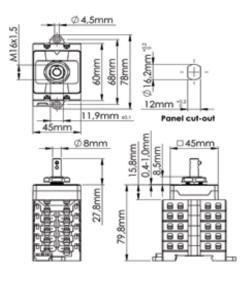


XBCH+0410/2

1

2

Data Sheet XBCH+0410/2









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 - 400Tolerances unless Otherwise mentioned (mm) $\pm 0,1$ $\pm 0,1$ $\pm 0,2$ $\pm 0,3$ $\pm 0,5$ The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise.

		-							
Technical data	Symbol	Ratings:		l.	0	Ш	Unit		
Rated operational voltage	Ue			1500	1000	800	V dc		
Rated operational current	le			20	50	60	A dc		
Required fine wire cross-section	ion (minimal):			4	10	16	mm²		
*IEC60947-1, table 9									
Number of DC poles						4			
Pollution degree						2			
Utilization category DC					0	DC-PV1			
IP rating terminals						IP20			
Tightening torque terminal so	rews M4 (min r	max.)			1,5 -	- 1,7	Nm		
Method of mounting									
IP rating of the shaft in case of single hole mounting						IP65			
Tightening torque panel mou	nting nut (min r	max.)			2,0 -	- 2,5	Nm		
Panel thickness between					1 -	- 4	mm		
Positions			12 (OFF) and 3	o'clock (ON)					
Actuator			Standard A kno	Standard A knob with long screw to fix in shaft					
Method of operation			Independent m	Independent manual operation					
Rated impulse withstand volt	age		Uimp			8	kV		
Insulation voltage			Ui			1500	V		
Rated thermal current uninte	rrupted duty		lu			60	А		
Rated short-time withstand c	urrent (1s)		Icw			700	А		
Rated short-circuit making ca	pacity		Icm			1	kA		
Rated conditional short-circuit	it current		lsc			5	kA		
Minimum required dimensions of enclosures L x W x D* {space envelope}				124 x 4	17 x 81	mm			
* see the drawing for the height of the switch. The number of layers N is:				4					
Weight					(a. 198	g		
Allowed ambient temperatur	e (min max.)		Tambient		-4	40 – 70	°C		
Allowed storage temperature	e (min max.)		T _{storage}		-4	40 – 85	°C		
Relative humidity (max.), with	nout condensation	n 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	Side Symbol		Rear Side		Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4	
9										
8										
7										
6										
5	+2			+2		Т			0	
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