

# SXCS Stainless Steel Control Stations

IP66

## Material

Stainless Steel 316L (1.4404)

## Certification

Ex db eb IIC T5 Gb

Ex eb IIC T5 Gb (Ammeter only)

Ex tb IIIC T100°C Db

Typical ambient ranges:

-40°C to +40°C or -40°C to +55°C

Note: Alternative T rating and ambient ranges available, please refer to certificates



Configuration options (see typical layout drawings overleaf)

Part Number	Width (mm)	Height (mm)	Depth (mm)		Maximum Populations Guidance*		
			Min	Max	Operators Only	Ammeters/ Voltmeter Only	Operators & Am/Voltmeters
SXCS66	152	152	102 (Nominal)		1 x Op	N/A	N/A
SXCS0	152	229	140	500	2 x Op	N/A	N/A
SXCS0.5	184	274	140	500	3 x Op	2 x Am	1 x Op, 1 x Am
SXCS1	234	324	140	500	8 x Op	2 x Am	2 x Op, 2 x Am
SXCS1.5	306	306	140	500	9 x Op	4 x Am	6 x Op, 2 x Am
SXCS2	372	324	140	500	16 x Op	4 x Am	8 x Op, 3 x Am
SXCS3	372	448	140	500	24 x Op	12 x Am	12 x Op, 6 x Am
SXCS4	372	510	140	500	28 x Op	12 x Am	16 x Op, 6 x Am
SXCS5	510	510	140	500	42 x Op	16 x Am	24 x Op, 8 x Am
SXCS6	510	780	140	500	Details available upon request		
SXCS7	650	950	140	500			
SXCS8	800	1250	140	500			

\* Based on 2 pole operators. 4 pole options are available, please contact sales for more information.

Available operator, ammeter, voltmeter and terminal types (see parts list for full details)

Push Button	Momentary, 1NC/1NO, 2NC or 2NO contacts. Coloured/marked inserts as required
Emergency Stop	Push-Pull, Twist-to-release or Key Release, 1NC/1NO, 2NC or 2NO contacts. Red/yellow mushroom head. Also available with padlockable guard.
Mushroom Head	Momentary, 1NC/1NO, 2NC or 2NO contacts. Colour: black, green or red.
Indicator Lamp	Red/green/yellow/blue or white available
Illuminated Push Button	Red/green/yellow/blue or white available. Available with 1NC or 1NO contacts
Selector Switch	2 or 3 position. 2-pole contact configurations and label inserts to suit application Small switch handle (39mm dia) as standard. Large handle (60mm dia) also available
Key Switch	2 or 3 position. 2-pole contact configurations to suit application
Ammeter	Direct measuring with x2 overload scale (max scale: 0-15A/30A) 1A or 5A current transformer with x2 or x5 overload scale (max scale: 0-600A/3000A)
Voltmeter	Several measuring ranges available from 0-25Vac to 0-500Vac
Terminals	Direct termination as standard, 2.5/4mm <sup>2</sup> Ex screw terminals fitted where requested

## Maximum cable entries

	Top or Bottom face c/w removable gland plate				Side face c/w removable gland plate			
	M20	M25	M32	M40	M20	M25	M32	M40
SXCS66	2	2	-	-	2	1	-	-
SXCS0.140	2	2	1	1	6	3	2	2
SXCS0.5.140	4	2	2	1	8	4	3	2
SXCS1.140	6	3	2	2	10	5	4	3
SXCS1.5.140	10	5	4	3	10	4	3	3
SXCS2.140	14	6	5	4	10	5	4	3
SXCS3.140	14	6	5	4	16	8	6	5
SXCS4.140	14	6	5	4	20	10	7	6
SXCS5.140	20	10	7	6	20	10	7	6
SXCS6.140	20	10	7	6	34	18	11	10
SXCS7.140	28	14	10	8	42	22	14	12
SXCS8.140	36	18	12	10	58	30	20	17

## Ordering information

Example Spec Code:

SXCS[1.5]/[6-2]/[T]

