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SX

Stainless Steel and Mild Steel Enclosures

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Stainless Steel and Mild Steel Enclosures

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SX Range

The SX range comprises 14 sizes of enclosure manufactured in either mild steel or stainless steel. 11 sizes are available in depths of 140 or 200mm and 8 sizes are available in depths of 140, 200 or 300mm. The majority of the range can be fitted with removable gland plates on any or all of the four sides. The mild steel version (MSX) is available with a number of paint options (most RAL colours are available) and anti-corrosion finishes. Further advice on surface finishes can be sought from the ABTECH sales office.



The stainless steel range (SSX) is manufactured in 316 grade stainless steel to give the maximum environmental protection. The main body is manufactured from 2mm thick sheet and the mounting straps and gland plates from 3mm thick plate. Cable entries can be drilled in the enclosure door or sides or through the gland plates, if fitted. Entries may also be drilled through the rear face of the enclosure (EEEx'e' versions also.)

Another important feature of the SX range is the hinged, lift-off door, which is held to the enclosure by at least 4 captive stainless steel screws, which also maintain the correct compression on the gasket. The hinges are solid block, machined oversize to enable the screws to control the closing of the door, not the hinge, its only function being to support the door when opened. The hinges allow easy removal of the door with only minimal opening required before removal (less than 10°).

Earthing is accomplished by means of an Internal / external earth stud fitted as standard which can be connected to the terminal mounting rail or component mounting plate. Optionally, earth studs can be fitted to the door and gland plates. Rail mounted earth terminals or proprietary earth bars can be fitted inside the enclosure and ABTECH Sales staff will be happy to advise on this. When fitted with a standard neoprene gasket, the enclosure is suitable for ambient temperatures of - 40°C to + 80°C. Alternatively, when fitted with an optional silicone gasket the temperature range is increased to - 70°C to + 130°C.

The SX range of enclosures are suitable for use in hazardous areas and can be supplied with a number of certificates. ATEX EEEx'e' to BS EN 50019 (Zone 1 & 2) EEEx'nA' to BS EN50021 (Zone 2) and NEMA 4X (CSA, UL & FM class 1, div 2) and GOST.



The SX range can be supplied fitted with any component approved terminal to apparatus level or can be supplied empty as component approved for the clients own certification requirements.

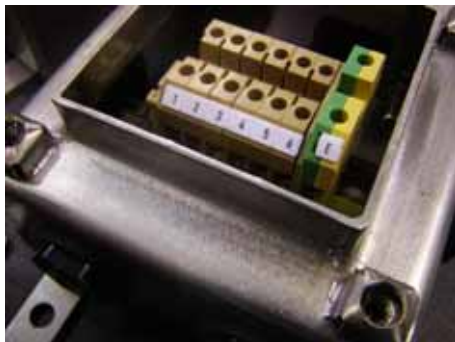
The SX range was specifically designed to meet the rigours of the North Sea environment and is capable of achieving IP66 and IP67. It has also undergone and passed the Shell/ERA deluge test which was devised to adequately test enclosures and electrical equipment which is routinely subjected to ships deck conditions or fire deluge systems.

IP68 enclosures are also available for depths up to 120 ft to special order. Further information on submersible enclosures is available in Section 8 of this catalogue.



The SX range has many features which lend itself to a wide variety applications, not least of which is the ability to be constructed to almost any dimension due to its fabricated nature. This can also be applied to EEx'e' enclosures where the certification allows oversize enclosures to be manufactured whilst retaining the next smallest sized enclosure's power rating.

The SX range is also suitable for fire resistance applications and when fitted with ceramic terminals meets the requirements of IEC 331 (750°C for 3 hours) and also BS6387/1983 (950°C for 3 hours). Further details are available in Section 6 of this catalogue.



Other applications include junction boxes, both industrial and hazardous area, OEM applications, fire protection systems, tunnel wiring, IP68 applications, etc.

SX Range Features

- Wide Operating Temperature (- 70°C to + 130°C)
- Ingress Protection up to IP68
- Fire Resistant to IEC331
- Impact Resistant > 10 Nm
- Corrosion Resistant
- Gland plates can be fitted to any or all four sides (size SX0 and above)
- Certification for use in Zone 1 and 2
- UL, CSA, ATEX and GOST Approvals
- Ideal for Petrochemical and Marine applications

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Accessories and Options

The following table is a list of the available accessories suitable for particular standard sizes of SX enclosures. Care should be taken when ordering accessories for use with enclosures intended for hazardous areas to ensure that compliance with certification is retained.

Part Number (see note 1)	Width (mm) (see note 2)	Height (mm) (see note 2)	Depth (mm) (see note 2)	140mm Depth	200mm Depth	300mm Depth	Gland Plates (on any or all four sides)	EP – Electro-polished external surfaces (SX range only)	LB - Label Bracket Welded to Door	ES - Earth Stud fitted to Door and Gland Plates	EB - Internal Earthing Bar	SIL - Silicone Gasket (see note 3)	BD - Breather Drain (see note 4)	TP - Tamper Proof Lid Fixing Screws	MP - Component Mounting Plate (Steel/Stainless Steel)	RF – RFI Protection (see note 5)
SX45	114	114	51	✗	✗	✗	✗	✓	✓	✗	✗	✓	✓	✓	✓	✓
SX64	102	152	63	✗	✗	✗	✗	✓	✓	✗	✗	✓	✓	✓	✓	✓
SX66	152	152	102	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX0	152	229	-	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX0.5	184	274	-	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX1	234	324	-	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX1.5	306	306	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX2	372	324	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX3	372	448	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX4	372	510	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX5	510	510	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX6	510	780	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX7	650	950	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SX8	800	1250	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ordering Example;

SX1.5 300 4GP LB EB

(Stainless Steel SX1.5 300mm deep, 4 gland plates, label bracket on door and internal earthing bar)

1. The range is available either in stainless steel 316 (SX variants) or mild steel (MSX variants).
2. Manufacturing tolerances are +/- 3mm on overall dimensions and +/-0.5mm on fixing hole centres.
3. Silicone gasket increases temperature rating (-70° to +130° C) and may increase working life in some applications.
4. Breather drain available in IP66 stainless steel or plastic.
5. Radio Frequency Interference (RFI) gasket may reduce IP rating.

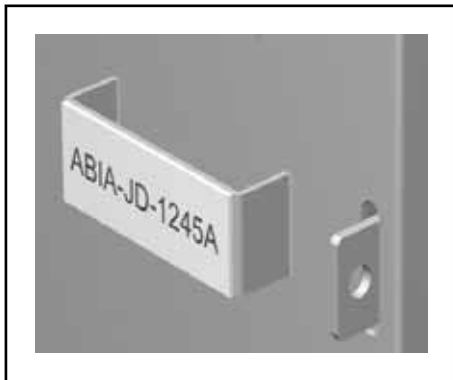
Stainless Steel and Mild Steel Enclosures



Full width, full height Gland Plates
(can be fitted to any or all sides)



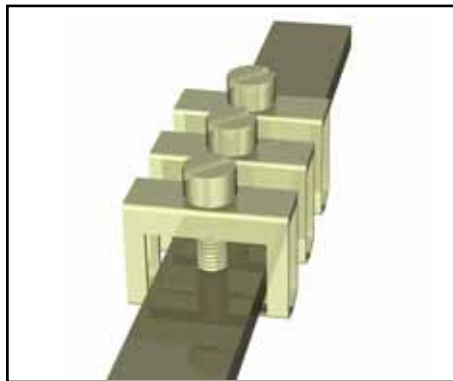
Earth Stud fitted to door and gland plates



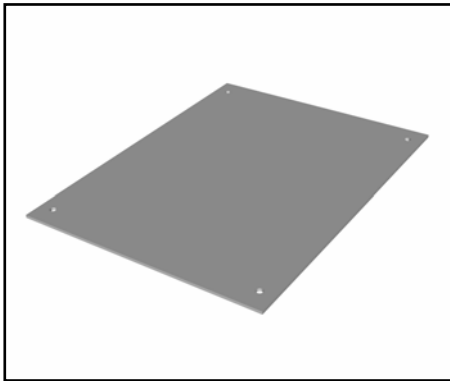
Label Bracket
(welded to door)



Electro-polished
(external surfaces on SX range only)



Internal Earthing bar
(can be fitted with clamps)



Component Mounting Plate
(steel or stainless steel 316)

