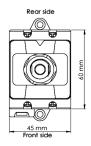
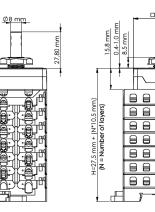
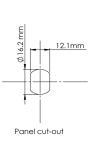
# XB0610/2

Certified for IEC 60947 1&3 DC21B and CCC (CQC)

#### -------santon



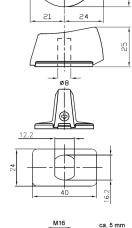




□45 mm

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7





0	
4	
3	

Technical data	Symbol Rat	ings:	Ш	- 10	IV	V	Unit
Rated operational voltage	e Ue	1000	850	800	650	400	V dc
Rated operational current	t le	16	20	25	30	45	A dc
Required fine wire cross-s	section (minimal)*:	2,5	4,0	4,0	6,0	10,0	mm²
*IEC60947-1, table 9							
Number of DC poles						6	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque termin	al screws M4 (min ma	<.)			1,5	- 1,7	Nm
Method of mounting							

Method of mounting	
IP rating of the shaft in case of single hole and four hole panel mounting	IP65

Positions	12 (OFF) and 3 o'clock (ON)					
Actuator	Standard A kn	Standard A knob with long screw to fix in shaft				
Method of operation	Independent i	Independent manual operation				
Actuator operation force (max.)					1,4	Nm
Tightening torque M3 screw in the actuator (min max.)			0,2	-	0,4	Nm
Rated impulse withstand voltage	Uimp				8	kV
Insulation voltage	Ui				850	V
Rated thermal current uninterrupted duty	lu				45	А
Rated short-time withstand current (1s)	Icw				700	А
Rated short-circuit making capacity	Icm				1,4	kA
Rated conditional short-circuit current	lsc				5	kA
Minimum required dimensions of enclosures L x W x D* {space	e envelope}	124 x	47	х	92	mm
* see the drawing for the height of the switch. The number of	layers N is:				6	
Weight				са	. 274	g
Allowed ambient temperature (min max.)	Tambient		-40	-	70	°C
Allowed storage temperature (min max.)	T <sub>storage</sub>		-40	-	85	°C
Relative humidity (max.), without condensation at 20°C	RH				90	%

Recommend Manufacturer Type number Wire size (AWG) Wire size (mm<sup>2</sup>) Color JST FVD2-YS4A AWG 16 – AWG 14 1,0 - 2,5 mm<sup>2</sup> Blue TE connectivity C-165012 AWG 16 – AWG 14 1,0 – 2,5 mm<sup>2</sup> Blue 3635c AWG 16 - AWG 14  $1.5 - 2.5 \text{ mm}^2$ Blue Vogt C-165015 AWG 12 - AWG 10 3,0 - 6,0 mm<sup>2</sup> TE connectivity Yellow Vogt 3652c / 3653c AWG 12 - AWG 10 3,0 - 6,0 mm<sup>2</sup> Yellow 10,5mm<sup>2</sup>-16mm<sup>2</sup> \*<sup>1</sup> \*2 Santon (JST) 52A1256.35 AWG 8 - AWG 10

Terminals Scheme Front Side **Rear Side** Positions Layer Symbol No Left Right Left Right 1 2 3 4 7 0 -3 -3 I 6 0 +3 I 5 +2 +2 0 O L 4 0 -2 -2 T 0 3 -1 **O** -1 Т 2 +1 O. +1 0 I 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.

#### 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)

\*1 16mm<sup>2</sup> only with fine stranded wire (or two times 6mm<sup>2</sup>)

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

Superior Switch Solutions