P1 = COP17103

P2 = COP370

P3 = COK87005

P4 = COP17123

P6 = COK47003

A1 = CAM7WA\*\*/5-2 & CZ0205-0-25/5-2

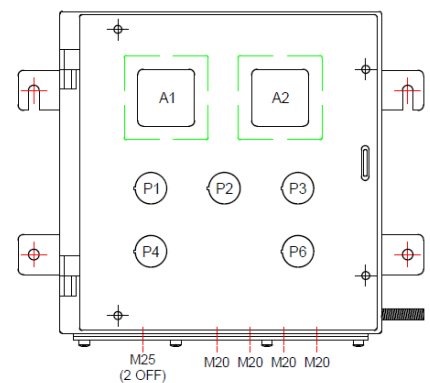
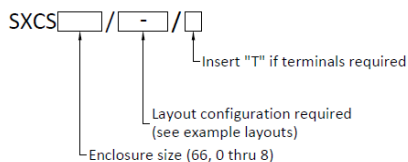
A2 = CAM7WA\*\*/5-2 & CZ0205-0-50/5-2

T = 32 x SAK 2.5 Ex

ENTRIES = 2 x 25.5mm, 4 x 20.5mm bottom side

SXCS1.5 control station (306x306x140mm), fitted with:

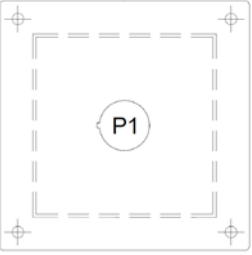
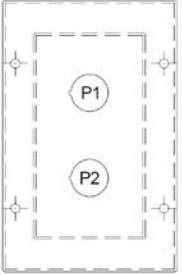
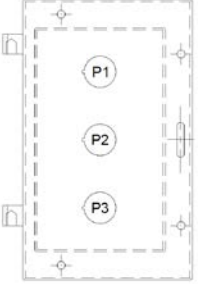
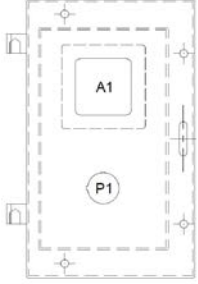
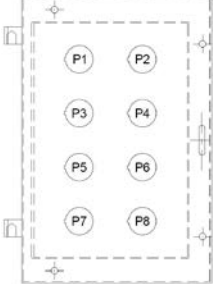
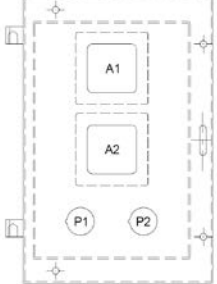
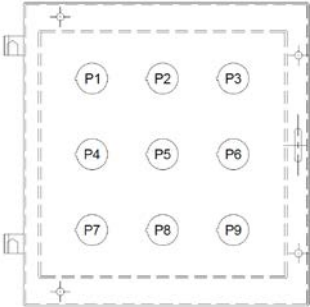
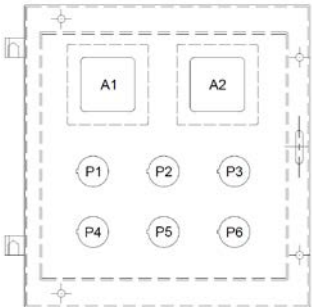
- 1 off Momentary pushbutton, 2NC contacts, green "ON" label insert
- 1 off Push-Pull mushroom head emergency stop, 1NC/1NO contacts
- 1 off 3-position selector switch, "0 • I" label insert
- 1 off Momentary pushbutton, 2NC contacts, red "OFF" label insert
- 1 off 3-position selector switch, "0 I II" label insert
- 1 off 5A ammeter for connection to CT, 0-25A measuring scale with x2 overload scale (50A)
- 1 off 5A ammeter for connection to CT, 0-50A measuring scale with x2 overload scale (50A)
- 32 off SAK 2.5 Ex terminals rail mounted
- 2 off 25.5mm & 4 off 20.5mm entries in gland plate on bottom side of enclosure