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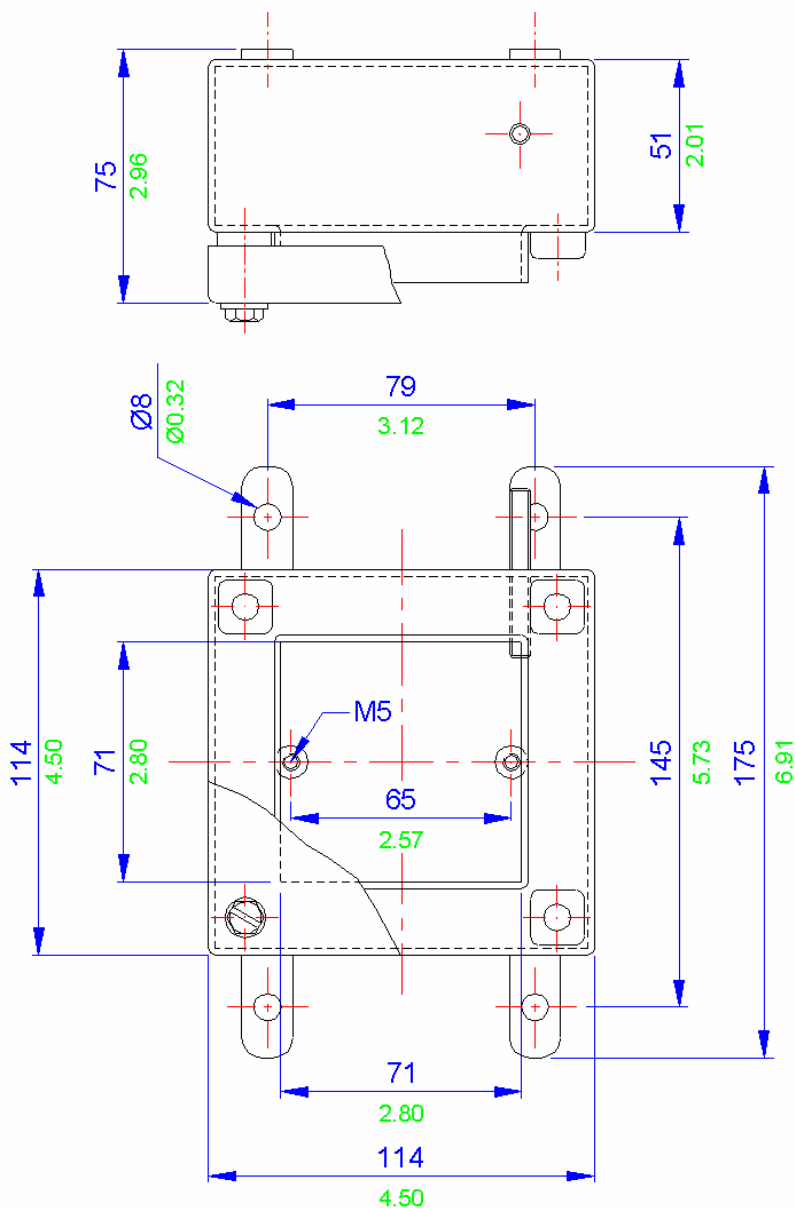
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MSX 45 / SSX 45 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

MSX 45 / SSX 45 Specifications			Terminal Populations			Entry Matrix			
Width	114mm		Maximum Number of Rows		1	Entry Size	Side A-C	Side B-D	
Length	114mm		Weidmuller		Wago		M16	4	4
Depth	51mm		SAK 2.5	7	280-992	8	M20	2	2
Material	Mild steel		SAK 4	7	280-999	0	M25	2	2
	Stainless steel 316 (1.4404)		SAK 6	5	281-691	7	M32	0	0
			SAK 10 *	4	281-992	7	M40	0	0
Weight	1200g		SAK 16 *	3	281-993	0	Drilling Envelope		
IP Rating	66 or 67		SAK 35	0	282-691	0	Side A-C	114 x 51mm	
Temperature	-40° to 80° C (standard neoprene gasket)		SAK 70	0	284-691	0	Side B-D	114 x 51mm	
	-70° to 130° C (silicone gasket)				283-691	0			
	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7				285-691	0			
ATEX EEx nA (Zone 2) BS EN 60079-15				280-998	8				
Certification	ATEX EEx nR (Zone 2) BS EN 60079-15				281-998	0			
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		Phoenix		264-120	7			
	FM - AEx e (Class 1 Zone 1 & Zone2)		UK 2.5 N	9	264-132 (2)	1			
	GOST-R Ex e (Zone 1 & Zone 2)		UK 3 N	9	264-134 (4)	1			
	NEMA 4X (CSA, UL & FM) (class 1 division 2)		UK 5 N	7	262-132 (2)	1			
			UK 10 N *	4	262-134 (4)	1			
Power Rating	8.0W		UK 16 N *	3			* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.		
			UK 35 N	0					

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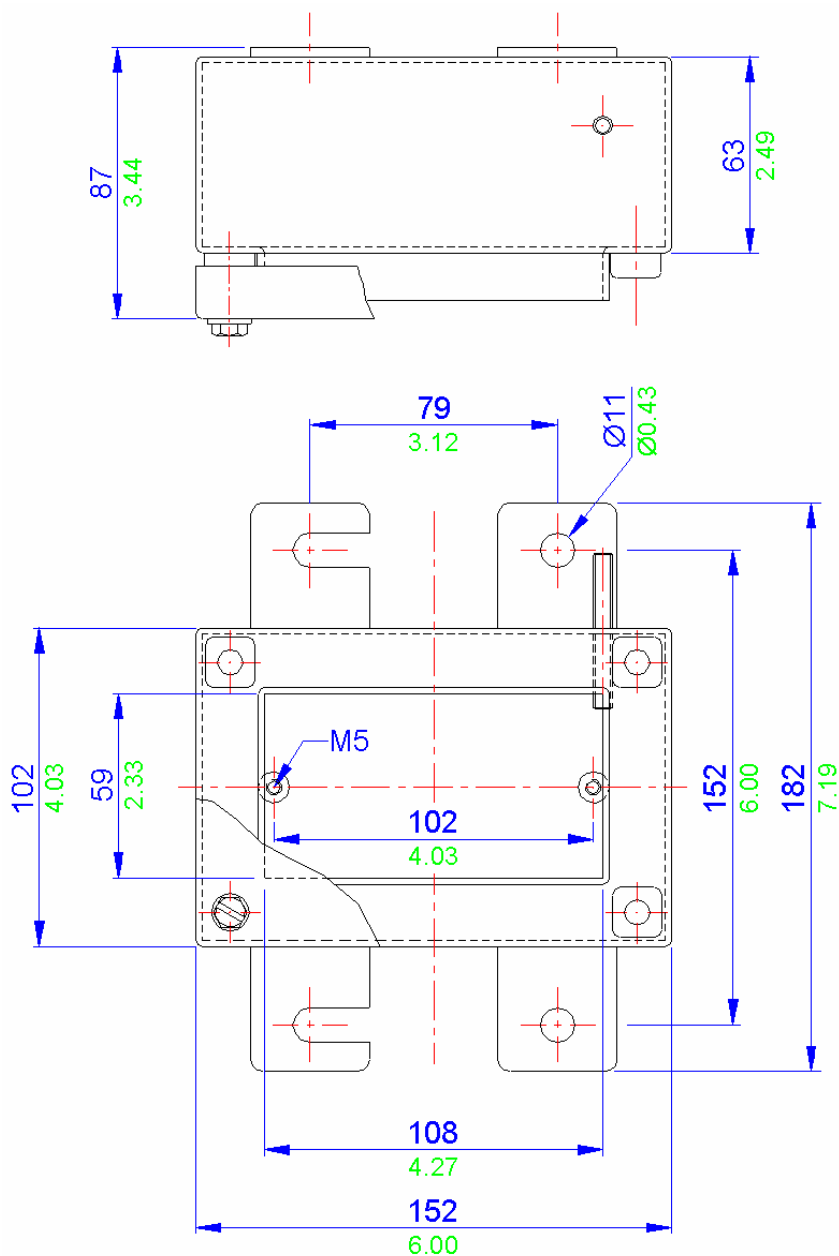
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MSX 64 / SSX 64 Drawing

