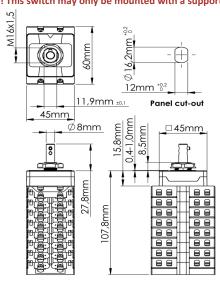
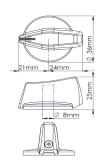


IIIIIIII santon

Data Sheet XBCH+3810/2

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 da	atasheet are according to ISO :	1101, ISO 8015, ISC	2768 1 cla	ss m, unles	s sta	ted oth	erwise.
Technical data	Symbol Ratings:	*	1	II.		III	Unit
Rated operational voltage	Ue	1250	1500	1000		800	V dc
Rated operational current	le	3!	5 20	50		60	A dc
Required fine wire cross-section	(minimal)*:	10	0 4	10		16	mm²
* Santon calculation not certified							
*IEC60947-1, table 9							
Number of DC poles						8	
Pollution degree						2	
Utilization category DC					D	C-PV1	
IP rating terminals						IP20	
Tightening torque terminal scree	ws M4 (min max.)			1,5	_	1,7	Nm
Method of mounting		panel mountii	ng				
IP rating of the shaft in case of s	ingle hole mounting					IP65	
Tightening torque panel mounti	ng nut (min max.)			2,0	-	2,5	Nm
Panel thickness between				1	-	- 4	mm
Positions 12 (OFF) and 3 o'clock (ON)							
Actuator Standard A knob with long screw to fix in shaft							
Method of operation	·						
Actuator operation force (max.)						1,4	Nm
Tightening torque M3 screw in t	he actuator (min max.)			0,50	-	0,70	Nm
Rated impulse withstand voltage	9	Uimp				8	kV
Insulation voltage		Ui				1500	V
Rated thermal current uninterru	ipted duty	lu				60	Α
Rated short-time withstand curr	ent (1s)	lcw				700	Α
Rated short-circuit making capa	city	Icm				1,4	kA
Rated conditional short-circuit c	urrent	Isc				5	kA
Minimum required dimensions of enclosures L x W x D* {space envelope} 124 x			x 47	Х	118	mm	
* see the drawing for the height of the switch. The number of layers N is:					8		
Weight					C	a. 296	g
Allowed ambient temperature (min max.)	Tambient		-25	-	70	°C

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST		AWG 16 – AWG 14	1,0 – 2,5 mm²	Blue
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 – 2,5 mm²	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	3654c / 3655c	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

Tstorage

RH

Allowed storage temperature (min. - max.)

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

Terminals Scheme										
Layer	Fron	t Side	Symbol	Rear	Side	P	osi	tion	S	
No.	Left	Right	Symbol	Left	Right	1	2	3	4	
9										
8	+4			+4		Ι			0	
7		-4			-4	Ι			0	
6	-3			-3		Ι			0	
5		+3			+3	Ι			0	
4	+2			+2		Ι			0	
3		-2			-2	Ι			0	
2	-1			-1		Ι			0	
1		+1			+1	Ι			0	
/T = : : : 1 1 1 0 = : : : 1										

(I = Contact is closed, 0 = 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. In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard (IEC/UL).

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 85°C 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)

Warning

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

- *1 16mm² only with fine stranded wire (or two times 6mm²)
- *2 To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3

-40

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