



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	П	III	IV	Unit
Rated operational voltage	Ue		1100	1000	800	500	V dc
Rated operational current	le		10	16	25	50	A dc
Required fine wire cross-sectio	n (minimal)*:		2,5	2,5	4	10	mm²
*IEC60947-1, table 9							
Number of DC poles						8	
Utilization category DC						DC-PV1	
Pollution degree						2	
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 mou	ınting				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	o'clock (ON)			
Actuator	tuator Standard A knob with long screw to fix in shaft						
Method of operation			Independent ma	anual operat	tion		
Actuator operation force (max.	.)					1,4	Nm
Tightening torque M3 screw in	the actuator (n	nin max.)			0,50	- 0,70	Nm
Rated impulse withstand voltag	ge		Uimp			8	kV
Insulation voltage			Ui			1100	V
Rated thermal current uninterr	rupted duty		lu			50	Α
Rated short-time withstand cur	rrent (1s)		lcw			700	Α
Rated short-circuit making cap	acity		Icm			1	kA
Rated conditional short-circuit	current		Isc			5	kA
Minimum required dimensions				124	x 47	x 92	mm
* see the drawing for the heigh	nt of the switch.	The number	of layers N is:			6	
Weight						ca. 274	g
Allowed ambient temperature			Tambient		-40	- 70	°C
Allowed storage temperature (Tstorage		-40	- 85	°C
Relative humidity (max.), with	out condensation	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 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 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	Зуппьог	Left	Right	1	2	3	4
9	+4			+4		1			0
8		-4			-4	1			0
7	-3			3		1			0
6		+3	<u> </u>		+3	1			0
5	+2			+2		1			0
4		-2			-2	1			0
3	-1			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.

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
- 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