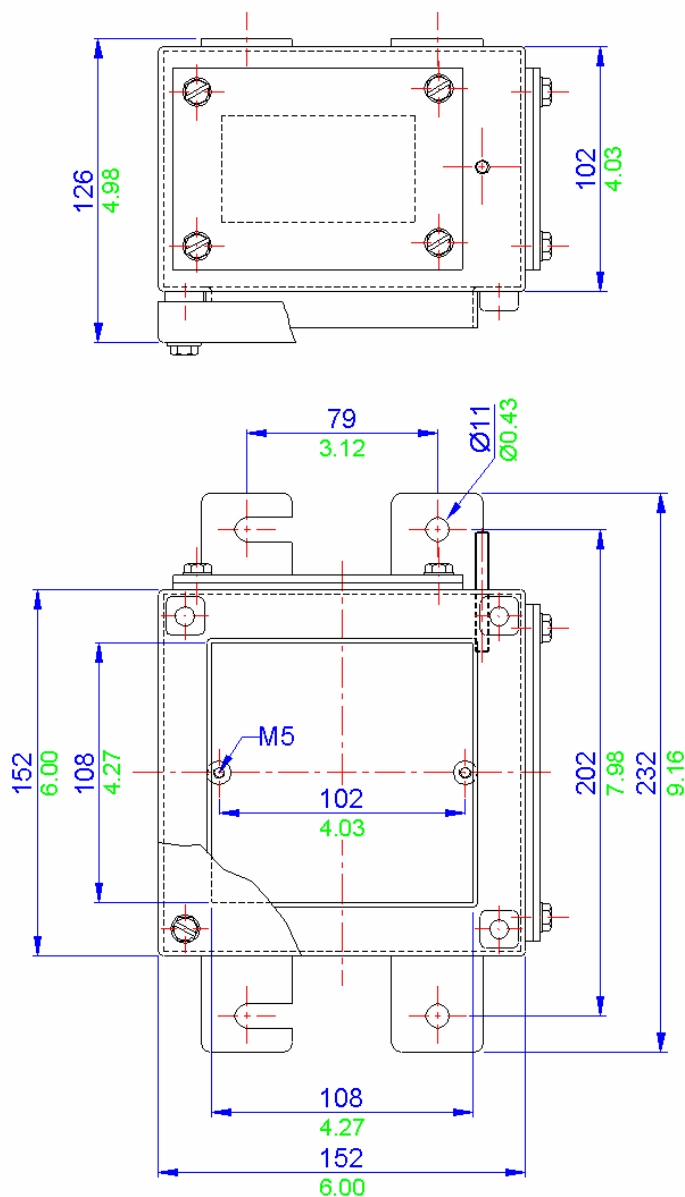


All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 64 / SSX 64 Specifications				Terminal Populations				Entry Matrix		
Width	102mm	Maximum Number of Rows		1		Entry Size	Side A-C	Side B-D		
Length	152mm	Weidmuller		Wago		M16	6	8		
Depth	63mm	SAK 2.5	15	280-992	18	M20	3	4		
Material	Mild steel	SAK 4	15	280-999	0	M25	2	3		
	Stainless steel 316 (1.4404)	SAK 6	11	281-691	15	M32	1	2		
		SAK 10 *	9	281-992	15	M40	0	0		
		SAK 16 *	0	281-993	0	Drilling Envelope				
Weight	1500g	SAK 35	0	282-691	0	Side A-C	102 x 63mm			
IP Rating	66 or 67	SAK 70	0	284-691	0	Side B-D	152 x 63mm			
Temperature	-40° to 80° C (standard neoprene gasket)			283-691	0					
	-70° to 130° C (silicone gasket)			285-691	0					
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7			280-998	18					
	ATEX EEx nA (Zone 2) BS EN 60079-15			281-998	15					
	ATEX EEx nR (Zone 2) BS EN 60079-15			264-120	15					
	CSA - Ex e (Class 1 Zone 1 & Zone 2)	Phoenix	264-220	9						
	FM - AEx e (Class 1 Zone 1 & Zone2)	UK 2.5 N	17	264-132 (2)	3					
		UK 3 N	17	264-134 (4)	2					
Power Rating	GOST-R Ex e (Zone 1 & Zone 2)	UK 5 N	15	262-132 (2)	3					
	NEMA 4X (CSA, UL & FM) (class 1 division 2)	UK 10 N *	9	262-134 (4)	2					
	10.258W	UK 16 N *	7							
			UK 35 N	0						
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.										

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MSX 66 / SSX 66 Drawing

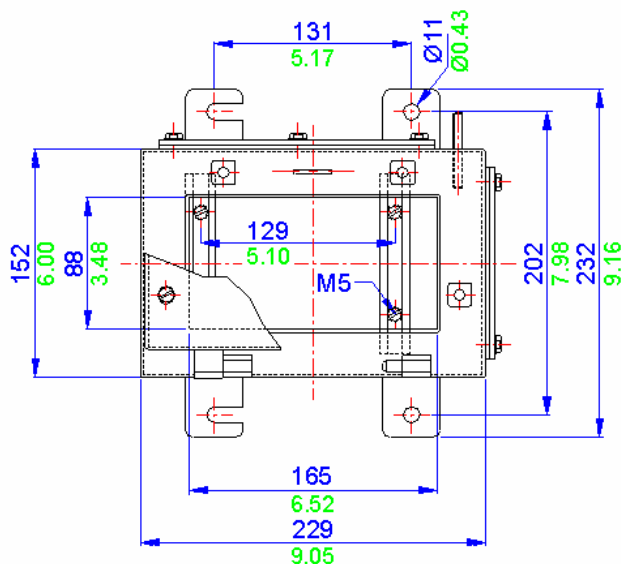


All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 66 / SSX 66 Specifications			Terminal Populations			Entry Matrix		
Width	152mm		Maximum Number of Rows		1	Entry Size	Side A-C	Side B-D
Length	152mm		Weidmuller		Wago		14	14
Depth	102mm		SAK 2.5	15	280-992	18	8	8
Material	Mild steel		SAK 4	15	280-999	18	6	6
	Stainless steel 316 (1.4404)		SAK 6	11	281-691	15	3	3
Weight	2200g		SAK 10 *	9	281-992	15	2	2
IP Rating	66 or 67		SAK 16 *	7	281-993	15	Drilling Envelope	
Temperature	-40° to 80° C (standard neoprene gasket)		SAK 35 *	6	282-691	11	Side A-C	152 x 102mm
	-70° to 130° C (silicone gasket)		SAK 70	0	284-691	10	Side B-D	152 x 102mm
					283-691	7		
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7				285-691	0		
	ATEX EEx nA (Zone 2) BS EN 60079-15				280-998	18		
	ATEX EEx nR (Zone 2) BS EN 60079-15				281-998	15		
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		Phoenix		264-120	16	SX 66 Photo 	
	FM - AEx e (Class 1 Zone 1 & Zone2)		UK 2.5 N	17	264-132 (2)	3		
	GOST-R Ex e (Zone 1 & Zone 2)		UK 3 N	17	264-134 (4)	2		
Power Rating	NEMA 4X (CSA, UL & FM) (class 1 division 2)		UK 5 N	14	262-132 (2)	3	* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.	
	14.287W		UK 10 N *	9	262-134 (4)	2		
			UK 16 N *	7				
			UK 35 N *	6				

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MSX 0 / SSX 0 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 0 / SSX 0 Specifications				Terminal Populations				Entry Matrix		
Width	152mm			Maximum Number of Rows		1		Entry Size	Side A-C	Side B-D
Length	229mm			Weidmuller		Wago		M16	5	9
Depth	140mm or 200mm			SAK 2.5	21	280-992	24	M20	3	6
Material	Mild steel			SAK 4	19	280-999	24	M25	2	3
	Stainless steel 316 (1.4404)			SAK 6	16	281-691	20	M32	1	2
	140mm deep 2200g			SAK 10 *	12	281-992	20	M40	1	2
	200mm deep 4000g			SAK 16 *	10	281-993	20	Drilling Envelope		
IP Rating	66 or 67			SAK 35 *	7	282-691 *	15	Side A-C	87 x 75mm (4 x gp 140)	
Temperature	-40° to 80° C (standard neoprene gasket)			SAK 70 *	5	284-691 *	12	Side B-D	144 x 75mm (4 x gp 140)	
	-70° to 130° C (silicone gasket)					283-691	0			
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7					285-691	0			
	ATEX EEx nA (Zone 2) BS EN 60079-15					280-998	24			
	ATEX EEx nR (Zone 2) BS EN 60079-15					281-998	20			
	CSA - Ex e (Class 1 Zone 1 & Zone 2)					264-120	21			
	FM - AEx e (Class 1 Zone 1 & Zone2)					264-220	12			
	GOST-R Ex e (Zone 1 & Zone 2)					264-132 (2)	4			
Power Rating	NEMA 4X (CSA, UL & FM) (class 1 division 2)			UK 2.5 N	25	264-134 (4)	3	* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.		
	19.874W			UK 5 N	21	262-132 (2)	4			
				UK 10 N *	12	262-134 (4)	3			
				UK 16 N *	10					
			UK 35 N *	8						

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Technical drawing of a rectangular metal enclosure, showing three views: front, top, and side. Dimensions are provided in millimeters (mm) and inches (in).

