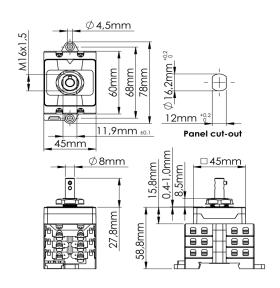
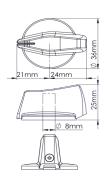
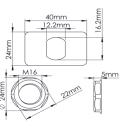
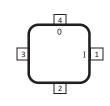


Data Sheet XBCH+0210/2











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 m, unless stated otherwise.								

Technical data	Symbol Ra	itings	1					Ш	Ш	Unit
Rated operational voltage	Ue	DC-PV1	1500	1400	1300	1200	1100	1000	800	V dc
Rated operational current	le	DC-PV1	20	26	32	38	44	50	60	A dc
Overload power PV 1 is 1,5 x normal po	wer for 5 opera	tions so overload powe	er 30					75	90	mm²
Required fine wire cross-section	4	6	6	10	10	10	16			
·	calculated rating									
Rated operational voltage	Ue	DC-PV2	1500			1200		1000	800	V dc
Rated operational current	le	DC-PV2	12			18		25	40	A dc
Overload power PV 2 is 4,0 x normal po	wer for 5 operat	ions so overload powe	er 48			72		100	160	A dc
Required fine wire cross-section	n (minimal)	*:	2.5			2.5		4	10	mm²
*IEC60947-1, table 9										
Number of DC poles									2	
Pollution degree									2	
Utilization category DC							DC-PV	1 and D	C-PV2	
IP rating terminals									IP20	
Tightening torque terminal scr	ews M4 (mii	n max.)						1,5	- 1,7	Nm
Method of mounting										
IP rating of the shaft in case of	single hole	mounting							IP65	
Tightening torque panel moun	ting nut (mi	n max.)							- 2,5	Nm
Panel thickness between									1 – 3	mm
Positions 12 (OFF) and 3 o'clock (ON)										
Actuator Standard A knob with long screw to fix in shaft									haft	
Method of operation Independent manual operation										
Actuator operation force (max	,								1,4	Nm
Tightening torque M3 screw in		r (min max.)						0,45 -	- 0,55	Nm
Rated impulse withstand volta	ge		Uim	р					8	kV
Insulation voltage			Ui						1500	V
Rated thermal current uninter	rupted duty		lu						60	Α
Rated short-time withstand cu	rrent (1s)		lcw						700	Α
Rated short-circuit making cap			Icm						1,4	kA
Rated conditional short-circuit			Isc						5	kA
Minimum required dimensions of enclosures L x W x D* {space envelope} 124 x 47 x 60									mm	
*see the drawing for the height of the switch. The number of layers N is:										
Weight								С	a. 143	g
Allowed ambient temperature	(min max	.)	Tam	bient				-25	- 70	°C
Allowed storage temperature	(min max.)		Tsto	rage				-40	- 85	°C
Relative humidity (max.), with	out condens	ation 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 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 mm²	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	Positions					
No.	Left	Right	Зуппрог	Left	Right	1	2	3	4	
9										
8										
7										
6										
5										
4										
3	-1			-1		Ι			0	
2		+1			+1	Ι			0	
1			Empty							
(I = Contact is closed, O = Contact is open)										

(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. 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 times6mm²)
- *2 To insulate the cable lugs, you can use the insulatingspouts of the ES series from CEMBRE with the typedesignation ES3-XX

note: subject to change without any notice, JDA pay no responsibility