





	4		
	0		
_			
3		- 1	1
	2		

			Terminals S	chomo		2			
Layer	From	t Side			Side	F	Posi	tion	s
No.	Left	Right	Symbol	Left	Right	1	2	3	4
140.	Lere	TUBILC		Lere	Tugric	-	2	5	-
9						-	-		-
8									
7									
6									
5									
4									
3	-1			· -1		Т			0
2		+1			+1	Т			0
1			Empty						
	(1 :	= Contac	t is closed. C	= Cont	act is on	en)			

ntact is closed, O = Contact is open)

Technical data	Symbol	Ratings:		П	Ш		IV	Unit
Rated operational voltage	Ue		1100	1000	800		500	V dc
Rated operational current	le		10	16	25		50	A dc
Required fine wire cross-sectior	(minimal)*:		2,5	2,5	4		10	mm²
*IEC60947-1, table 9								
Number of DC poles							2	
Utilization category DC						D	C-PV1	
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	ingle hole mou	nting					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 long s	crew to f	ix in	shaft	
Method of operation			Independent mar	nual operat	ion			
Actuator operation force (max.)							1,4	Nm
Tightening torque M3 screw in t	he actuator (m	nin max.)			0,50	-	0,70	Nm
Rated impulse withstand voltag	e		Uimp				8	kV
Insulation voltage			Ui				1100	V
Rated thermal current uninterru	upted duty		lu				50	А
Rated short-time withstand curr	rent (1s)		Icw				700	А
Rated short-circuit making capa	city		Icm				1	kA
Rated conditional short-circuit o	urrent		lsc				5	kA

finimum required dimensions of enclosures L x W x D* {space envelope}				47	х	50	mm
* see the drawing for the height of the switch. The number of	layers N is:		2				
Weight					са	149	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 (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

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

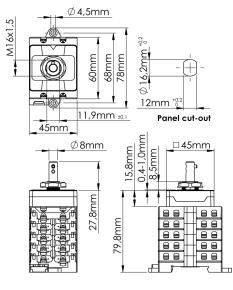
The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

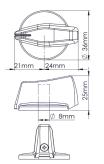
*1 16mm² only with fine stranded wire (or two times 6mm²)

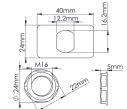
*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

XBE+0410/2

HIIIIIII santon









			Terminals S	cheme					
Layer	Fron	t Side	Symbol	Rear	Side	F	osi	tion	s
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						
	(1 -	- Contac	t is closed. C	- Cont	act is on	on)			

(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

90

%

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 $6mm^2$)

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

The tolerances for the Santon	datasheet are a	ccording to ISO	1101, ISO 8	8015, ISO 2	2768 1 class m,	unless stated othe	erwise.

Technical data	Symbol	Detinger			III.		IV	Unit
Rated operational voltage	Ue	Ratings:	1100	1000	800		500	V dc
Rated operational current	le		100	1000	25		500	A dc
	le		10	10	25		50	Auc
Required fine wire cross-section	(minimal)*:		2,5	2,5	4		10	mm²
*IEC60947-1, table 9	. (,-	7-			-	
Number of DC poles							4	
Utilization category DC						D	C-PV1	
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							IP65	
Tightening torque panel mounti	ing nut (min	max.)			2,0	-	2,5	Nm
Panel thickness between					1	-	4	mm
Positions			12 (OFF) and 3 o					
Actuator			Standard A knob	-		nx in	shaft	
Method of operation			Independent ma	nual operat	tion			
Actuator operation force (max.)							1,4	Nm
Tightening torque M3 screw in t	the actuator (n	nin max.)			0,50	-	0,70	Nm
Rated impulse withstand voltag	e		Uimp				8	kV
Insulation voltage			Ui				1100	V
Rated thermal current uninterru	upted duty		lu				50	А
Rated short-time withstand curr	rent (1s)		Icw				700	А
Rated short-circuit making capa	city		Icm				1	kA
Rated conditional short-circuit of	current		Isc				5	kA
Minimum required dimensions	of enclosures I	. x W x D* {spa	ace envelope}	124 >	x 47	х	71	mm
* see the drawing for the height	of the switch.	The number of	of layers N is:				4	
Weight						Ca	a. 211	g
Allowed ambient temperature (min max.)		Tambient		-40	-	70	°C
Allowed storage temperature (n	nin max.)		Tstorage		-40	-	85	°C

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

RH

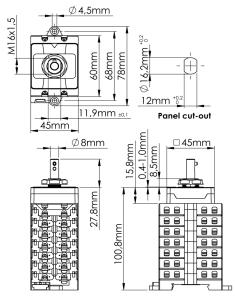
Relative humidity (max.), without condensation at 20°C

JD Auspice Co., Ltd. TEL: 886-2-2595-9780 FAX: 886-2-2595-9412 service@jdauspice.com www.jdauspice.com

