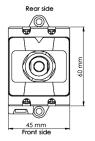
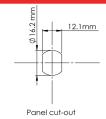
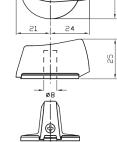
Mentioned rating counts when two poles (+ -) are applied, If there are two negative poles intended to combine in one terminal deck, then the maximal allowable current (A) has to be respected. This means the maximal allowable current has to be split by 2 (with 2 poles combined).



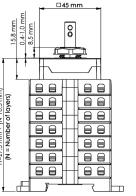
Ø8 mm

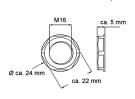












_	4	_
3	0	1
	2	
cheme		

echnical data	Symbol	Ratings:	1	- 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-section	on (minimal)*:		2,5	4,0	4,0	6,0	10,0	mm²
*IEC60947-1, table 9								
Number of DC poles							3	
Utilization category DC							DC-21B	
Pollution degree							2	
IP rating terminals							IP20	
Tightening torque terminal scr	ews M4 (min.	- max.)				1,5	- 1,7	Nm
Method of mounting								
Wicthou of mounting								
IP rating of the shaft in case of	single hole an	d four hole pan	el mounting				IP65	
IP rating of the shaft in case of	single hole an	d four hole pan	Ü				IP65	
IP rating of the shaft in case of Positions	single hole an	d four hole pan	12 (OFF) and 3 o'c	. ,			
IP rating of the shaft in case of Positions Actuator	single hole an	d four hole pan	12 (OFF	d A knob v	with long s		IP65 fix in shaft	
IP rating of the shaft in case of Positions Actuator Method of operation		d four hole pan	12 (OFF	d A knob v	. ,		fix in shaft	
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max	.)	·	12 (OFF	d A knob v	with long s	ion	fix in shaft 1,4	Nm
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max	.)	·	12 (OFF	d A knob v	with long s		fix in shaft	Nm Nm
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max Tightening torque M3 screw in	.) the actuator	·	12 (OFF	d A knob v	with long s	ion	fix in shaft 1,4	
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max Tightening torque M3 screw in	.) the actuator	·	12 (OFF Standal Indepe	d A knob v	with long s	ion	fix in shaft 1,4 - 0,4	Nm
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max Tightening torque M3 screw in Rated impulse withstand volta	.) the actuator	·	12 (OFF Standar Indeper	d A knob v	with long s	ion	fix in shaft 1,4 - 0,4	Nm
IP rating of the shaft in case of Positions Actuator Method of operation Actuator operation force (max Tightening torque M3 screw in Rated impulse withstand volta Insulation voltage Rated thermal current uninteri	.) the actuator ge	·	12 (OFF Standar Indeper Uimp Ui	d A knob v	with long s	ion	fix in shaft 1,4 - 0,4 8 850	Nm kV V
•	.) the actuator ge rupted duty rrent (1s)	·	12 (OFF Standar Indeper Uimp Ui	d A knob v	with long s	ion	fix in shaft 1,4 - 0,4 8 850 45	Nm kV V A

	Terminals Scheme									
La	yer	Fron	t Side	Symbol	Rear Side		Positions			
N	0.	Left	Right	Зуппоот	Left	Right	1	2	3	4
	7									
(6									
	5									
	4		+2			+2	1			0
	3	-					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
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

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)

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	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 mm ²	Blue
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm ²	Blue
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow
Vogt	3652c / 3653c	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

T_{ambient}

T_{storage}

RH

Superior Switch Solutions

Allowed ambient temperature (min. - max.)

Allowed storage temperature (min. - max.)

Relative humidity (max.), without condensation at 20°C

Weight

Minimum required dimensions of enclosures L x W x D* {space envelope}

* see the drawing for the height of the switch. The number of layers N is:

124 x 47 x

-40

-40

60 mm

70 ď

85

90

°C

ca. 180

^{*1 16}mm² 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