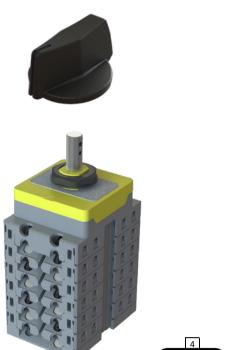




echnical data	Symbol Rating	s:	1	H .	10		IV		V	Unit
Rated operational voltage	Ue	1000		850	800		650		400	V dc
Rated operational current	le	16		20	25		30		45	A dc
Required fine wire cross-section	on (minimal)*:		2,5	4,0	4,0		6,0		10,0	mm²
*IEC60947-1, table 9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,-	, -	,-		-,-		-,-	
Number of DC poles									2	
Utilization category DC								DC	-21B	
Pollution degree									2	
IP rating terminals									IP20	
Tightening torque terminal screws M4 (min max.) 1,5 - 1,7								1,7	Nm	
Method of mounting										
IP rating of the shaft in case of	single hole and four h	ole panel moun	ting						IP65	
Tightening torque panel mounting nut (min max.)						2,0	-	2,5	Nm	
Panel thickness between							1	-	4	mm
Positions		1	2 (OFF) ar	nd 3 o'c	lock (ON	1)				
Actuator		S	tandard A	knob v	with long	scre	w to 1	fix in	shaft	
Method of operation		li li	ndepende	nt man	ual oper	atior	1			
Actuator operation force (max	)								1,4	Nm
Tightening torque M3 screw in	n the actuator (min m	ax.)					0,2	-	0,4	Nm
Rated impulse withstand volta	ge	l	Jimp						8	kV
Insulation voltage		l	 Ji						850	٧
Rated thermal current uninter	rupted duty	I	ı						45	Α
Rated short-time withstand cu	rrent (1s)	l.	cw						700	Α
Rated short-circuit making cap	acity	l.	cm						1,4	kA
Rated conditional short-circuit	current	l:	SC .						5	kA
Minimum required dimension	s of enclosures L x W x	D* {space enve	ope}		124	х	47	х	64	mm
* see the drawing for the heigh	ht of the switch. The nu	ımber of layers	N is:						2	
Weight								ca.	137	g
Allowed ambient temperature	(min max.)	Т	ambient				-40	-	70	°C
Allowed storage temperature (min max.)			storage				-40	-	85	°C
Relative humidity (max.), without condensation at 20°C			Н						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 mm <sup>2</sup>	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 mm <sup>2</sup>	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2



Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Зуппьог	Left	Right	1	2	3	4
7									
6									
5									
4									
3									
2	-1		\d_	-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 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  $16 \text{mm}^2$  only with fine stranded wire (or two times  $6 \text{mm}^2$ )
- \*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