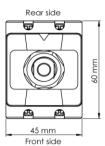
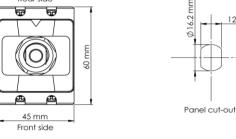
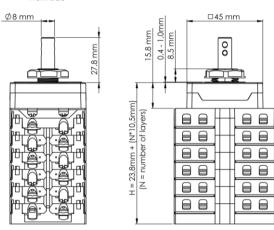
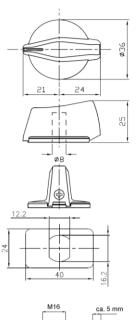
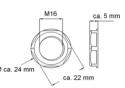
12.1mm











echnical data	Symbol	Ratings:				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-secti	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 so				1,5	-	1,7	Nm				
Method of mounting											
IP rating of the shaft in case of	of single hole and	four hole p	anel mounting					IP65			
Tightening torque panel mou	nting nut (min r	max.)				2,0	-	2,5	Nm		
Panel thickness between						1	-	4	mm		
Positions				12 (OFF) and 3 o'clock (ON)							
Actuator			Standa	rd A knob v	with long	screw to	fix in	shaft			
Method of operation			Indepe	ndent man	ual opera	ition					
Actuator operation force (ma	ıx.)							1,4	Nm		
Tightening torque M3 screw i	in the actuator (m	in 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 c	urrent (1s)		lcw					700	Α		
Rated short-circuit making ca	pacity		lcm					1,4	kA		
Rated conditional short-circu	it current		Isc					5	kA		
Minimum required dimension	ns of enclosures L	x W x D* {	space envelope}		124	x 47	х	85	mm		
* see the drawing for the heig	ght of the switch.	The numbe	er of layers N is:					4			
Weight							ca.	200	g		
Allowed ambient temperatur	e (min max.)		T <sub>ambient</sub>			-40	-	70	°C		
Allowed storage temperature	e (min max.)		T <sub>storage</sub>			-40	-	85	°C		
Relative humidity (max.), wit			RH					90	%		

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 mm <sup>2</sup>	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 <sup>2</sup>	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	Side Symbol		Rear Side		Positions				
No.	Left	Right	Зуппоот	Left	Right	1	2	3	4	
7										
6										
5										
4	+2			+2		1			0	
3		-2 -	<u></u>		-2	1			0	
2	-1		OH	-1		1			0	
1		+1 -	OH		+1	1			0	

2

(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  $\mbox{\ wiring must be}$ 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
- 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 16mm² 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

Superior Switch Solutions