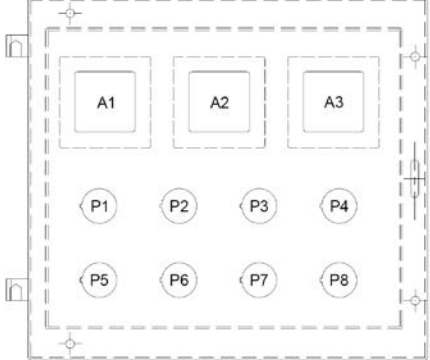
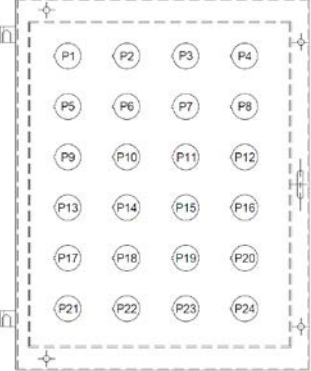
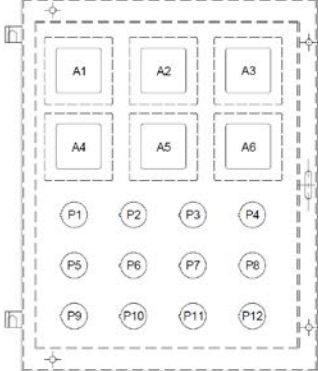
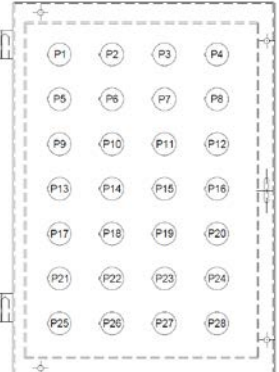
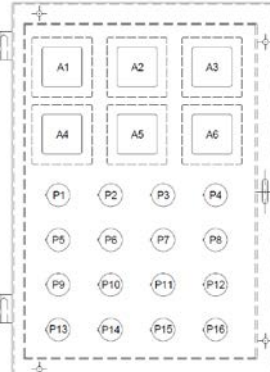
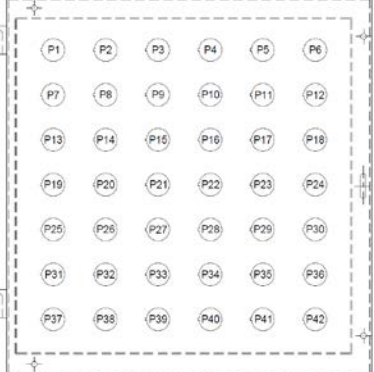
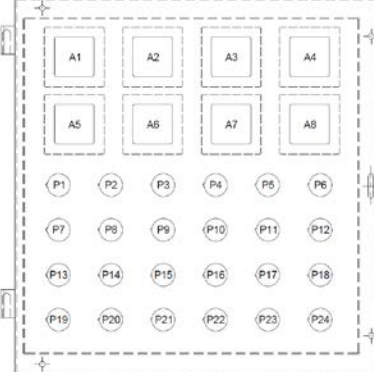


## Electrical data

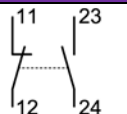

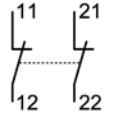
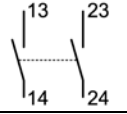

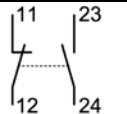

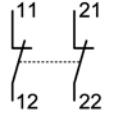
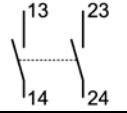

Contact Block for: Push Button Emergency Stop Mushroom Head Selector / Key Switch	Utilization category (per BS EN 60947-1)	AC12	AC15	DC13	
	Rated voltage	250V		110V	
	Rated current	16A		1A	
	Maximum ambient temperature	+60°C		+60°C	
Indicator Lamp Module	Suitable for 20-250Vac/dc supply. Alternative supply option: 250-400Vac				
Illuminated Push Button Module	Utilization category (per BS EN 60947-1)	AC15	DC13		
	Rated voltage	250V		24V	
	Rated current	10A		1A	
	Maximum ambient temperature	+60°C		+60°C	
Terminals	Lamp suitable for 20-250Vac/dc supply				
	Terminal type	AKZ 2.5	AKZ 4	SAK 2.5	SAK 4
	Maximum cable size	2.5mm <sup>2</sup>	4mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>
	Maximum voltage	176V	275V	550V	550V
	Maximum current	15A**	28A	15A**	28A

