

Data Sheet Santon X-Type switch

X382-D Switch disconnector for solar application according to IEC 60947-1&3 by Dekra (KEMA) Dekra certificate number: 2151827.02



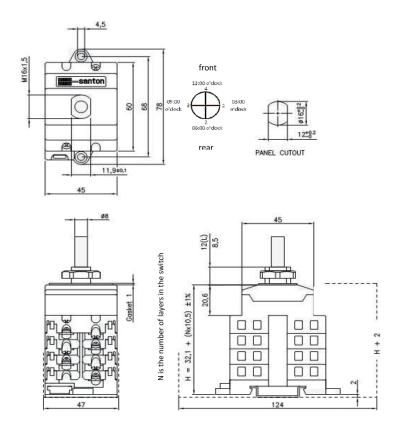
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Terminals Scheme									
Layer	Front	t Side	Symbol	Rear Side		On Positions			
No.	Left	Right	Зуппрог	Left	Right	1	2	3	4
		-			_		Х		Х
14		6			8				
13	1		_/_				Χ		Х
12			_/_		3		Х		Х
11	2		_/_				Х		Χ
10			_/_		4		Х		Χ
9	5		_/_				Χ		Χ
8			_/_		7				
7			empty				Χ		Χ
6			_/_	+1			Χ		Χ
5			_/_		+1		Χ		Χ
4	-1		-/-	-1			Х		Χ
3		-2	-/-		-2		Х		Χ
2			_/_	+2			Χ		Χ
1			L/_		+2		Χ		Χ

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

ATTENTION!
The switch may only be used with insulated baseplate so that the terminals have enough clearance in air and creepage distances to electrically conductive parts, in accordance with the applicable standards. This switch may not be used for any other purpose.

Symbol Me	rit	Unit
Ue	100	0 V dc
le	4	0 A dc
Ue		V dc
le		A dc
Ue		V dc
le		A dc
Ue		V dc
le		A dc
both bottom and	single hole mounting [D]	
		4
DC-21B		
knob with padlocl	king, grey/grey [B]	
OFF at 3 hr, ON a	t 6 hr, OFF at 9 hr, ON at 12	hr
Uimp		8 kV
Ui	100	0 V
lu	4	О А
lcw	72	0 A
Icm	101	5 A
		5 kA
independent man	nual operation	
	124 x 47 x 179,	1 mm
	1	4
	max. 1,	4 mm
	1,5 1,	7 Nm
	2,0 2,	5 Nm
	0,5 0,	7 Nm
	- 25 to + 7	o °C
	- 40 to + 8	O °C
	9	0 %
		2
	IP2	0
	IP6	5
Ue	69	0 Vac
le		
le		
		iary contact
	140 duxi	.ary correct
_	557	g
	Ue le Ue le Ue le Ue le Ue le both bottom and DC-21B knob with padloc OFF at 3 hr, ON a Uimp Ui lu lcw lcm independent man	Ue 1000 le 44 Ue le Ue le Ue le Ue le Ue le Ue le both bottom and single hole mounting [D] DC-21B knob with padlocking, grey/grey [B] OFF at 3 hr, ON at 6 hr, OFF at 9 hr, ON at 12 Uimp III 1000 III 44 Icw 72 Icm 1011 independent manual operation 124 x 47 x 179, 10 max. 1, 1,5 1, 2,0 2,1 1,5 1, 2,0 2,1 1,5 1, 2,0 2,1 1,5 1, 2,0 2,1 1,5 1, 2,0 2,1 1,5 1, 2,0 6,5 0, 1,25 to +74 1,40 to +84 1,96 IP26 Ue 69 Ie 69 Ie 69 Ie 69 Ie 66 Ie 33 3+1



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 85oC 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 details

Description	Symbol		Unit			
Rated operational current (DC poles)	le	40				A dc
Required fine wire cross-section (minimal): AWG	А	2x6	-	-	-	mm²
max power dissipation	Р	3,6	0,0	0,0	0,0	W

The terminals, without interconnection can take copper wires up to 6 mm².

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 (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 mm ²	Blue
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm ²	Blue
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 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	10,5mm ² -16mm ² *1	*2

^{*1 16}mm² only with fine stranded wire or two 6mm² is also possible

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

^{*2} Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00