

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color	
JST		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	3654c / 3655c	AWG 12 - AWG 10	3,0 - 6,0 mm <sup>2</sup>	Yellow	
Santon (JST)	54A1256.35	AWG 8 - AWG 10	10,5mm <sup>2</sup> -16mm <sup>2</sup> * <sup>1</sup>	*2	

Ui

lu

lcw

lcm

Isc

Tambient

Tstorage

RH

Insulation voltage

Weight

Rated thermal current uninterrupted duty

Allowed ambient temperature (min. - max.)

Relative humidity (max.),  $\,$  without condensation at 20  $^{\circ}\text{C}$ 

Allowed storage temperature (min. - max.)

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

 $\ensuremath{^*}$  see the drawing for the height of the switch. The number of layers N is:

Rated short-time withstand current (1s)

Rated short-circuit making capacity

Rated conditional short-circuit current



> 120 - 400

± 0,5

Terminals Scheme											
Layer	Front Side		Symbol	Rear Side		Positions					
No.	Left	Right	Syllibol	Left	Right	1	2	3	4		
9											
8											
7											
6											
5	+2			+2		1			0		
4		-2			-2	1			0		
3	-1		O-	-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.In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard

## 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 85°C under full
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

## Connection

1500

60 Α

700

81 mm

70

85

90

ca. 198

٧

kΑ

kΑ

°C

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)

## Warning

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

- \*1 16mm² only with fine stranded wire (or two times
- \*2 To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3 ...

124 x 47 x

-40

-40