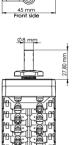
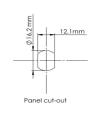
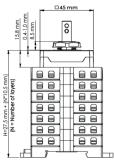


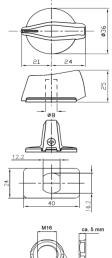
Data Sheet XBHP0210/2

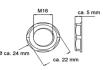


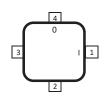














Technical data	Symbol	Ratings:		1	- 11	101	Unit
Rated operational voltage	Ue			1000	800	500	V dc
Rated operational current	le			20	30	40	A dc
Required fine wire cross-section	n (minimal)*:			4,0	6,0	10,0	mm²
*IEC60947-1, table 9							
Number of DC poles						2	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal scre	ws M4 (min	- max.)			1,5	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of s	single hole mo	unting				IP65	
Positions			12 (OFF) and 3	o'clock (ON)			
Actuator			Standard A kno	b with long	crew to	fix in shaft	
Method of operation			Independent m	ianual opera	tion		
Actuator operation force (max.))					1,4	Nm
Tightening torque M3 screw in	the actuator (min max.)			0,5	- 0,7	Nm
Rated impulse withstand voltag	e		Uimp			8	kV
Insulation voltage			Ui			1000	V
Rated thermal current uninterro	upted duty		lu			45	Α
Rated short-time withstand cur	rent (1s)		Icw			700	Α
Rated short-circuit making capa	icity		Icm			1,4	kA
Rated conditional short-circuit of	current		Isc			5	kA
Minimum required dimensions	of enclosures	L x W x D* {sp	ace envelope}		124 x	47 x 50	mm
* see the drawing for the height	t of the switch	n. The number	of layers N is:			2	
Weight						ca. 149	g
Allowed ambient temperature (min max.)		Tambient			-40 – 70	°C
Allowed storage temperature (r	min max.)		T _{storage}			-40 – 85	°C
Relative humidity (max.), witho	ut condensati	on at 20°C	RH			90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	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	Rea	Positions				
	No.	Left	Right	Зуппьог	Left	Right	1	2	3	4
	7									
	6									
	5									
	4									
	3	-1			-1		1			0
	2		+1	<u></u>		+1	1			0
	1			Empty						
		(1 -	Contac	tic closed O	- Cont	act is one	an)			

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 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

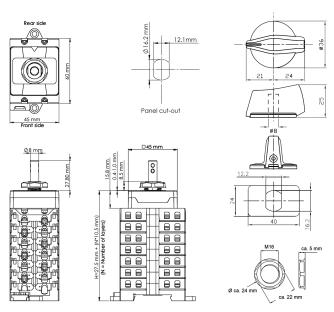
The terminals, can take copper wires up to 6 mm². The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

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

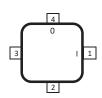
^{*2} Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00



Data Sheet XBHP0410/2







Technical data	Symbol	Ratings:		1		III	Unit
Rated operational voltage	Ue			1000	800	500	V dc
Rated operational current	le			20	30	40	A dc
Required fine wire cross-section	(minimal)*:			4,0	6,0	10,0	mm²
*IEC60947-1, table 9							
Number of DC poles						4	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal screv	vs M4 (min	max.)			1,5	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of si	ngle hole mo	unting				IP65	
Positions			12 (OFF) and 3	o'clock (ON)			
Actuator			Standard A kno	b with long	screw to	fix in shaft	
Method of operation			Independent m	anual opera	tion		
Actuator operation force (max.)						1,4	Nm
Tightening torque M3 screw in the	ne actuator (min max.)			0,5	- 0,4	Nm
Rated impulse withstand voltage			Uimp			8	kV
Insulation voltage			Ui			1000	V
Rated thermal current uninterru	pted duty		lu			45	Α
Rated short-time withstand curre	ent (1s)		Icw			700	Α
Rated short-circuit making capac	ity		Icm			1,4	kA
Rated conditional short-circuit cu	ırrent		Isc			5	kA
Minimum required dimensions o	f enclosures	L x W x D* {s	pace envelope}		124 x	47 x 71	mm
* see the drawing for the height	of the switch	n. The numbe	r of layers N is:			2	
Weight						ca. 211	g
Allowed ambient temperature (n	nin max.)		Tambient			-40 – 70	°C
Allowed storage temperature (m	in max.)		$T_{storage}$			-40 – 85	°C
Relative humidity (max.), withou	t condensati	on at 20°C	RH			90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	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	Sumbol	Symbol Rear Sid		F	osi	S			
No.	Left	Right	Зуппоот	Left	Right	1	2	3	4		
7											
6											
5	+2			+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.

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

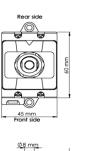
The terminals, can take copper wires up to 6 mm². The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

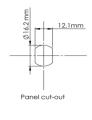
^{*1 16}mm² only with fine stranded wire (or two times 6mm²)

^{*2} Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00



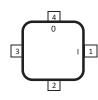
Data Sheet XBHP0610/2

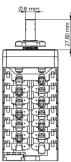


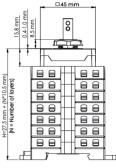


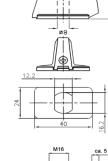
















			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
			Terminals:	Scheme	2		
Layer	Fron	t Side	Symbol	Rear	Side	P	0:
No.	Left	Right	Эунион	Left	Right	1	2
7	-3			3		1	
6		+3			+3	1	

Technical data	Symbol	Ratings:		1	11	III	Unit
Rated operational voltage	Ue			1000	800	500	V dc
Rated operational current	le			20	30	45	A dc
Required fine wire cross-section	n (minimal)*:			4,0	6,0	10,0	mm²
*IEC60947-1, table 9							
Number of DC poles						6	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal scr	ews M4 (min	- max.)			1,5	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of	single hole mo	ounting				IP65	
Positions			12 (OFF) and 3	o'clock (ON)			
Actuator			Standard A kno	ob with long	screw to f	ix in shaft	
Method of operation			Independent n	nanual opera	tion		
Actuator operation force (max	.)					1,4	Nm
Tightening torque M3 screw in	the actuator (min max.)			0,5 -	- 0,7	Nm
Rated impulse withstand volta	ge		Uimp			8	kV
Insulation voltage			Ui			1000	V
Rated thermal current uninter	rupted duty		lu			45	Α
Rated short-time withstand cu	rrent (1s)		Icw			700	Α
Rated short-circuit making cap	acity		Icm			1,4	kA
Rated conditional short-circuit	current		Isc			5	kA
Minimum required dimensions	of enclosures	L x W x D* {space	e envelope}		124 x	47 x 92	mm
* see the drawing for the heigh	nt of the switch	n. The number o	flayers N is:			6	
Weight						ca. 274	g
Allowed ambient temperature	(min max.)		Tambient			40 – 70	°C
Allowed storage temperature (min max.)		T _{storage}			40 – 85	°C
Relative humidity (max.), with	out condensati	on at 20°C	RH			90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	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
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Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

			Terminals:	Scheme	2				
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Зуппьог	Left	Right	1	2	3	4
7	-3			-3		1			0
6		+3	<u> </u>		+3	1			0
5	+2			+2		1			0
4		-2			-2	1			0
3	-1		O	-1		1			0
2		+1	<u></u>		+1	1			0
1			Empty						
	/1	C	. : 0	C					

(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.

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

^{*2} Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00