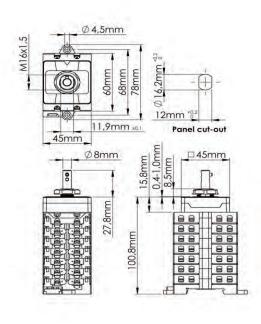
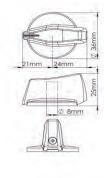
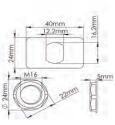


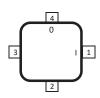
Data Sheet XBC+0610/2











| General tolerances on linear dimensions: | For the height of a switch is the tolerance always ± 1% | | | | | | |
|--|---|---------|----------|------------|-------------|--|--|
| 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 telegrances for the Santon datasheet are according to ISO 1101, ISO 2015, ISO 2769, 1 class multiples stated otherwise | | | | | | | |

| Technical data | Symbol | Ratings: | | 1 | - 11 | Unit |
|-----------------------------------|------------------|-----------------|----------------------|------------------------|---------|------|
| Rated operational voltage | Ue | | | 1000 | 800 | V do |
| Rated operational current | le | | | 50 | 60 | A do |
| Required fine wire cross-section | n (minimal): | | | 10 | 16 | mm² |
| *IEC60947-1, table 9 | | | | | | |
| Number of DC poles | | | | | 6 | |
| Pollution degree | | | | | 2 | |
| Utilization category DC | | | | D | C-PV1 | |
| IP rating terminals | | | | | IP20 | |
| Tightening torque terminal scr | ews M4 (min | max.) | | 1,5 - | - 1,7 | Nm |
| Method of mounting | | | | | | |
| IP rating of the shaft in case of | single hole mo | unting | | | IP65 | |
| Tightening torque panel moun | ting nut (min | max.) | | 2,0 - | - 2,5 | Nm |
| Panel thickness between | | | | 1 - | - 4 | mm |
| Positions | | | 12 (OFF) and 3 o' | clock (ON) | | |
| Actuator | | | Standard A knob | with long screw to fix | in shaf | t |
| Method of operation | | | Independent mar | nual operation | | |
| | | | | | 1,4 | Nm |
| | | | | 0,50 - | 0,70 | Nm |
| Rated impulse withstand volta | ge | | Uimp | | 8 | kV |
| Insulation voltage | | | Ui | | 1000 | V |
| Rated thermal current uninter | rupted duty | | lu | | 60 | Α |
| Rated short-time withstand cu | rrent (1s) | | lcw | | 700 | Α |
| Rated short-circuit making cap | acity | | Icm | | 1 | kA |
| Rated conditional short-circuit | | | Isc | | 5 | kA |
| Minimum required dimensions | of enclosures | L x W x D* {spa | ce envelope} | 124 x 47 | x 102 | mn |
| * see the drawing for the heigh | nt of the switch | . The number o | of layers N is: | | 6 | |
| Weight | | | | C | a. 253 | g |
| Allowed ambient temperature | (min max.) | | Tambient | -4 | 0 – 70 | °C |
| Allowed storage temperature (| min max.) | | T _{storage} | -4 | 0 – 85 | °C |
| Relative humidity (max.), with | out condensati | on at 20°C | RH | | 90 | % |

| Recommend Manufacturer | Type number | Wire size (AWG) | Wire size (mm²) | Color |
|------------------------|---------------|-----------------|------------------|--------|
| JST | FVD2-YS4A | AWG 16 – AWG 14 | 1,0 – 2,5 mm² | Blue |
| TE connectivity | C-165012 | AWG 16 – AWG 14 | 1,0 – 2,5 mm² | 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 mm² | Yellow |
| Vogt | 3652c / 3653c | AWG 12 - AWG 10 | 3,0 - 6,0 mm² | Yellow |
| Santon (JST) | 52A1256.35 | AWG 8 - AWG 10 | 10,5mm²-16mm² *1 | *2 |

| Terminals Scheme | | | | | | | | | |
|--|------|--------|------------|-----------|-------|-----------|---|---|---|
| Layer | Fron | t Side | Symbol | Rear Side | | Positions | | | |
| No. | Left | Right | Зуппрог | Left | Right | 1 | 2 | 3 | 4 |
| | | | | | | | | | |
| 9 | | | | | | | | | |
| 8 | | | | | | | | | |
| 7 | -3 | | <u></u> | -3 | | 1 | | | 0 |
| 6 | | +3 | | | +3 | 1 | | | 0 |
| 5 | +2 | | <u></u> он | +2 | | 1 | | | 0 |
| 4 | | -2 | | | -2 | 1 | | | 0 |
| 3 | -1 | | <u></u> он | -1 | | 1 | | | 0 |
| 2 | | +1 | | | +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)

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.

note: subject to change without any notice, JDA pay no responsibility

^{*1 16}mm² 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....