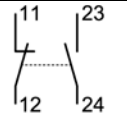

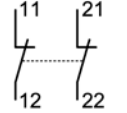

\*\*limited as per hazardous area certificate

OPERATORS ONLY		OPERATORS & AMMETERS/VOLTMETERS	
 <p data-bbox="339 510 496 544">SXCS66/1-0</p>	ABT31095		
 <p data-bbox="347 878 488 911">SXCS0/2-0</p>	ABT31096		
 <p data-bbox="336 1243 502 1276">SXCS0.5/3-0</p>	ABT31097	 <p data-bbox="1026 1243 1192 1276">SXCS0.5/1-1</p>	ABT31098
 <p data-bbox="347 1612 488 1646">SXCS1/8-0</p>	ABT31099	 <p data-bbox="1034 1612 1187 1646">SXCS1/2-2</p>	ABT31100
 <p data-bbox="336 2000 502 2033">SXCS1.5/9-0</p>	ABT31101	 <p data-bbox="1026 2000 1192 2033">SXCS1.5/6-2</p>	ABT31102

OPERATORS ONLY		OPERATORS & AMMETERS	
 <p data-bbox="343 560 494 593"><b>SXCS2/16-0</b></p>	ABT31103	 <p data-bbox="1037 560 1173 593"><b>SXCS2/8-3</b></p>	ABT31104
 <p data-bbox="343 1019 494 1052"><b>SXCS3/24-0</b></p>	ABT31105	 <p data-bbox="1029 1019 1181 1052"><b>SXCS3/12-6</b></p>	ABT31106
 <p data-bbox="343 1489 494 1523"><b>SXCS4/28-0</b></p>	ABT31107	 <p data-bbox="1029 1489 1181 1523"><b>SXCS4/16-6</b></p>	ABT31108
 <p data-bbox="343 1960 494 1993"><b>SXCS5/42-0</b></p>	ABT31109	 <p data-bbox="1029 1960 1181 1993"><b>SXCS5/24-8</b></p>	ABT31110

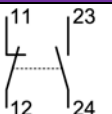

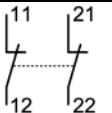

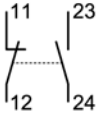

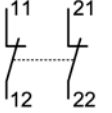
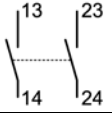

Momentary Push Buttons

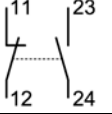

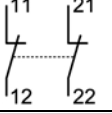

Part Code	Part Description	Contact Configuration	Typical Part Image					
COP170xx	P1 Push button, 1NC/1NO contacts	 1NC/1NO						
COP171xx	P1 Push button, 2NC contacts	 2NC						
COP172xx	P1 Push button, 2NO contacts	 2NO						
<p><b>OPTION: Add suffix G to the above P1 part codes to include a padlockable guard eg. COP170xxG</b></p> <p>Note: Padlock not included</p>								
COP270xx/xx	P2 Double Push button, 1NC/1NO contacts	 1NC/1NO						
COP271xx/xx	P2 Double Push button, 2NC contacts	 2NC						
COP272xx/xx	P2 Double Push button, 2NO contacts	 2NO						
	<b>CODE</b>	<b>LEGEND</b>	<b>LABEL COLOUR</b>	<b>TEXT COLOUR</b>	<b>CODE</b>	<b>LEGEND</b>	<b>LABEL COLOUR</b>	<b>TEXT COLOUR</b>
	01	"BLANK"	Green	N/A	41	"BLANK"	White	N/A
	02	I	Green	White	42	II	White	Black
	03	ON	Green	White	43	↑	White	Black
	04	START	Green	White	44	START	White	Black
	21	"BLANK"	Red	N/A	45	STOP	White	Red
	22	O	Red	White	46	FW	White	Black
	23	OFF	Red	White	47	BW	White	Black
	24	STOP	Red	White	49	↑↑	White	Black
	61	"BLANK"	Yellow	N/A	81	"BLANK"	Black	N/A
	62	II	Yellow	White				

Part Code	Part Description	Contact Configuration	Typical Part Image
COP4G70	Momentary mushroom head button (P4G Green), 1NC/1NO contacts	 1NC/1NO	
COP4G71	Momentary mushroom head button (P4G Green), 2NC contacts	 2NC	
COP4G72	Momentary mushroom head button (P4G Green), 2NO contacts	 2NO	


