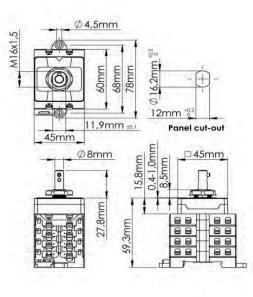


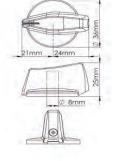
XBC+0310/2

2

1

Data Sheet XBC+0310/2









General tolerances on linear dimensions:	For the height of a switch is the tolerance always ± 1%						
Dimensions (mm)	0,5 - 3	> 3 - 6	> 6 - 30	> 30 - 120	> 120 - 400		
Tolerances unless Otherwise mentioned (mm)	± 0,1	± 0,1	± 0,2	± 0,3	± 0,5		
The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise.							

			150 1101, 150 5015, 150 2700 1 614						
Technical data	Symbol	Ratings:		1.00		Unit			
Rated operational voltage	Ue			1000	800	V dc			
Rated operational current	le			50	60	A dc			
Required fine wire cross-section	(minimal):			10	16	mm²			
*IEC60947-1, table 9									
Number of DC poles					3				
Pollution degree					2				
Utilization category DC				C	C-PV1				
IP rating terminals					IP20				
Tightening torque terminal screv	ws M4 (min.	- max.)		1,5 -	- 1,7	Nm			
Method of mounting									
IP rating of the shaft in case of si	ingle hole mo	ounting			IP65				
Tightening torque panel mounti	ng nut (min.	- max.)		2,0 -	- 2,5	Nm			
Panel thickness between				1 -	- 4	mm			
Positions			12 (OFF) and 3 o'clock (ON)					
Actuator			Standard A knob with lo	ong screw to fix	< in shaft	t			
Method of operation I			Independent manual op	Independent manual operation					
Rated impulse withstand voltage	2		Uimp		8	kV			
Insulation voltage			Ui		1000	V			
Rated thermal current uninterru	pted duty		lu		60	А			
Rated short-time withstand curr	ent (1s)		Icw		700	А			
Rated short-circuit making capac	city		Icm		1	kA			
Rated conditional short-circuit c	urrent		Isc		5	kA			
Minimum required dimensions of	of enclosures	L x W x D* {	space envelope}	124 x 4	17 x 71	mm			
* see the drawing for the height	of the switch	n. The numb	er of layers N is:		3				
Weight				c	a. 170	g			
Allowed ambient temperature (r	min max.)		Tambient	-4	0 – 70	°C			
Allowed storage temperature (m	nin max.)		T _{storage}	-4	0 - 85	°C			
Relative humidity (max.), withou	it condensati	on 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	10,5mm²-16mm² *1	*2

	Terminals Scheme								
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9									
8									
7									
6									
5									
4		-2			-2	Т			0
3	-1	-		· -1		Т			0
2		+1			+1	Т			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*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. **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)

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

note: subject to change without any notice, JDA pay no responsibility