ± 0,2 | ± 0,3 | ± 0,5 | |

| The tolerances for the Santon | datasheet are according | g to ISO 110 | 1 ISO 8015 | ISO 2768 1 class m | unless stated otherwise |
|-------------------------------|-------------------------|--------------|------------|--------------------|-------------------------|
| | | | | | |

| Technical data | Symbol | Ratings: | | | | | | - 11 | Unit |
|--|-------------------|---------------|----------------|-------------|---------|-------|---------|-----------|----------|
| Rated operational voltage | Ue | · | | | 10 | 00 | | 800 | V dc |
| Rated operational current | le | | | | | 50 | | 60 | A dc |
| Required fine wire cross-section | ı (minimal)*: | | | | | 10 | | 16 | mm² |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| *IEC60947-1, table 9 | | | | | | | | | |
| Number of DC poles | | | | | | | | 4 | |
| Pollution degree | | | | | | | | 2 | |
| Utilization category DC | | | | | | | DC- | -PV1 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| IP rating terminals | | | | | | | | IP20 | |
| Tightening torque terminal scre | ws M4 (min ma | ıx.) | | | 1 | 1,5 | _ | 1,7 | Nm |
| Method of mounting | | , | | | | ,- | | _,. | |
| IP rating of the shaft in case of s | ingle hole mount | ing | | | | | | IP65 | |
| Tightening torque panel mounti | ing nut (min m | ax.) | | | 2 | 2,0 | - | 2,5 | Nm |
| Panel thickness between | | | | | | 1 | - | 4 | mm |
| Positions | | | 12 (OFF) and 3 | o'clock (ON |) | | | | |
| Actuator | | | Standard A kno | b with long | screw 1 | to fi | x in sł | naft | |
| Method of operation | | | Independent m | anual opera | ation | | | | |
| | | | | | | | | | |
| Data di manda mishatan di 1999 | | | Himm | | | | - | 0 | LAZ |
| Rated impulse withstand voltage Insulation voltage | e | | Uimp Ui | | | | - 1 | 8 L000 | kV V |
| | | | | | | | 1 | 60 | |
| Rated thermal current uninterrunce Rated short-time withstand current uninterrunce Rated short-time with stand current uninterrunce Rated thermal current uninterrunce Rated Short-time with the Rated Short-time uninterrunce Rated Short-time Rated S | . , | | lu | | | | | 700 | A |
| Rated short-time withstand curi | | | lcw lcm | | | | | 1 | A kA |
| Rated snort-circuit making capa | | | Isc | | | | | 5 | kA kA |
| nated conditional Short-circuit C | urrent | | 150 | | | | | Э | KΑ |
| Minimum required dimensions | of enclosures L v | W x D* {snace | e envelone} | 124 | x 4 | 7 | Х | 81 | mm |
| * see the drawing for the height | | | | 124 | ^ 4 | , | ^ | 4 | |
| Weight | co. die switch. H | ic number of | 10, 0.3 14 13. | | | | ca | 198 | g |
| Allowed ambient temperature (| min max.) | | Tambient | | _ | 40 | _ | 70 | °C |
| Allowed storage temperature (n | | | Tstorage | | | 40 | _ | 85 | °C |
| Relative humidity (max.), witho | | at 20°C | RH | | | .0 | | 90 | % |
| , (a., with | | | | | | | | 50 | ,,, |

| Recommend Manufacturer | Type number | Wire size (AWG) | Wire size (mm²) | Color |
|------------------------|---------------|-----------------|---------------------------|--------|
| JST | | AWG 16 – AWG 14 | 1,0 – 2,5 mm² | Blue |
| TE connectivity | C-165012 | AWG 16 – AWG 14 | 1,0 - 2,5 mm ² | Blue |
| Vogt | 3635c | AWG 16 – AWG 14 | 1,5 – 2,5 mm² | Blue |
| TE connectivity | C-165015 | AWG 12 - AWG 10 | 3,0 - 6,0 mm ² | Yellow |
| Vogt | 3654c / 3655c | AWG 12 - AWG 10 | 3,0 - 6,0 mm ² | Yellow |
| Santon (JST) | 54A1256.35 | AWG 8 - AWG 10 | 10,5mm²-16mm² *1 | *2 |

| Terminals Scheme | | | | | | | | | |
|------------------|-------|--------|---------|-----------|-------|-----------|---|---|---|
| Layer | Front | t Side | Symbol | Rear Side | | Positions | | | |
| No. | Left | Right | Зуппоот | Left | Right | 1 | 2 | 3 | 4 |
| | | | | | | | | | |
| 9 | | | | | | | | | |
| 8 | | | | | | | | | |
| 7 | | | | | | | | | |
| 6 | | | | | | | | | |
| 5 | +2 | | | +2 | | 1 | | | 0 |
| 4 | | -2 - | | | -2 | 1 | | | 0 |
| 3 | -1 | | | -1 | | 1 | | | 0 |
| 2 | | +1 | o | | +1 | -1 | | | 0 |
| 1 | | | Empty | | | | | | |

(I = Contact is closed, O = Contact is open)

Mounting instructions

In the application all ratings according to the datasheet have to be respected. After mounting, the wiring must be checked and the switch must operate smoothly. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards.In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard (IEC/UL).

Maintenance

The X type switches are designed for a very long life but it is advised to do some simple yearly maintenance.

- Check the installation for signs of overload or overheating. The terminals may not exceed the limit of 85°C under full load.
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life. Connection

The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

Warning

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

- *1 16mm² only with fine stranded wire (or two times 6mm²)
- *2 To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3 \dots