**OPTION: Also available in Black (P4B) or Red (P4R)**

## Emergency Stop Buttons

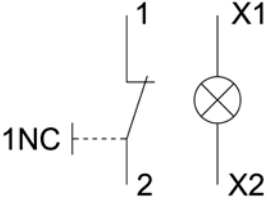

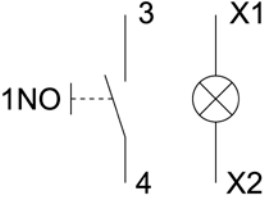
Part Code	Part Description	Contact Configuration	Typical Part Image
COP370	P3 E-stop mushroom head, pull to release, 1NC/1NO contacts	 11 23 12 24 1NC/1NO	
COP371	P3 E-stop mushroom head, pull to release, 2NC contacts	 11 21 12 22 2NC	
COP372	P3 E-stop mushroom head, pull to release, 2NO contacts	 13 23 14 24 2NO	
COP670	P6 E-stop mushroom head, twist to release, 1NC/1NO contacts	 11 23 12 24 1NC/1NO	
COP671	P6 E-stop mushroom head, twist to release, 2NC contacts	 11 21 12 22 2NC	
COP672	P6 E-stop mushroom head, twist to release, 2NO contacts	 13 23 14 24 2NO	
<b>OPTION: Add suffix G to the above part codes to include a padlockable guard eg. COP370G</b> Note: Padlock not included			

Part Code	Part Description	Contact Configuration	Typical Part Image
ABCS/SX CS COY2170	Y21 E-stop mushroom head, key release, 1NC/1NO contacts	 11 23 12 24 1NC/1NO	
ABCS/SX CS COY2171	Y21 E-stop mushroom head, key release, 2NC contacts	 11 21 12 22 2NC	
ABCS/SX CS COY2172	Y21 E-stop mushroom head, key release, 2NO contacts	 13 23 14 24 2NO	


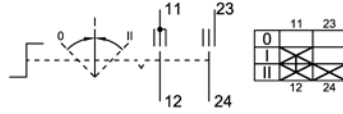










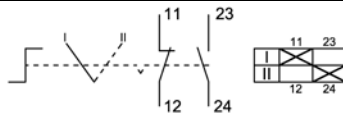



## Indicator Lamps

Part Code	Part Description	Voltage Range	Typical Part Image
CLLR7R1	Indicator lamp, <b>Red</b> (24-240Vac, 24-35Vdc)	20 - 250V AC/DC	
CLLG7G1	Indicator lamp, <b>Green</b> (24-240Vac, 24-35Vdc)		
CLLY7Y1	Indicator lamp, <b>Yellow</b> (24-240Vac, 24-35Vdc)		
CLLB7B1	Indicator lamp, <b>Blue</b> (24-240Vac, 24-35Vdc)		
CLLW7W1	Indicator lamp, White (24-240Vac, 24-35Vdc)		
CLLR7R2	Indicator lamp, <b>Red</b> (220-380Vac)	250 - 400V AC	
CLLG7G2	Indicator lamp, <b>Green</b> (220-380Vac)		
CLLY7Y2	Indicator lamp, <b>Yellow</b> (220-380Vac)		
CLLB7B2	Indicator lamp, <b>Blue</b> (220-380Vac)		
CLLW7W2	Indicator lamp, White (220-380Vac)		

## Illuminated Push Buttons

Part Code	Part Description	Contact Configuration/Voltage Range	Typical Part Image
COPR73R1	Illuminated Push Button, <b>Red</b> (1NC)	 <p>20 - 250V AC/DC</p>	
COPG73G1	Illuminated Push Button, <b>Green</b> (1NC)		
COPY73Y1	Illuminated Push Button, <b>Yellow</b> (1NC)		
COPB73B1	Illuminated Push Button, <b>Blue</b> (1NC)		
COPW73W1	Illuminated Push Button, White (1NC)		
COPR74R1	Illuminated Push Button, <b>Red</b> (1NO)	 <p>20 - 250V AC/DC</p>	
COPG74G1	Illuminated Push Button, <b>Green</b> (1NO)		
COPY74Y1	Illuminated Push Button, <b>Yellow</b> (1NO)		
COPB74B1	Illuminated Push Button, <b>Blue</b> (1NO)		
COPW74W1	Illuminated Push Button, White (1NO)		