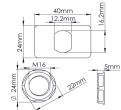
XBE+0610/2

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

HIIIIIII santon







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	11	Ш		IV	Unit
Rated operational voltage	Ue		1100	1000	800		500	V dc
Rated operational current	le		10	16	25		50	A dc
Required fine wire cross-section	(minimal)*:		2,5	2,5	4		10	mm²
*IEC60947-1, table 9	r (iiiiiiiiiiai) .		2,3	2,5	4		10	
Number of DC poles							6	
Utilization category DC						DC	-PV1	
Pollution degree							2	
IP rating terminals							IP20	
Tightening torque terminal scre	ws M4 (min r	nax.)			1,5	-	1,7	Nm
Method of mounting								
IP rating of the shaft in case of s	ingle hole mou	nting					IP65	
Tightening torque panel mounti	-	-			2,0	_	2,5	Nm
Panel thickness between		,			1	_	4	mm
Positions			12 (OFF) and 3 o'd	lock (ON)				
Actuator			Standard A knob	with long s	crew to f	ix in	shaft	
Method of operation			Independent mar	ual operat	ion			
Actuator operation force (max.)			·				1,4	Nm
Tightening torque M3 screw in t	the actuator (m	in max.)			0,50	-	0,70	Nm
Rated impulse withstand voltag	e		Uimp				8	kV
Insulation voltage			Ui				1100	V
Rated thermal current uninterru	upted duty		lu				50	Α
Rated short-time withstand curr	rent (1s)		Icw				700	Α
Rated short-circuit making capa	city		Icm				1	kA
Rated conditional short-circuit of	current		Isc				5	kA
Minimum required dimensions	of enclosures L	x W x D* {space	e envelope}	124 x	47	х	92	mm
* see the drawing for the height	of the switch.	The number of	layers N is:				6	
Weight						са	. 274	g
Allowed ambient temperature (min max.)		Tambient		-40	-	70	°C
Allowed storage temperature (r			Tstorage		-40	-	85	°C
Relative humidity (max.), witho	ut condensatio	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	10,5mm ² -16mm ² * ¹	*2



			Terminals S	cheme					
Layer	Fron	t Side	Symbol	Rear Side		P	osi	tion	S
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9									
8									
7	-3			-3		Т			0
6		+3			+3	Т			0
5	+2			+2		Т			0
4		-2			-2	Т			0
3	-1			-1		Т			0
2		+1			+1	Т			0
1			Empty						
	/1 -	- Contac	t is closed O	- Cont	act is on	001			

(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.

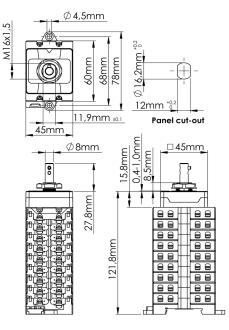
Connection

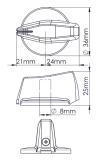
The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

*1 16mm² 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







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:	I				IV	Unit		
Rated operational voltage	Ue		1100	1000	800		500	V dc		
Rated operational current	le		10	16	25		50	A dc		
Required fine wire cross-section	n (minimal)*:		2,5	2,5	4		10	mm²		
*IEC60947-1, table 9										
Number of DC poles							8			
Utilization category DC						DC	C-PV1			
Pollution degree							2			
IP rating terminals							IP20			
Tightening torque terminal scre	ews M4 (min)	max.)			1,5	-	1,7	Nm		
Method of mounting										
IP rating of the shaft in case of	single hole mou	Inting					IP65			
Tightening torque panel mount	ing 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				nob with long screw to fix in shaft						
Method of operation			Independent ma	nual operat	ion					
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	ge		Uimp				8	kV		
Insulation voltage			Ui				1100	V		
Rated thermal current uninterr	upted duty		lu				50	Α		
Rated short-time withstand cur	rent (1s)		Icw				700	Α		
Rated short-circuit making capa	acity		Icm				1	kA		
Rated conditional short-circuit	current		lsc				5	kA		
Minimum required dimensions of enclosures L x W x D* {space envelope}			e envelope}	124 >	4 7	х	92	mm		
* see the drawing for the height of the switch. The number of layers N is:							6			
Weight						ca	274	ø		

	C	a. 274	g
Tambient	-40 —	70	°C
Tstorage	-40 —	85	°C
RH		90	%
	Tstorage	Tambient-40-Tstorage-40-	Tstorage -40 – 85

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



Terminals Scheme									
Layer	Fron	t Side Symbol		Rear Side		Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9	+4			+4		Т			0
8		-4		•	-4	Т			0
7	-3			· -3		Т			0
6		+3			+3	Т			0
5	+2			+2		Т			0
4		-2			-2	Т			0
3	-1			· -1		Т			0
2		+1		•	+1	Т			0
1			Empty						
$(I = Contact is closed \Omega = Contact is open)$									

(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

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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 16mm² 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