Front View Dimensions:

- Overall width: 274 mm (10.82 in)
- Overall height: 234 mm (9.24 in)
- Internal width: 210 mm (8.29 in)
- Internal height: 174 mm (6.87 in)
- Top flange width: 124 mm (4.90 in)
- Top flange height: 18 mm (0.71 in)
- Bottom flange width: 124 mm (4.90 in)
- Bottom flange height: 18 mm (0.71 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)

Top View Dimensions:

- Overall width: 274 mm (10.82 in)
- Overall height: 234 mm (9.24 in)
- Internal width: 210 mm (8.29 in)
- Internal height: 174 mm (6.87 in)
- Top flange width: 124 mm (4.90 in)
- Top flange height: 18 mm (0.71 in)
- Bottom flange width: 124 mm (4.90 in)
- Bottom flange height: 18 mm (0.71 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)

Side View Dimensions:

- Overall width: 274 mm (10.82 in)
- Overall height: 234 mm (9.24 in)
- Internal width: 210 mm (8.29 in)
- Internal height: 174 mm (6.87 in)
- Top flange width: 124 mm (4.90 in)
- Top flange height: 18 mm (0.71 in)
- Bottom flange width: 124 mm (4.90 in)
- Bottom flange height: 18 mm (0.71 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)
- Mounting hole diameter: $\varnothing 11$ mm (0.43 in)
- Mounting hole pitch: 124 mm (4.90 in)
- Mounting hole offset: 124 mm (4.90 in)

All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 0.5 / SSX 0.5 Specifications			
Width	184mm		
Length	274mm		
Depth	140mm or 200mm		
Material	Mild steel		
	Stainless steel 316 (1.4404)		
Weight	140mm deep	200mm deep	
	5000g	6000g	
IP Rating	66 or 67		
Temperature	-40° to 80° C (standard neoprene gasket)		
	-70° to 130° C (silicone gasket)		
Certification	ATEX EEx e (Zone 1 & Zone 2)		
	BS EN 60079-7		
	ATEX EEx nA (Zone 2)		
	BS EN 60079-15		
	ATEX EEx nR (Zone 2)		
	BS EN 60079-15		
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		
	FM - AEx e (Class 1 Zone 1 & Zone2)		
	GOST-R Ex e (Zone 1 & Zone 2)		
	NEMA 4X (CSA, UL & FM) (class 1 division 2)		
Power Rating	19.874W		

Terminal Populations			
Maximum Number of Rows	2		
Weidmuller	Wago		
SAK 2.5	56	280-992	31
SAK 4	52	280-999	31
SAK 6	42	281-691	27
SAK 10 *	34	281-992	27
SAK 16 *	14	281-993	27
SAK 35 *	10	282-691 *	21
SAK 70 *	7	284-691 *	16
		283-691	28
		285-691	0
		280-998	31
		281-998	27
		264-120	56
Phoenix			
		264-220	32
UK 2.5 N	68	264-132 (2)	12
UK 3 N	68	264-134 (4)	8
UK 5 N	56	262-132 (2)	12
UK 10 N *	34	262-134 (4)	8
UK 16 N *	14		
UK 35 N *	11		
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.			

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	7	12
M20	4	8
M25	2	4
M32	2	3
M40	1	2
Drilling Envelope		
Side A-C	119 x 75mm (4 x gp 140)	
Side B-D	189 x 75mm (4 x gp 140)	



SX 0.5 Photo



Technical

Specials

ZP Range

Fire Rated

High Voltage

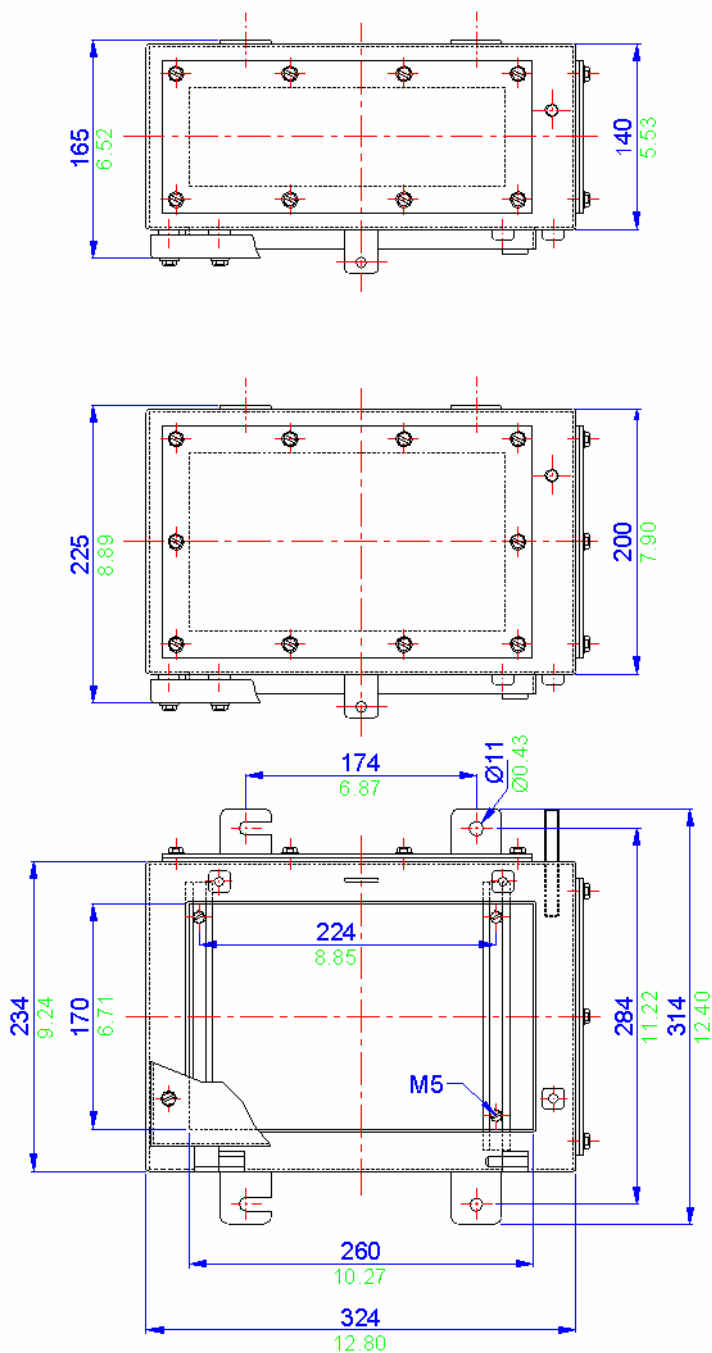
ZAG Range

BPGA Range

BPG Range

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MSX 1 / SSX 1 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

MSX 1 / SSX 1 Specifications				Terminal Populations				Entry Matrix			
Width	234mm			Maximum Number of Rows		2		Entry Size	Side A-C	Side B-D	
Length	324mm			Weidmuller		Wago		M16	10	14	
Depth	140mm or 200mm			SAK 2.5		72	280-992	M20	7	10	
Material	Mild steel			SAK 4		66	280-999	M25	4	6	
	Stainless steel 316 (1.4404)			SAK 6		54	281-691	M32	2	4	
	140mm deep 6300g		200mm deep 7200g	SAK 10 *		44	281-992	M40	2	3	
Weight	66 or 67			SAK 16 *		18	281-993	Drilling Envelope Side A-C 169 x 75mm (4 x gp 140) Side B-D 239 x 75mm (4 x gp 140)			
IP Rating				SAK 35 *		14	282-691				
Temperature	-40° to 80° C (standard neoprene gasket)			SAK 70 *		10	284-691 *				
	-70° to 130° C (silicone gasket)						283-691 *				
	Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7								285-691 *	
ATEX EEx nA (Zone 2) BS EN 60079-15						280-998					
ATEX EEx nR (Zone 2) BS EN 60079-15						281-998					
CSA - Ex e (Class 1 Zone 1 & Zone 2)						264-120					
FM - AEx e (Class 1 Zone 1 & Zone2)			Phoenix			264-220					
	GOST-R Ex e (Zone 1 & Zone 2)			UK 2.5 N		86	264-132 (2)	SX 1 Photo 			
	NEMA 4X (CSA, UL & FM) (class 1 division 2)			UK 3 N		86	264-134 (4)				
				UK 5 N		72	262-132 (2)				
				UK 10 N *		44	262-134 (4)				
Power Rating	29.206W			UK 16 N *		18					
				UK 35 N *		14		* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.			

