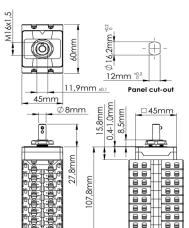
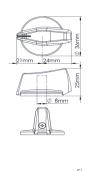
Data Sheet XBHP+3810/2







Attention! This switch may only be mounted with a support at the end of the switch.

General tolerances on linear dimensions:	For the height of a switch is the tolerance always $\pm1\%$						
Dimensions (mm)	0,5 - 3 > 3 - 6 > 6 - 30 > 30 - 120 > 120						
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.

Technical data	Symbol	Ratings:	1	H II	III	IV	Unit
Rated operational voltage	Ue	DC-PV1	848	707	565	424	V ac
Rated operational current	le	DC-PV1	20	30	40	50	Α
Required fine wire cross-section (mir	nimal)*:		4	6	10	10	mm²
Rated operational voltage	Ue	DC-PV2	848	707	565	424	V ac
Rated operational current	le	DC-PV2	7,5	12,5	20	30	Α
Required fine wire cross-section (mir	nimal)*:		2,5	2,5	4	6	mm²

Number of DC poles	8	
Utilization category DC	DC-PV1 and DC-PV2	
Pollution degree	2	
IP rating terminals	IP20	
Tightening torque terminal screws M4 (min max.)	1,5 - 1,7	Nm

Method of mounting		
IP rating of the shaft in case of single hole mounting	IP65	
Tightening torque panel mounting 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 long screw to fix in shaft	
Method of operation	Independent manual operation	
Actuator operation force (max.)	1,4	Nm

Actuator operation force (max.)						1,4	Nm
Tightening torque M3 screw in the actuator (min max.)			(0,50	-	0,70	Nm
Rated impulse withstand voltage	Uimp					8	kV
Insulation voltage	Ui					848	V ac
Rated thermal current uninterrupted duty	lu					50	Α
Rated short-time withstand current (1s)	lcw					700	Α
Rated short-circuit making capacity	Icm					1	kA
Rated conditional short-circuit current	Isc					5	kA
Minimum required dimensions of enclosures L x W x D* {space en	nvelope}	124	х	47	Х	118	mm

C.I.				
* see the drawing for the height of the switch. The number of		8		
Weight			ca. 296	g
Allowed ambient temperature (min max.)	Tambient	-40	- 70	°C
Allowed storage temperature (min max.)	Tstorage	-40	- 85	°C
Relative humidity (max.), without condensation at 20°C	RH		90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST		AWG 16 – AWG 14	1,0 - 2,5 mm ²	Blue
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 - 2,5 mm ²	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 ²	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	

Certified for IEC 60947 1&3 DC-PV1 and CCC (CQC) and DC-PV2



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3		l 1
)
	2	
Scheme		

Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			IS
No.	Left	Right	Зуппоп	Left	Right	1	2	3	4
9									
8	+4		O-	+4		1			0
7		-4	O-		-4	1			0
6	-3		O-	-3		1			0
5		+3 -	O-		+3	1			0
4	+2		o	+2		1			0
3		-2	O-		-2	1			0
2	-1		O-	-1		1			0
1		+1 -	o		+1	1			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)

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

^{*1 16}mm² only with fine stranded wire (or two times 6mm²)