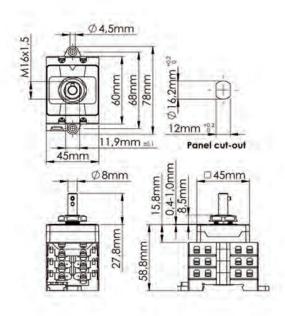
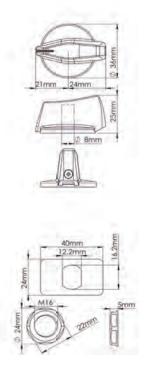
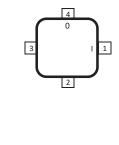


Data Sheet XBE+0210/2









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: i ii iii iv Unith Rated operational voltage Ue 1100 100 800 500 V dc Rated operational current Ie 10 16 25 500 Act Required fine wire cross-section (minmal): 2,5 2,5 2,5 4 10 mm² *IEC60947-1, table 9 *IEC60947-1, table 9 *Utilization category DC 2 2 2 2 2 2 2 1 2 1 2 2 2 1 2 1 7 1 Mm Mm Mm Mm 1 1 7 1 Mm			0						
Rated operational current Ie 10 16 25 50 A do Required fine wire cross-section (minimal): 2,5 2,5 4 10 mm² *IECGO947-1, table 9 2 2 2 12 2 12	Technical data	Symbol	Ratings:		1	П	III	IV	Unit
Required fine wire cross-section (minimal): 2,5 4,5 4 100 mm² *IECG0947-1, table 9 1 2 3	Rated operational voltage	Ue			1100	1000	800	500	V dc
*IEEG0947-1, table 9 Number of DC poles 2 Utilization category DC DC-PV1 Pollution degree 2 IP rating terminals 1P20 Tightening torque terminal screws M4 (min - max.) 1,5 1,7 7,7 Nm Method of mounting 1P65 P65 P65 P75	Rated operational current	le			10	16	25	50	A dc
Number of DC poles 2 Utilization category DC DC-PV1 Pollution degree 2 IP rating terminals 1P20 Tightening torque terminal screws M4 (min max.) 1P20 If rating of the shaft in case of single hole mounting IP65 Tightening torque panel mounting nut (min max.) 2,0 - 2,5 Mn Panel thickness between 12 (OFF) and 3 o'clock (N) Testions	Required fine wire cross-section	(minimal):			2,5	2,5	4	10	mm²
Utilization category DC DC-PV1 Pollution degree 2 IP rating terminals 1P20 Tightening torque terminal screws M4 (min - max.) 7 N Method of mounting 1P65 N IP rating of the shaft in case of single hole mounting N2 2 P N IP rating forque panel mounting nut (min - max.) 2 IP65 N Tightening torque panel mounting nut (min - max.) 12 (OFF) and 3 o'clock (NUS N N Panel thickness between 12 (OFF) and 3 o'clock (NUS N N Postions 12 (OFF) and 3 o'clock (NUS N N Actuator operation Independent amus to write to the shaft in the shaft in case of single hole mounting nut (min - max.) 1,4 N Method of operation Independent amus to write to the shaft in case of single hole mounting nut (min - max.) 1,4 N Method of operation Independent amus to write the shaft in case of single hole mounting nut (min - max.) 1,4 N Method of operation Independent mounting to the shaft in case of single hole mounting nut (min - max.) 1,0 N Read impulse	*IEC60947-1, table 9								
Pollution degree 2 IP rating terminals 1920 Tightening torque terminal screws M4 (min max.) 1,50 1,70 Nm Method of mounting 1,80 1,	Number of DC poles							2	
Prating terminals	Utilization category DC							DC-PV1	
Tightening torque terminal screws M4 (min max.) 1,5 - 1,7 Nm Method of mounting IP rating of the shaft in case of single hole mounting 1 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting 2 Prating of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole mounting of the shaft in case of single hole hole mounting of the shaft in case of single hole hole mounting of the shaft in case of single hole hole hole hole hole hole hole ho	Pollution degree							2	
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IP rating of the shaft in case of single hole mounting. IP Form Tightening torque panel mounting nut (min max.) 2,0 - 2,5 Nm Panel thickness between 12 (OFF) and 3 o'cluck (NUS The standard A knob with constructive to the standard standard A knob	Tightening torque terminal screv	ws M4 (min	max.)				1,5	- 1,7	Nm
Tightening torque panel mounting nut (min max.) 2,0 - 2,5 Nm Panel thickness between 12 (OFF) and 3 o'clock (ON) - 2,4 mm Positions 12 (OFF) and 3 o'clock (ON) - V - V Actuator Standard A knob with long screw to 15 to	Method of mounting								
Panel thickness between 1 - 4 mm Positions 12 (OFF) and 3 o'clock (ON) 1 - 1 - 4 mm Actuator Standard A knob with long screw to 1st x Is statt 1 - 1 - 1 Mm Method of operation Independent manual operations 1,4 Nm Mm	IP rating of the shaft in case of s	ingle hole mo	unting					IP65	
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Tightening torque M3 screw in the actuator (min max.) 0,50 - 0,70 Nm Rated impulse withstand voltage Uimp 8 kV Insulation voltage Ui 1100 V Rated thermal current uninterrupted duty Iu 50 A Rated short-time withstand current (1s) Icw 700 A Rated short-circuit making capacity Icm 1 kA Rated short-circuit making capacity 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 50 mm * see the drawing for the height of the switch. The number of layers N is: 2 Weight ca. 149 g Allowed ambient temperature (min max.) Tambient -40 - 70 °C Allowed storage temperature (min max.) T _{storage} -40 - 85 °C	Method of operation			Indepe	endent ma	nual opera	ition		
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* see the drawing for the height of the switch. The number of layers N is: 2 Weight ca. 149 g Allowed ambient temperature (min max.) Tambient -40 - 70 °C Allowed storage temperature (min max.) T _{storage} -40 - 85 °C								5	kA
Weight ca. 149 g Allowed ambient temperature (min max.) Tambient -40 -70 °C Allowed storage temperature (min max.) $T_{storage}$ -40 -85 °C	•						124	x 47 x 50	mm
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		of the switch	. The number of	of layers N is:					
Allowed storage temperature (min max.) T_{storage} $-40 - 85$ °C									
3.00%				Tambient					
Relative humidity (max.), without condensation at 20°C RH 90 %	Allowed storage temperature (n	nin max.)		$T_{storage}$				-40 – 85	°C
	Relative humidity (max.), withou	ıt 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 mm ²	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	Cumahal	Rear	Positions					
No.	Left	Right	Symbol	Left	Right	1	2	3	4	
9										
8										
7										
6										
5										
4										
3	-1		O	-1		1			0	
2		+1	<u></u>		+1	1			0	
1			Empty							

(I = Contact is closed, O = Contact is oper

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.

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 85oC 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)

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

^{*1 16}mm² only with fine stranded wire (or two times 6mm²)

^{*2} Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00