## Data Sheet Santon X－Type switch XC150．13DC．U8－G－D

Suitable as photovoltaic disconnect switch in accordance with Article 690 of NFPA 70 （NEC） UL 508i，（including the requirements for PV application）






PANEL CUTOUT


## 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．

## 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 850 C under full load．
－By operating the switch a few times $(5 x)$ the contacts will clean themselves and the switch will have a longer life．
Connection details

| Description | Symbol | Values |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rated operational current（DC poles） | le | 13 | 21 | 30 | 50 | A dc |
| Required fine wire cross－section <br> （minimal）：IEC60947－1，table 9 | A | 1,5 | 4 | 6 | $2 \times 6$ | $\mathrm{~mm}^{2}$ |
| max power dissipation | P | 0,6 | 1,6 | 3,2 | 9,0 | W |

The terminals，without interconnection can take copper wires up to $6 \mathrm{~mm}^{2}$ ．
The recommended Spade Tongue Terminals may have a maximum width of 9 mm ．
For CSA and UL applications，registered Spade Tongue Terminals must be used．
The registration numbers are UL：E13288 and CSA：LR7189（for instance type 165015 from Tyco）．
Registerd Spade Tongue Terminals

| Recommend Manufacturer | Type number | Wire size（AWG） | Wire size（ $\mathrm{mm}^{2}$ ） | Color |
| :---: | :---: | :---: | :---: | :---: |
| JST | FVD2－YS4A | AWG 16 －AWG 14 | $1,0-2,5 \mathrm{~mm}^{2}$ | Blue |
| TE connectivity | C－165012 | AWG 16 －AWG 14 | $1,0-2,5 \mathrm{~mm}^{2}$ | Blue |
| Vogt | 3635c | AWG 16 －AWG 14 | $1,5-2,5 \mathrm{~mm}^{2}$ | Blue |
| TE connectivity | C－165015 | AWG 12 －AWG 10 | $3,0-6,0 \mathrm{~mm}^{2}$ | Yellow |
| Vogt | 3652c／3653c | AWG 12 －AWG 10 | 3，0－6，0 mm ${ }^{2}$ | Yellow |
| Santon（JST） | 52A1256．35 | AWG 8 －AWG 10 | $10,5 \mathrm{~mm}^{2}-16 \mathrm{~mm}^{2}{ }^{*}$ | ＊2 |

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[^0]:    ＊1 $16 \mathrm{~mm}^{2}$ only with fine stranded wire or two $6 \mathrm{~mm}^{2}$ is also possible
    ${ }^{* 2}$ Optional：A yellow finger safe sleeve for the Spade Tongue Terminal（Santon 52A1256．35）can be ordered under item number 52A1564．00