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

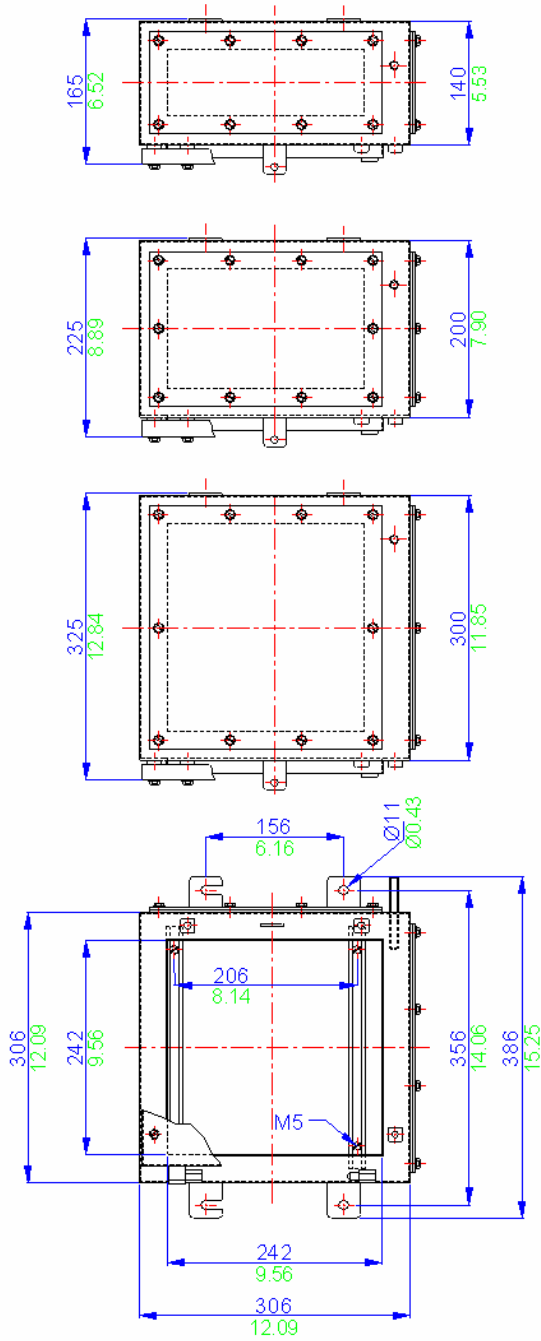
Specials

8

Technical

9

MSX 1.5 / SSX 1.5 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

Entry Matrix			
Entry Size	Side A-C	Side B-D	
M16	14	12	
M20	10	10	
M25	6	5	
M32	4	3	
M40	3	3	

Drilling Envelope			
Side A-C	241 x 75mm (4 x gp 140)		
Side B-D	221x 75mm (4 x gp 140)		



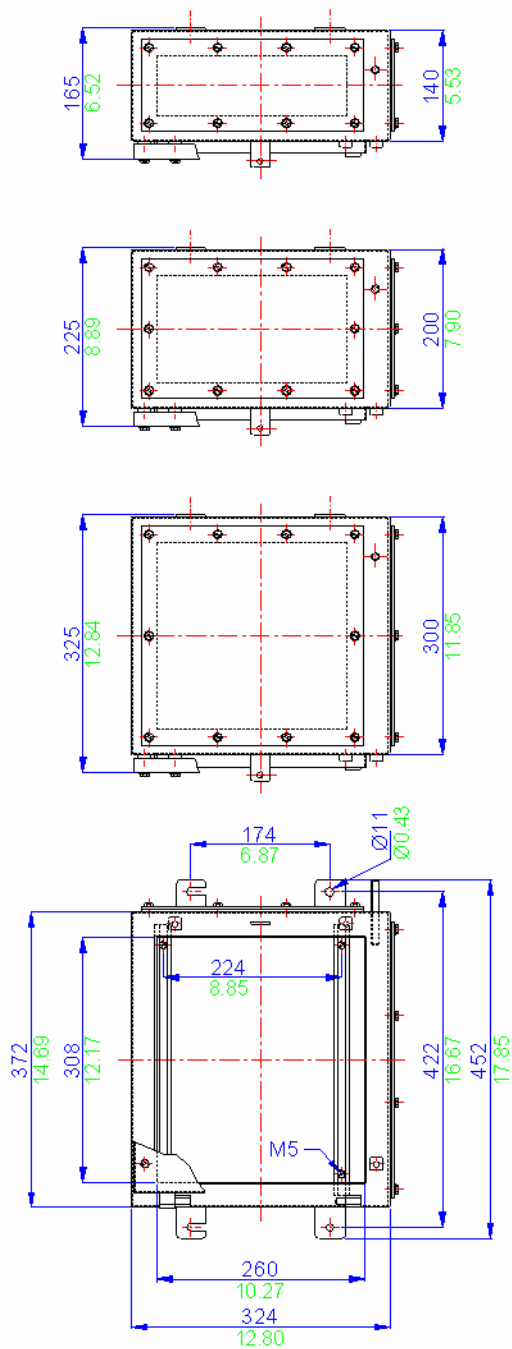
SX 1.5 Photo



Terminal Populations			
Maximum Number of Rows		3	
Weidmuller		Wago	
SAK 2.5	99	280-992	74
SAK 4	93	280-999	74
SAK 6	75	281-691	64
SAK 10 *	60	281-992	64
SAK 16 *	34	281-993	64
SAK 35 *	24	282-691	48
SAK 70 *	20	284-691 *	38
		283-691 *	32
		285-691 *	11
		280-998	74
		281-998	64
		264-120	99
Phoenix		264-220	60
UK 2.5 N	120	264-132 (2)	21
UK 3 N	120	264-134 (4)	15
UK 5 N	99	262-132 (2)	21
UK 10 N *	60	262-134 (4)	15
UK 16 N *	34		
UK 35 N *	26		
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.			

MSX 1.5 / SSX 1.5 Specifications			
Width	306mm		
Length	306mm		
Depth	140mm or 200mm		
Material	Mild steel		
	Stainless steel 316 (1.4404)		
Weight	140mm deep	200mm deep	
	7300g	8800g	
IP Rating	66 or 67		
Temperature	-40° to 80° C (standard neoprene gasket)		
	-70° to 130° C (silicone gasket)		
Certification	ATEX EEx e (Zone 1 & Zone 2)		
	BS EN 60079-7		
	ATEX EEx nA (Zone 2)		
	BS EN 60079-15		
	ATEX EEx nR (Zone 2)		
Power Rating	BS EN 60079-15		
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		
	FM - AEx e (Class 1 Zone 1 & Zone2)		
	GOST-R Ex e (Zone 1 & Zone 2)		
	NEMA 4X (CSA, UL & FM)		
	(class 1 division 2)		
	32.284W		

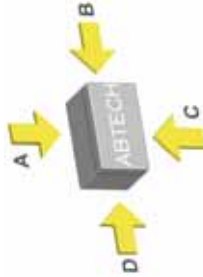
MSX 2 / SSX 2 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Entry Matrix			
Entry Size	Side A-C	Side B-D	
M16	18	14	
M20	14	10	
M25	7	6	
M32	5	4	
M40	4	3	

Drilling Envelope	
Side A-C	307 x 75mm (4 x gp 140)
Side B-D	239x 75mm (4 x gp 140)



