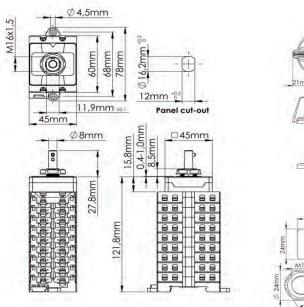
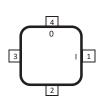


## Data Sheet XBC+0810/2







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 multipless stated otherwise						

				· · · · · · · · · · · · · · · · · · ·		
Technical data	Symbol	Ratings:		1	П	Unit
Rated operational voltage	Ue			1100	1000	V do
Rated operational current	le			10	16	A do
Required fine wire cross-section	n (minimal):			2,5	2,5	mm
*IEC60947-1, table 9						
Number of DC poles					2	
Pollution degree					DC-PV1	
Utilization category DC					2	
IP rating terminals					IP20	
Tightening torque terminal scr	ews M4 (min	max.)		1,5	- 1,7	Nn
Method of mounting						
IP rating of the shaft in case of					IP65	
Tightening torque panel moun	ting nut (min	max.)		2,0	- 2,5	Nn
Panel thickness between				1	- 4	mn
Positions			12 (OFF) and 3	3 o'clock (ON)		
Actuator Standard A knob with long			ob with long screw to	fix in shaft	t	
Method of operation			Independent r	manual operation		
					1,4	Nn
				0,50	- 0,70	Nn
Rated impulse withstand volta	ge		Uimp		8	kV
Insulation voltage			Ui		1100	V
Rated thermal current uninter	· · · · · ·		lu		50	Α
Rated short-time withstand cu	( - /		lcw		700	Α
Rated short-circuit making cap			Icm		1	kA
Rated conditional short-circuit			Isc		5	kA
Minimum required dimensions				124 >	47 x 50	mr
* see the drawing for the heigh	nt of the switch	. The number	of layers N is:		2	
Weight					ca. 149	g
Allowed ambient temperature			Tambient		-40 – 70	°C
Allowed storage temperature (			$T_{storage}$		-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 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	Зуппоот	Left	Right	1	2	3	4
9	+4			+4		1			0
8		-4			-4	1			0
7	-3			3		1			0
6		+3			+3	1			0
5	+2		<u> </u>	+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)									

(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 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....

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