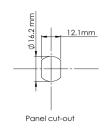
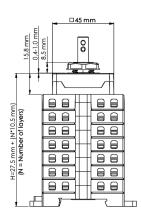
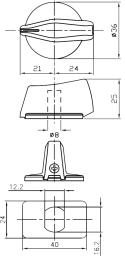
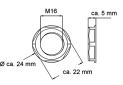


Ø8 mm











Technical data	Symbol	Ratings:	1	П	III	IV		٧	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								2		
Utilization category DC							DC	-21B		
Pollution degree								2		
IP rating terminals								IP20		
Tightening torque terminal so	crews IVI4 (min.	- max.)				1,5	-	1,7	Nm	
Method of mounting										
IP rating of the shaft in case of	of single hole an	d four hole p	anel mounting					IP65		
Positions			12 (OFF	and 3 o'c	clock (ON)					
Actuator			Standa	Standard A knob with long screw to fix in shaft						
Method of operation			Indepe	ndent mar	ual opera	tion				
Actuator operation force (ma	x.)							1,4	Nm	
Tightening torque M3 screw in the actuator (min max.)						0,2	-	0,4	Nm	
Rated impulse withstand volt	age		Uimp					8	kV	
Insulation voltage			Ui					850	V	
Rated thermal current uninte	rrupted duty		lu					45	Α	
Rated short-time withstand o			lcw					700	Α	
Rated short-circuit making ca	pacity		Icm					1,4	kA	
Rated conditional short-circu			Isc					5	kA	
Minimum required dimension	ns of enclosures	s L x W x D* {	pace envelone)		124	x 47	X	50	mm	
* see the drawing for the hei								2		
Weight	5 2 5		, 2.0.0.10.10.1				ca.	149	g	
- 0	a (main many)		T <sub>ambient</sub>			-40	-	70	°C	
Allowed ambient temperatur	e (mm max.)									
Allowed ambient temperature			T <sub>storage</sub>			-40	_	85	°C	

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	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 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 mm <sup>2</sup>	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

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

Superior Switch Solutions

<sup>\*1 16</sup>mm² only with fine stranded wire (or two times 6mm²)

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