SX 2 Photo

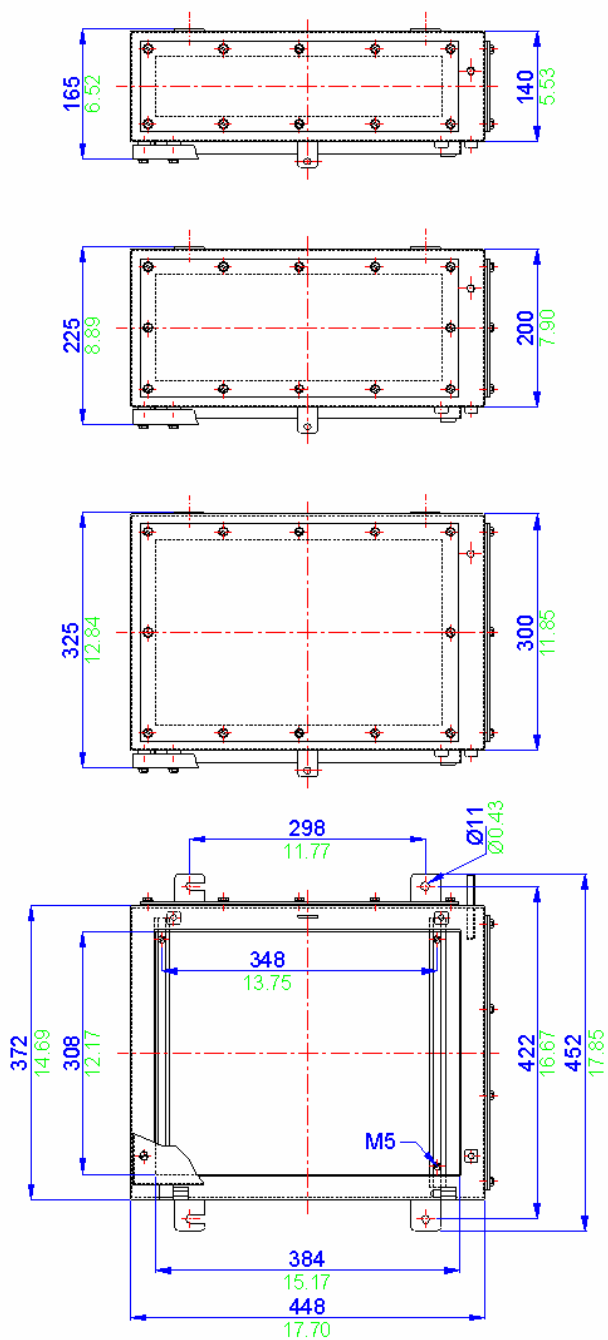


Terminal Populations			
Maximum Number of Rows	3		
Weidmuller	Wago		
	SAK 2.5	SAK 4	SAK 6
	132	123	99
	280-992	280-999	281-691
	150	150	126
	SAK 10	78	281-992
	SAK 16	66	281-993
	SAK 35	42	282-691
	SAK 70	24	284-691 *
			283-691 *
			285-691 *
			280-998
			281-998
			264-120
Phoenix			
	UK 2.5 N	156	264-132 (2)
	UK 3 N	156	264-134 (4)
	UK 5 N	132	262-132 (2)
	UK 10 N	78	262-134 (4)
	UK 16 N	66	
	UK 35 N	54	

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

MSX 2 / SSX 2 Specifications			
Width	372mm		
Length	324mm		
Depth	140mm or 200mm		
Material	Mild steel		
	Stainless steel 316 (1.4404)		
Weight	140mm deep	200mm deep	
	9.5kg	11.3kg	
IP Rating	66 or 67		
Temperature	-40° to 80° C		
	(standard neoprene gasket)		
Certification	-70° to 130° C		
	(silicone gasket)		
	ATEX EEx e (Zone 1 & Zone 2)		
	BS EN 60079-7		
Power Rating	ATEX EEx nA (Zone 2)		
	BS EN 60079-15		
	ATEX EEx nR (Zone 2)		
	BS EN 60079-15		
Power Rating	CSA - Ex e (Class 1 Zone 1 & Zone 2)		
	FM - AEx e (Class 1 Zone 1 & Zone2)		
	GOST-R Ex e (Zone 1 & Zone 2)		
	NEMA 4X (CSA, UL & FM)		
Power Rating	(class 1 division 2)		
	36.500W		

MSX 3 / SSX 3 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

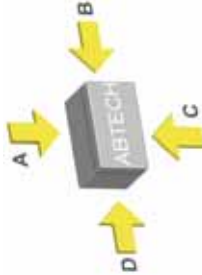
Stainless Steel and Mild Steel Enclosures

MSX 3 / SSX 3 Specifications				Terminal Populations				Entry Matrix		
Width	372mm			Maximum Number of Rows		3		Entry Size	Side A-C	Side B-D
Length	448mm			Weidmuller		Wago		M16	18	20
Depth	140mm or 200mm			SAK 2.5	168	280-992		M20	14	16
Material	Mild steel			SAK 4	156	280-999		M25	7	9
	Stainless steel 316 (1.4404)			SAK 6	126	281-691		M32	5	6
	140mm deep	200mm deep		SAK 10 *	102	281-992		M40	4	5
11.3Kg	13.3Kg	SAK 16 *		84	281-993		Drilling Envelope			
IP Rating	66 or 67	SAK 35 *		63	282-691		Side A-C	307 x 75mm (4 x gp 140)	Side B-D	363 x 75mm (4 x gp 140)
	-40° to 80° C (standard neoprene gasket)	SAK 70 *		45	284-691 *					
Temperature	-70° to 130° C (silicone gasket)					283-691 *				
	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7					285-691 *				
Certification	ATEX EEx nA (Zone 2) BS EN 60079-15					280-998				
	ATEX EEx nR (Zone 2) BS EN 60079-15					281-998				
	CSA - Ex e (Class 1 Zone 1 & Zone 2)			Phoenix		264-120		SX 3 Photo		
	FM - AEx e (Class 1 Zone 1 & Zone2)			UK 2.5 N	201	264-132 (2)				
	GOST-R Ex e (Zone 1 & Zone 2)			UK 3 N	201	264-134 (4)				
	NEMA 4X (CSA, UL & FM) (class 1 division 2)			UK 5 N	168	262-132 (2)				
	42.289W			UK 10 N *	102	262-134 (4)				
Power Rating				UK 16 N *	84					
				UK 35 N *	69					
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.										

Drilling Envelope

Side A-C 307 x 75mm (4 x gp 140)

Side B-D 363 x 75mm (4 x gp 140)



SX 3 Photo



Technical

9

Specials

8

ZP Range

7

Fire Rated

6

High Voltage

5

ZAG Range

4

BPGA Range

3

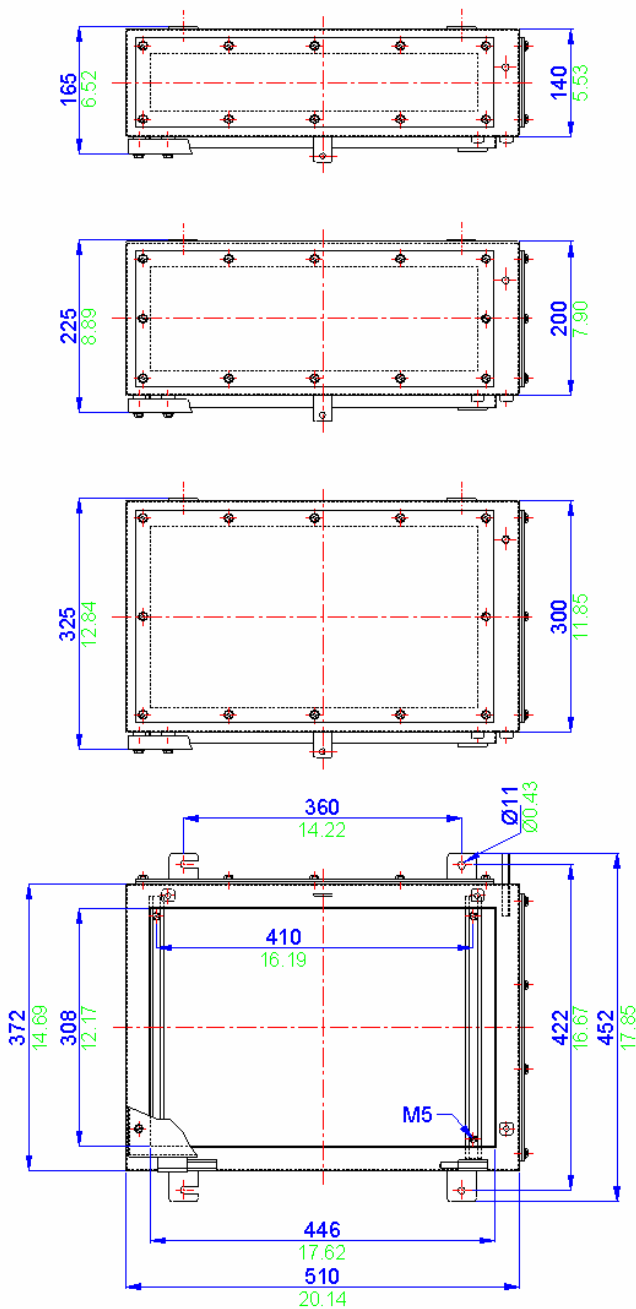
BPG Range

2

SX Range

1

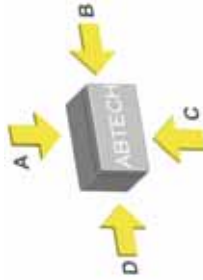
MSX 4 / SSX 4 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

