







The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise.

Technical data	Symbol	Ratings:					1	Unit
Rated operational voltage	Ue						600	V dc
Rated operational current	le						36	A dc
Power dissipation (max)								
Required fine wire cross-section	n (minimal):						8	AWG
Number of DC poles							6	
Utilization category DC				Photovolta	ic disconn	ect s	witch	
Pollution degree							2	
IP rating terminals							IP20	
Tightening torque terminal scre	ews M4 (min m	nax.)			1,5	-	1,7	Nm
Method of mounting								
IP rating of the shaft in case of	single hole mour	nting					IP65	
Tightening torque panel mount	ing nut (min r	max.)			2,0	-	2,5	Nm
Panel thickness between					1	-	4	mm
Positions			12 (OFF) and 3	o'clock (ON))			
Actuator	uator knob with padlock and top screw, black/grey [G],							
Method of operation			Independent r	nanual opera	ition			
Actuator operation force (max.)						1,4	Nm
Tightening torque M3 screw in	the actuator (mi	in max.)			0,20	-	0,30	Nm
Rated impulse withstand voltag	ge		Uimp				8	kV
Insulation voltage			Ui				600	V
Rated thermal current uninterr	upted duty		lu				36	Α
Rated short-time withstand cur	rent (1s)		Icw				700	Α
Rated short-circuit making capa	acity		Icm				1	kA
Rated conditional short-circuit	current		Isc				5	kA
Suitable for use on a circuit cap	bale of deliverin	g not more tha	n 5,000					
Amperes on a 600Vdc System v	vhen protected l	by Fuses						
Minimum required dimensions	of enclosures L	x W x D* {space	e envelope}	124	x 47	Х	97	mm
* see the drawing for the heigh	t of the switch.	The number of	layers N is:				6	
Weight						ca	. 262	g
Allowed ambient temperature	(min max.)		Tambient		-40	-	70	°C
Allowed storage temperature (min max.)		Tstorage		-40	-	85	°C
Relative humidity (max.), with	out condensation	n at 20°C	RH				90	%

Use 75°C wires.min.	10AWG.	torque 20.4 Lb-in	(1.7 Nm)

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

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

(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.

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

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)

*1 16mm² only with fine stranded wire (or two times 6mm²)

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

Superior Switch Solutions