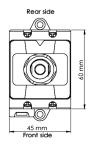
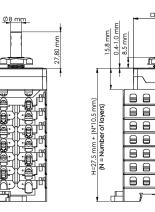
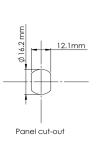
## XB0410/2

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

#### -santon



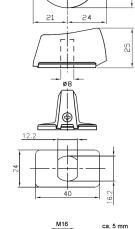




□45 mm

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				3		4	L	Ĵ	1
						2		J	
			Terminals S	cheme		L <u></u>			
Layer	Fron	t Side			Side	F	osit	ions	5
No.	Left	Right	Symbol	Left	Right	1	2	3	4

		Terminals Scheme									
	Layer	Front Side		Symbol	Rear	Positions					
	No.	Left	Right	Symbol	Left	Right	1	2	3	4	
	7										
	6										
	5	+2			+2		1			0	
	4		-2			-2	Т			0	
	3	-1			· -1		Т			0	
	2		+1			+1	Т			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.

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

- 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> or	ly with fine st	randed wire (or	two times 6mm <sup>2</sup> )
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\*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

Technical data	Symbol Ratings:	- I -	- 11	III	IV	V	Unit
Rated operational voltage	Ue	1000	850	800	650	400	V dc
Rated operational current	le	16	20	25	30	45	A dc
Required fine wire cross-sect	ion (minimal)*:	2,5	4,0	4,0	6,0	10,0	mm²
*IEC60947-1, table 9							
Number of DC poles						4	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal s	crews M4 (min max.)				1,5 -	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of	of single hole and four hole par	nel mounting				IP65	

Positions	12 (OFF) and 3	3 o'clock (O	N)				
Actuator	Standard A kn	ob with lon	g scr	ew to	fix ir	n shaft	
Method of operation	Independent	manual ope	ratio	n			
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	Isc					5	kA
Minimum required dimensions of enclosures L x W x D* {space	e envelope}	124	х	47	х	71	mm
* see the drawing for the height of the switch. The number of	layers N is:					4	
Weight					са	. 211	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 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	10,5mm <sup>2</sup> -16mm <sup>2</sup> * <sup>1</sup>	*2

Superior Switch Solutions

# Maintenance load.