Entry Matrix		
Entry Size	Side A-C	Side B-D
M16	18	24
M20	14	20
M25	7	10
M32	5	7
M40	4	6
Drilling Envelope		
Side A-C	307 x 75mm (4 x gp 140)	
Side B-D	425 x 75mm (4 x gp 140)	



SX 4 Photo

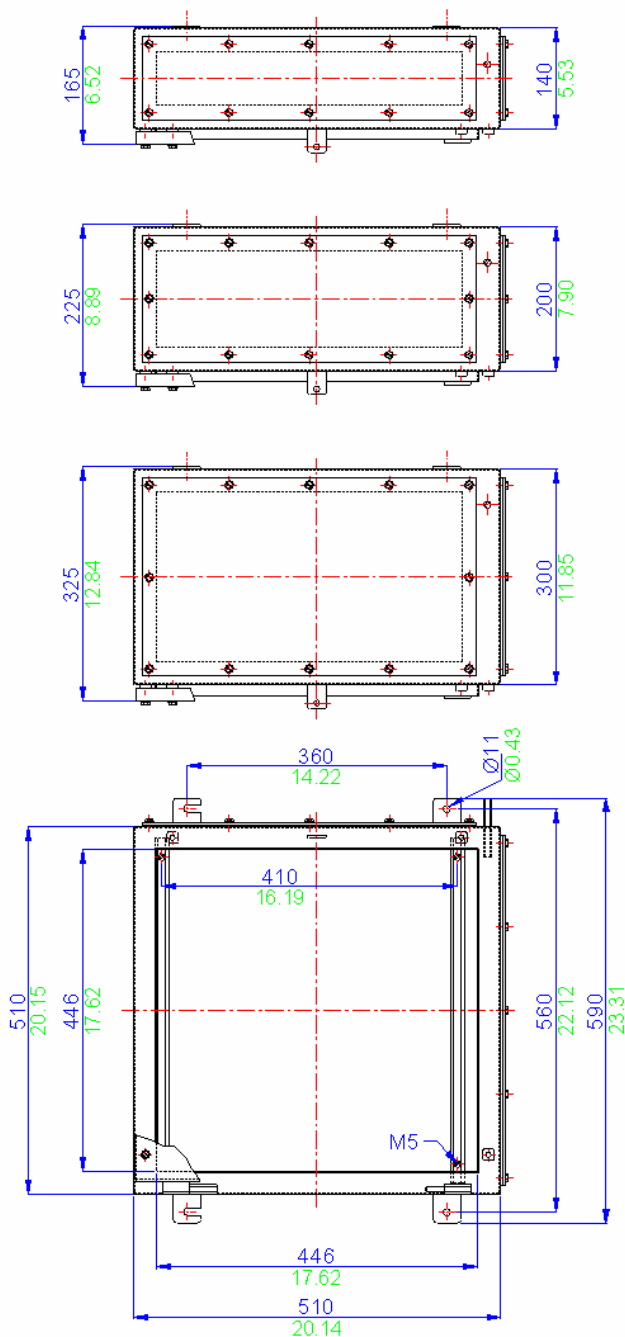


Terminal Populations			
Maximum Number of Rows	3		
Weidmuller	Wago		
SAK 2.5	198	280-992	222
SAK 4	183	280-999	222
SAK 6	150	281-691	189
SAK 10	120	281-992	189
SAK 16	99	281-993	126
SAK 35	75	282-691	147
SAK 70	54	284-691	117
		283-691	66
		285-691	44
		280-998	222
		281-998	189
		264-120	198
Phoenix	264-220		
UK 2.5 N	237	264-132 (2)	42
UK 3 N	237	264-134 (4)	30
UK 5 N	198	262-132 (2)	42
UK 10 N	102	262-134 (4)	30
UK 16 N	99		
UK 35 N	81		

* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.

MSX 4 / SSX 4 Specifications			
Width	372mm		
Length	510mm		
Depth	140mm or 200mm		
Material	Mild steel		
	Stainless steel 316 (1.4404)		
Weight	140mm deep	200mm deep	
	12.7Kg	14.8Kg	
IP Rating	66 or 67		
Temperature	-40° to 80° C (standard neoprene gasket)		
	-70° to 130° C (silicone gasket)		
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7		
	ATEX EEx nA (Zone 2) BS EN 60079-15		
	ATEX EEx nR (Zone 2) BS EN 60079-15		
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		
	FM - AEx e (Class 1 Zone 1 & Zone 2)		
	GOST-R Ex e (Zone 1 & Zone 2)		
Power Rating	NEMA 4X (CSA, UL & FM) (class 1 division 2)		
	44.726W		

MSX 5 / SSX 5 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

Entry Matrix			
Entry Size	Side A-C	Side B-D	
M16	26	24	
M20	20	20	
M25	10	10	
M32	7	7	
M40	6	6	

Drilling Envelope

Side A-C	445 x 75mm (4 x gp 140)
Side B-D	425 x 75mm (4 x gp 140)



SX 5 Photo



Terminal Populations			
Maximum Number of Rows	Wago		
4			
Weidmuller			
SAK 2.5	264	280-992	296
SAK 4	244	280-999	296
SAK 6	200	281-691	252
SAK 10	160	281-992	252
SAK 16	132	281-993	189
SAK 35	100	282-691	196
SAK 70	72	284-691	156
		283-691	99
		285-691	66
		280-998	296
		281-998	252
		264-120	264
Phoenix			
		264-220	156
UK 2.5 N	316	264-132 (2)	56
UK 3 N	316	264-134 (4)	40
UK 5 N	264	262-132 (2)	56
UK 10 N	160	262-134 (4)	40
UK 16 N	132		
UK 35 N	108		
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.			

MSX 5 / SSX 5 Specifications			
Width	510mm		
Length	510mm		
Depth	140mm or 200mm		
Material	Mild steel		
	Stainless steel 316 (1.4404)		
Weight	140mm deep	200mm deep	
	17.0Kg	20.0Kg	
IP Rating	66 or 67		
Temperature	-40° to 80° C		
	(standard neoprene gasket)		
	-70° to 130° C		
	(silicone gasket)		
Certification	ATEX EEx e (Zone 1 & Zone 2)		
	BS EN 60079-7		
	ATEX EEx nA (Zone 2)		
	BS EN 60079-15		
	ATEX EEx nR (Zone 2)		
	BS EN 60079-15		
	CSA - Ex e (Class 1 Zone 1 & Zone 2)		
	FM - AEx e (Class 1 Zone 1 & Zone2)		
	GOST-R Ex e (Zone 1 & Zone 2)		
	NEMA 4X (CSA, UL & FM)		
Power Rating	(class 1 division 2)		
	50.328W		

