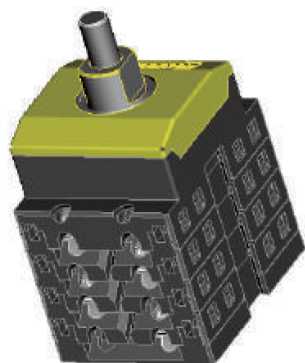




Data Sheet Santon X-Type switch X60.16PL4E-(A)

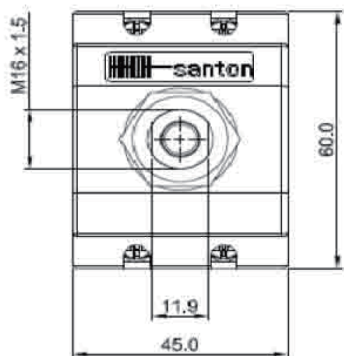
Switch disconnecter for solar application according to
ICE 60947-1&3



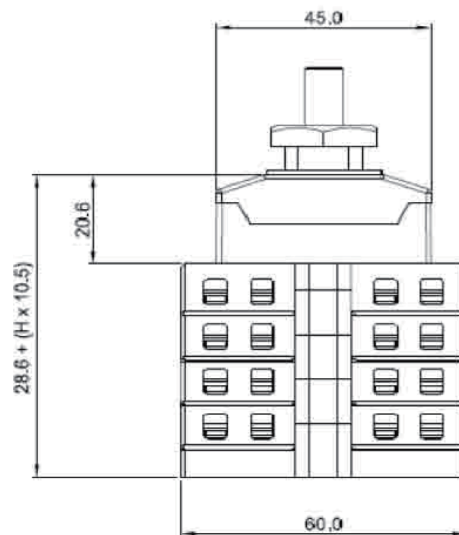
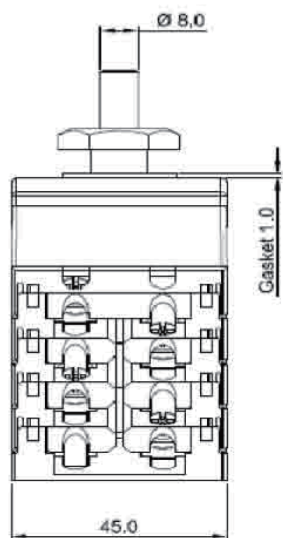
| Contact Scheme | | | | | | | |
|----------------|---------|--------|---------|--------------|---|---|---|
| Layer No. | Marking | Symbol | Marking | On Positions | | | |
| | | | | 1 | 2 | 3 | 4 |
| 12 | | —/— | | | | | |
| 11 | | —/— | | | | | |
| 10 | | —/— | | | | | |
| 9 | | —/— | | | | | |
| 8 | | —/— | | | | | |
| 7 | | —/— | | | | | |
| 6 | | —/— | | | | | |
| 5 | | —/— | | | | | |
| 4 | +2 | —/— | +2 | X | | | |
| 3 | -2 | —/— | -2 | X | | | |
| 2 | -1 | —/— | -1 | X | | | |
| 1 | +1 | —/— | +1 | X | | | |

Contacts are made in "X" marked position.
Symbols for interconnection: []

| Technical data | Symbol | Unit |
|--|--|---------------------|
| nominal voltage (DC poles) | Ue | 600 V dc |
| nominal current (DC poles) | Ie | 16 A dc |
| nominal voltage (second rating DC poles, if requested) | Ue | V dc |
| nominal current (second rating DC poles, if requested) | Ie | A dc |
| method of mounting | single hole mounting IP65 [P] long gland | |
| number of DC poles | | 4 |
| utilization category DC | | DC-21B |
| actuator | without a knob, suitable for standard black knob [A] | |
| positions | OFF at 12 hr, ON at 3 hr [E] | |
| rated impulse withstand voltage | Uimp | 8 kV |
| insulation voltage | Ui | 600 V |
| rated thermal current uninterrupted duty | Iu | 16 A |
| rated short-time withstand current (1s) | Icw | 480 A |
| rated short-circuit making capacity | Icm | 1,4 kA |
| rated conditional short-circuit current | | 4 kA |
| max. cut-off current | | kA |
| max power dissipation | | 1,6 W |
| method of operation | independent manual operation | |
| minimum required dimensions of enclosures L x W x H* | | 124 x 47 x 74 mm |
| * see the drawing for the height of the switch. The number of layers H is: | | 4 |
| terminal screws M4 need a tightening torque, min. - max. | 1,5 | 1,7 Nm |
| tightening torque screw in the standard black knob, min. - max. | 2,0 | 2,5 Nm |
| minimum required fine wire cross-section: IEC60947-1, table 9 | | 2,5 mm ² |
| ambient temperature allowed between | | - 5 and + 40 °C |
| storage temperature allowed between | | - 40 and + 80 °C |
| maximum relative humidity, without condensation at 20°C | | 90 % |
| pollution degree | | 2 |
| IP rating terminals | | IP20 |
| IP rating gland of the shaft in case of single hole panel mounting | | IP65 |
| nominal voltage (AC poles) | Ue | V ac |
| nominal current (AC poles) | Ie | A ac |
| number of DC poles | | |
| auxiliary contact, nominal current 16A at 250 V, AC15 | No auxiliary contact | |
| weight | | 221 g |
| accessories: | | - |



H is the number of layers in the switch



Mounting instructions

In the application all ratings have to be respected. When building the switch in an enclosure, the space envelope must be respected. The terminals can take flexible wires up to 6 mm² and fork shoes for wires up to 10 mm² (type 3547C from Vogt). After mounting, the wiring must be checked and the switch must operate smoothly.

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.

Dimensions, specifications and data shown are be subject to change without notice.