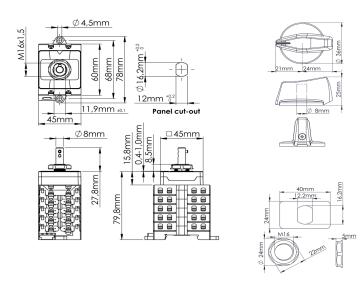


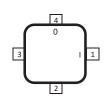
Data Sheet XBE+0410/2



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 telegraphics for the Santon datasheet are according to ISO 1101, ISO 2015, ISO 2769, 1 class multiples stated otherwise								

The tolerances for the Sa	anton datasn			1101,	150 001					33 30		
Technical data		Symbol	Ratings:				I		II		III	Unit
Rated operational voltage		Ue	DC-PV1			100		80			500	V dc
Rated operational current		le	DC-PV1				.6	2	25		50	A dc
Required fine wire cross-sec							,5		4		10	mm²
Rated operational voltage	based on	Ue	DC-PV2			100		≦80			≦500	V dc
Rated operational current	2 poles	le	DC-PV2				8	12			25	A dc
Ie(make) and Ie(break)	_1/02/0	4 x Ie	DC-PV2			3	2		0		100	A dc
Rated operational current	1 pole	le	DC-PV2				2		,1		6,3	A dc
le(make) and le(break)		4 x Ie	DC-PV2				8	12			25,2	A dc
Required fine wire cross-sect	tion (minimal)	*:				2	,5		4		4	mm²
*IEC60947-1, table 9												
Number of DC poles											4	
Pollution degree											2	
Utilization category DC								DC-	PV1 a	nd Do	C-PV2	
Polarity				No F	olarity, "	+" and "-	' polariti	es cou	ld be c	hang	ed	
Indoor or outdoor Use				Suita	able for b	oth indoo	r and ou	tdoor	use			
for enclosed indoor use AS 6	0947.3	IP Code				IP2	20					
for enclosed outdoor use AS	60947.3	IP Code				IP6	6NW, af	ter ins	tallatio	n		
for enclosed outdoor use AS	or enclosed outdoor use AS 60947.3 Specific dedicated individual			al encl	osure	mi	n. size 34	l0mm>	(240m)	mx10	00mm	
for enclosed outdoor use AS	60947.3	Ithe at 40°C				50.	A					
for enclosed outdoor useAS	60947.3	Ithe solar at	40°C			50.	A					
for enclosed outdoor use AS	for enclosed outdoor use AS 60947.3 Ithe solar at 40 °C					50	A					
for enclosed outdoor use AS		UV resistanc	e			Ye	5					
IP rating terminals											IP20	
Tightening torque terminal s	crews M4 (mir	n max.)							1,5	_	1.7	Nm
Method of mounting												
IP rating of the shaft in case	of single hole r	nounting									IP65	
Tightening torque panel mou	unting nut (mi	n max.)							2,0	-	2,5	Nm
Panel thickness between		•							1	_	3	mm
Positions				12 (C	FF) and 3	3 o'clock (ON)					
(- /					nob with long screw to fix in shaft							
Method of operation						manual o						
Actuator operation force (ma	ax.)										1,4	Nm
Tightening torque M3 screw		r (min max.)							0,45	_	0,55	Nm
Rated impulse withstand vol		(Uimp)				-,		8	kV
Insulation voltage				Ui							1000	V
Rated thermal current uninto	errunted duty			_	DC-PV1	= 50 A	DC-PV	2 =			25	A
Rated short-time withstand				lcw	20111	30 A	JC 1 V.				700	A
Rated short-circuit making ca		60947 1&3		Icm							1,4	kA
Rated conditional short-circu		00547 103		Isc							5	kA
Rated short-circuit making ca		50047: 2019		Icm							200	A
Minimum required dimensio			nace envelope				12	4 x	47	х	81	mm
* see the drawing for the he				•			12	→ X	47	X	4	111111
Weight	igni oi the SWI	.cn. The numbe	or layers IV IS							-	198	~
	ro (min man	١		Taml	iont				25	Ca		°C
Allowed ambient temperatu		,							-25	_	70	
Allowed storage temperatur	. ,			Tstor	age				-40	-	85	°C
Relative humidity (max.), wi	tnout condens	ation at 20 C		RH							90	%

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 mm ²	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	10,5mm²-16mm² *1	*2







Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear	Positions				
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9									
8									
7									
6									
5	+2		<u></u>	+2		1			0
4		-2			-2	1			0
3	-1		<u> </u>	-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 $% \left(1\right) =\left(1\right) \left(1\right)$ 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 $\label{eq:continuous} % \begin{center} \begin$ 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
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

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.

- *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-XX

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