## Small Handle Selector Switches

Part Code	Part Description	Label	Contact Schematic	Typical Part Image
COK47003	K4 3-position small handle, self-reset, "0-I-II"			
COK47204	K4 3-position small handle, self-reset, "I-0-II"			
COK57204	K5 3-position small handle, self-lock, "I-0-II"			
COK57003	K5 3-position small handle, self-lock, "0-I-II"			
COK67201	K6 2-position small handle, self-lock, "0-I"			
COK67002	K6 2-position small handle, self-lock, "I-II"			
COK87005	K8 3-position small handle, self-lock/reset, "0-•-I"			
<p><b>OPTION: Add suffix G to the above part codes to include a padlockable guard eg. COK47003G</b></p> <p>Note: Padlock not included</p>				




## Large Handle Selector Switches

Part Code	Part Description	Label	Contact Schematic	Typical Part Image
COS47003	S4 3-position large handle, self-reset, "0-I-II"			
COS47204	S4 3-position large handle, self-reset, "I-0-II"			
COS57003	S5 3-position large handle, self-lock, "0-I-II"			
COS57204	S5 3-position large handle, self-lock, "I-0-II"			
COS67002	S6 2-position large handle, self-lock, "I-II"			
COS67201	S6 2-position large handle, self-lock, "0-I"			
COS87005	S8 3-position large handle, self-lock/reset, "0-•-I"			

## Key Switches


Part Code	Part Description	Label	Contact Schematic	Typical Part Image
COY5170	Y51 3-position key switch, self-lock, "I-0-II"			
COY5172	Y51 3-position key switch, self-lock, "I-0-II"			
COY6170	Y61 2-position key switch, self-lock, "0-I"			
COY6172	Y61 2-position key switch, self-lock, "0-I"			

## Ammeters

Part Code		Measuring Method	Measuring Range	Overload Scale	Typical Part Image	
ABCS/SX	CAM7WAxx/1-2	1A CT current transformer	See scales below	x2		
PCS	CAM6WAxx/1-2					
ABCS/SX	CAM7WAxx/1-5	1A CT current transformer	See scales below	x5		
PCS	CAM6WAxx/1-5					
ABCS/SX	CAM7WAxx/5-2	5A CT current transformer	See scales below	x2		
PCS	CAM6WAxx/5-2					
ABCS/SX	CAM7WAxx/5-5	5A CT current transformer	See scales below	x5		
PCS	CAM6WAxx/5-5					
<b>Ammeter Scale Options -</b>						
CACZ0205-0-1A/□-□		1A or 5A current transformer	0--1A	2A or 5A		
CACZ0205-0-2.5A/□-□			0--2.5A	5A or 12.5A		
CACZ0205-0-5A/□-□			0--5A	10A or 25A		
CACZ0205-0-15A/□-□			0--15A	30A or 75A		
CACZ0205-0-25A/□-□			0--25A	50A or 125A		
CACZ0205-0-40A/□-□			0--40A	80A or 200A		
CACZ0205-0-50A/□-□			0--50A	100A or 250A		
CACZ0205-0-60A/□-□			0--60A	120A or 300A		
CACZ0205-0-75A/□-□			0--75A	150A or 375A		
CACZ0205-0-100A/□-□			0--100A	200A or 500A		
CACZ0205-0-150A/□-□			0--150A	300A or 750A		
CACZ0205-0-200A/□-□			0--200A	400A or 1000A		
CACZ0205-0-250A/□-□			0--250A	500A or 1250A		
CACZ0205-0-300A/□-□			0--300A	600A or 1500A		
CACZ0205-0-400A/□-□			0--400A	800A or 2000A		
CACZ0205-0-500A/□-□			0--500A	1000A or 2500A		
CACZ0205-0-600A/□-□			0--600A	1200A or 3000A		

↑ "2" or "5" (x2 or x5 overload scale)  
 ↑ "1" or "5" (1A or 5A current transformer)

## Voltmeters

Part Code	Measuring Range	Typical Part Image
ABCS/SXCS	CVM7V25- EXM	
	0-25V AC	
ABCS/SXCS	CVM7V40-EXM	
	0-40V AC	
ABCS/SXCS	CVM7V150-EXM	
	0-150V AC	
ABCS/SXCS	CVM7V250-EXM	
	0-250V AC	
ABCS/SXCS	CVM7V500-EXM	0-500V AC