Data Sheet

XB3310/2

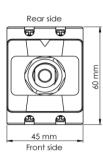
12.1mm

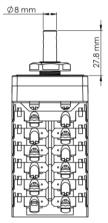
Certified for IEC 60947 1&3 DC21B and CCC (CQC)

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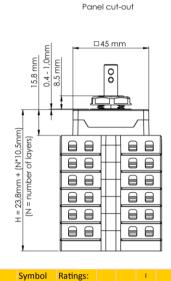
HIIIII santon

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).





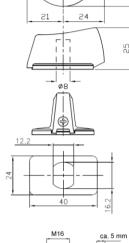
Technical data



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16.2

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IV

Unit

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						2		J		
			Terminals S	cheme		-				
Layer	Front	t Side	Symbol	Rear Side		Positions				
No.	Left	Right		Left	Right	1	2	3	4	
7										
6										
5										
4										
3		+2 -			+2	Т			0	
2	-	-		· _		Т			0	
1		+1 -			+1	Т			0	

(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	16mm ² only with	fine stranded wire	(or two times 6mm ²)
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*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

	Symbol Matings.								Onic
Rated operational voltage	Ue	1000	850	800	650)	4	00	V dc
Rated operational current	le	16	20	25	30)		45	A dc
Required fine wire cross-sect	ion (minimal)*:	2,5	4,0	4,0	6,0)	10	0,0	mm²
*IEC60947-1, table 9									
Number of DC poles								3	
Utilization category DC							DC-2	21B	
Pollution degree								2	
IP rating terminals							IP	20	
Tightening torque terminal so	crews M4 (min max.)				1,5	5	- :	1,7	Nm
Method of mounting									
IP rating of the shaft in case of		panel mounting						65	
Tightening torque panel mou	nting nut (min max.)				2,)	-	2,5	Nm
Panel thickness between					1		-	4	mm
Positions		12 (OFF) and 3 o'c	lock (ON))				
Actuator		Standar	rd A knob v	vith long	screw t	o fi>	k in sl	haft	
Method of operation		Indepei	ndent man	ual opera	ition				
Actuator operation force (ma	x.)							1,4	Nm
Tightening torque M3 screw i	in the actuator (min max.)				0,2	2	- (0,4	Nm
Rated impulse withstand volt	age	Uimp						8	kV
Insulation voltage		Ui					8	50	V
Rated thermal current uninte		lu						45	Α
Rated short-time withstand c	urrent (1s)	lcw					7	'00	Α
Rated short-circuit making ca	pacity	lcm					:	1,4	kA
Rated conditional short-circu	it current	lsc						5	kA
Minimum required dimension	ns of enclosures L x W x D* {	space envelope}		124	x 47		х	74	mm
* see the drawing for the heig	ght of the switch. The numbe	er of layers N is:						3	
Weight							ca. 1	.69	g
Allowed ambient temperatur	e (min max.)	T _{ambient}			-4() .	-	70	°C
Allowed storage temperature	e (min max.)	T _{storage}			-4() .	-	85	°C
Relative humidity (max.), wit	hout condensation at 20°C	RH						90	%

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

Superior Switch Solutions

XB3310-2 (131115 1455)

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