

Symbol Ratings:		1	II.		101	Unit
Ue		1500	1000		800	V do
le		20	50		60	A do
ninimal)*:		4	10		16	mm <sup>2</sup>
					8	
					2	
				DC	C-PV1	
					IP20	
M4 (min max.)			1,5	-	1,7	Nm
nut (min max.)				-		Nm
			1	-	4	mm
				ix in s	haft	
	Independent i	manual opera	tion			
	Uimp			_	8	kV
	Ui					V
ed dutv	lu				60	A
•						Α
V	Icm				1	kA
rent	Isc				5	kA
enclosures L x W x D* {sp	pace envelope}	124	x 47	Х	123	mm
the switch. The number					8	
the switch. The number	r of layers N is:			ca	. 308	g
			-40 -40	ca _		g °C °C
	Ue le le ninimal)*:  M4 (min max.)  le hole mounting nut (min max.)	Ue le le le minimal)*:  M4 (min max.)  M4 (min max.)  J2 (OFF) and is Standard A kn Independent is Uimp Ui led duty lu t (1s) lcw // lcm	Ue 1500 le 20 ninimal)*: 4  M4 (min max.)  M4 (min max.)  ple hole mounting nut (min max.)  12 (OFF) and 3 o'clock (ON) Standard A knob with long so Independent manual operation of the manu	Ue	Ue	Ue

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	

Terminals Scheme									
Layer	Front	t Side Symbol		Rear Side		Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9	+4	-		+4		1			0
8		-4			-4	1			0
7	-3	-	O-	-3		1			0
6		+3 -			+3	1			0
5	+2	-	O-	+2		1			0
4		-2 -			-2	1			0
3	-1		O-	-1		1			0
2		+1 -	o		+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 (IEC/UL).

## 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  $85^{\circ}\text{C}\,$  under full load.
- 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)

## /arning

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 6mm²)
- \*2 To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3 ....