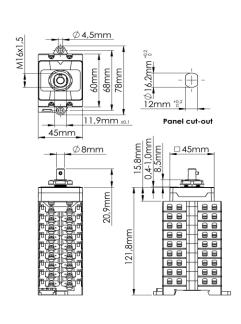
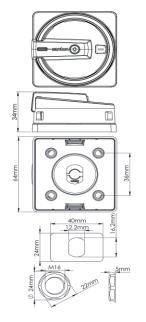
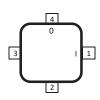


Data Sheet XBCH+0810/5









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	Ratings:		1	H .	101	Unit	
Rated operational voltage	Ue			1500	1000	800	V dc	
Rated operational current	le			20	50	60	A dc	
Required fine wire cross-sectio	n (minimal):			4	10	16	mm²	
*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 scre	ews M4 (min	max.)			1,5 -	- 1,7	Nm	
Method of mounting								
IP rating of the shaft in case of single hole mounting						IP65		
Tightening torque panel mount	ing 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 kno	Standard A knob with long screw to fix in shaft						
Method of operation	Independent n	Independent manual operation						
Rated impulse withstand voltage	ge		Uimp			8	kV	
Insulation voltage			Ui			1500	V	
Rated thermal current unintern	upted duty		lu			60	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	
Minimum required dimensions of enclosures L x W x D* {space envelope}				124 x 47	x 123	mm		
* see the drawing for the heigh	t of the switch	. The number	of layers N is:			8		
Weight					C	a. 308	g	
Allowed ambient temperature	(min max.)		Tambient		-4	0 – 70	°C	
Allowed storage temperature (min max.)		T _{storage}		-4	0 – 85	°C	
Relative humidity (max.), without	ut condensati	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 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 Side		Positions			
No.	Left	Right	Зуппрог	Left	Right	1	2	3	4
9	+4		<u></u>	+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. 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)

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.

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

^{*1 16}mm² 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....