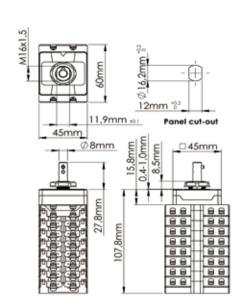
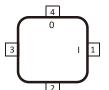
Attention! This switch may only be mounted with a support at the end of the switch.











General tolerances on linear dimensions:	For the height of a switch is the tolerance always ± 1%					
Dimensions (mm)	0,5 - 3	> 3 - 6	> 6 - 30	> 30 - 120	> 120 - 400	
Tolerances unless Otherwise mentioned (mm)	± 0,1	± 0,1	± 0,2	± 0,3	± 0,5	
The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768, 1 class millinless stated otherwise						

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	II	III	IV	Unit	
Rated operational voltage	Ue	DC-PV1	1200	1000	800	600	V dc	
Rated operational current	le	DC-PV1	20	30	40	50	A dc	

Rated operational current	ie	DC-PVI	20	30	40		50	A ac
Required fine wire cross-section (m	ninimal)*:		4	6	10		10	mm²
Rated operational voltage	Ue	DC-PV2	1200	1000	800		600	V dc
Rated operational current	le	DC-PV2	7,5	12,5	20		30	A dc
Required fine wire cross-section (m	ninimal)*:		2,5	2,5	4		6	mm²
Number of DC poles							8	
Utilization category DC				[DC-PV1 aı	nd Do	C-PV2	
Pollution degree							2	
IP rating terminals							IP20	
Tightening torque terminal screws	M4 (min max	(.)			1,5	-	1,7	Nm
Method of mounting								
IP rating of the shaft in case of sing	le hole mounti	ng					IP65	
Tightening torque panel mounting					2,0	_	2,5	Nm
Panel thickness between		,			1	_	4	mm
Positions			12 (OFF) and 3 o'c	clock (ON)				
Actuator			Standard A knob with long screw to fix in shaft					
Method of operation			Independent manual operation					
Actuator operation force (max.)							1,4	Nm
Tightening torque M3 screw in the	actuator (min.	- max.)			0,50	-	0,70	Nm
Rated impulse withstand voltage			Uimp				8	kV
Insulation voltage			Ui				1200	V
Rated thermal current uninterrupte	od duty		lu				50	A
Rated short-time withstand current			lcw				700	A
Rated short-circuit making capacity			Icm				1	kA
Rated conditional short-circuit curr	·						5	kA kA
nateu conditional Short-Circuit curr	ent		Isc				5	KA
Minimum required dimensions of e	enclosures L x V	V x D* {space e	nvelope}	124	x 47	х	118	mm
* see the drawing for the height of	the switch. The	e number of lay	ers N is:				8	
Weight		,				Ci	a. 296	g

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST		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	

Tambient

Tstorage

RH

Terminals Scheme Layer Front Side Rear Side **Positions** Symbol Left Right 1 2 3 4 8 +4 0 7 0 6 -3 0 O+ 5 ∩⊢ 0 4 +2 0 3 0 2 -1 OH 0 1 +1 O+ +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)

Superior Switch Solutions

Allowed ambient temperature (min. - max.)

Allowed storage temperature (min. - max.)

Relative humidity (max.), without condensation at 20°C

XBHP+3810-2 . (090419 1630)

-40

-40

70

85

90 %

°C

°C

^{*1} 16mm^2 only with fine stranded wire (or two times 6mm^2)