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

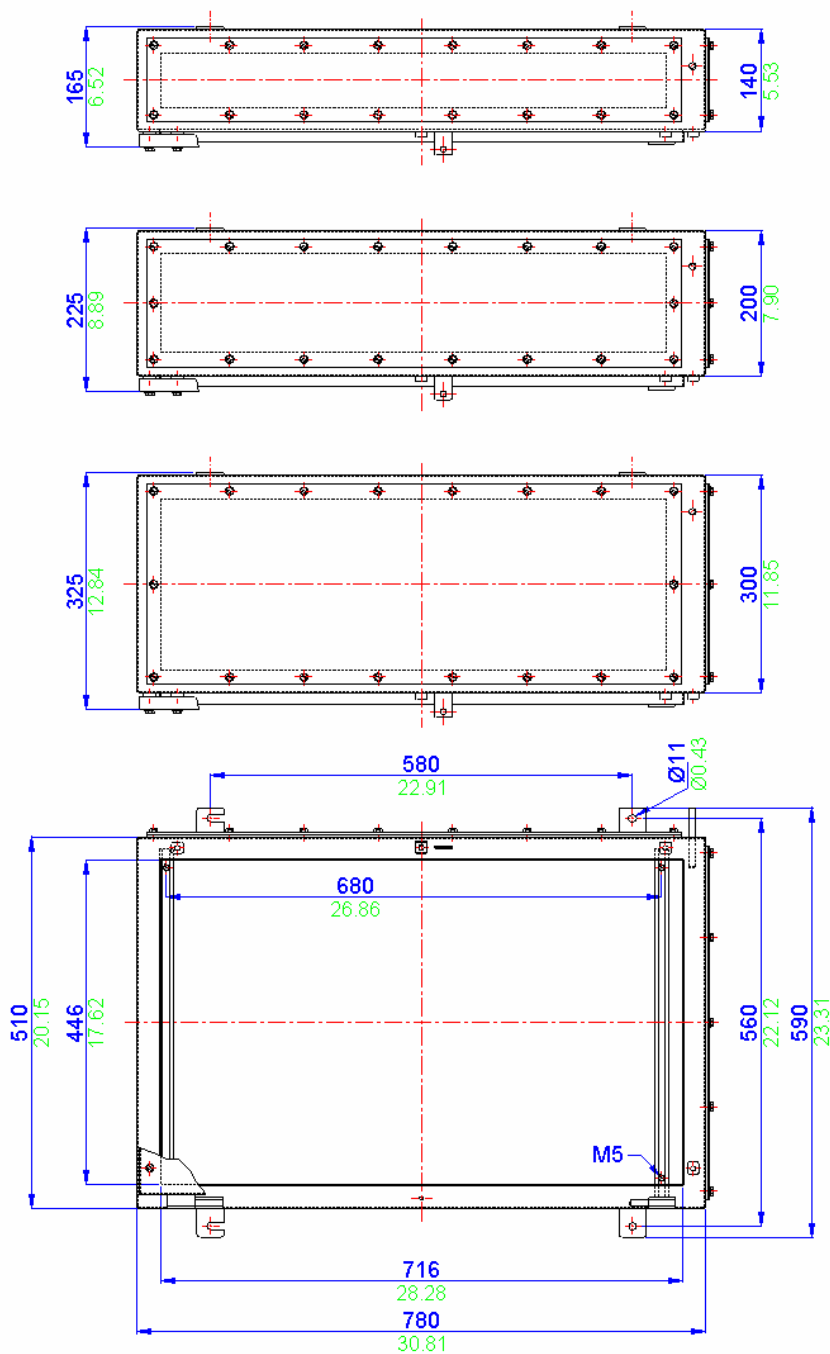
Specials

8

Technical

9

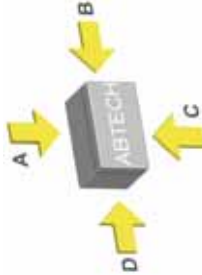
MSX 6 / SSX 6 Drawing



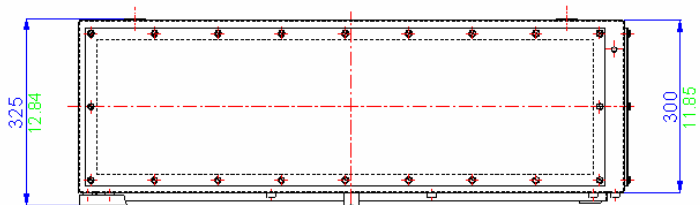
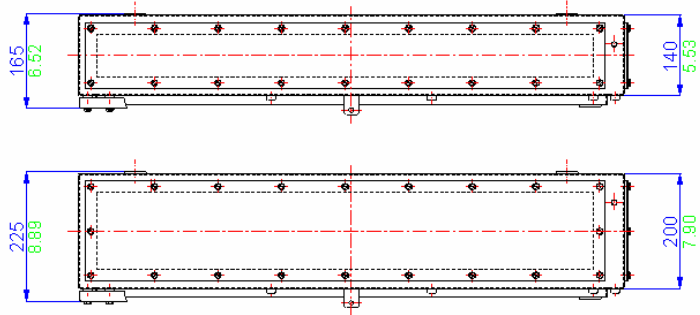
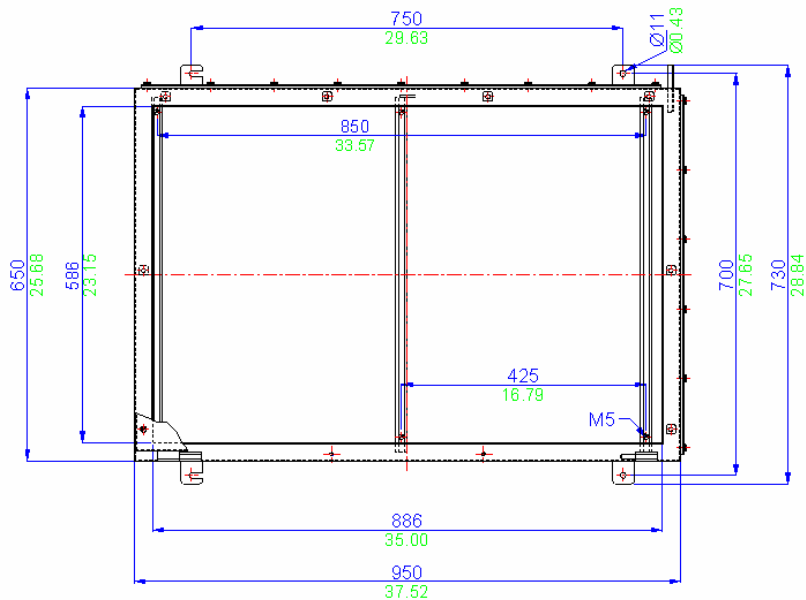
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

Stainless Steel and Mild Steel Enclosures

MSX 6 / SSX 6 Specifications				Terminal Populations			Entry Matrix		
Width	510mm			Maximum Number of Rows		4	Entry Size	Side A-C	Side B-D
Length	780mm			Weidmuller		Wago	M16	26	40
Depth	140mm or 200mm or 300mm			SAK 2.5	440	280-992	M20	20	34
Material	Mild steel			SAK 4	404	280-999	M25	11	18
	Stainless steel 316 (1.4404)			SAK 6	332	281-691	M32	7	11
	140mm 24.0kg	200mm 27.0kg	300mm 32.0kg	SAK 10	264	281-992	M40	6	9
IP Rating	66 or 67			SAK 16	220	281-993	Drilling Envelope		
Temperature	-40° to 80° C (standard neoprene gasket)			SAK 35	168	282-691	Side A-C	445 x 75mm (4 x gp 140)	
	-70° to 130° C (silicone gasket)			SAK 70	120	284-691	Side B-D	695 x 75mm (4 x gp 140)	
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7					283-691			
	ATEX EEx nA (Zone 2) BS EN 60079-15					285-691			
	ATEX EEx nR (Zone 2) BS EN 60079-15					280-998			
	CSA - Ex e (Class 1 Zone 1 & Zone 2)					281-998			
	FM - AEx e (Class 1 Zone 1 & Zone2)					264-120			
Power Rating	GOST-R Ex e (Zone 1 & Zone 2)			Phoenix		264-220			
	NEMA 4X (CSA, UL & FM) (class 1 division 2)			UK 2.5 N	524	264-132 (2)			
	57.383W			UK 3 N	524	264-134 (4)			
				UK 5 N	440	262-132 (2)			
				UK 10 N	264	262-134 (4)			

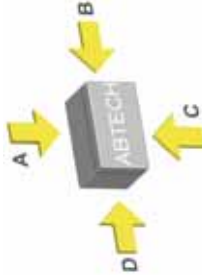
SX Range
1BPG Range
2BPGA Range
3ZAG Range
4High Voltage
5Fire Rated
6ZP Range
7Specials
8Technical
9

MSX 7 / SSX 7 Drawing

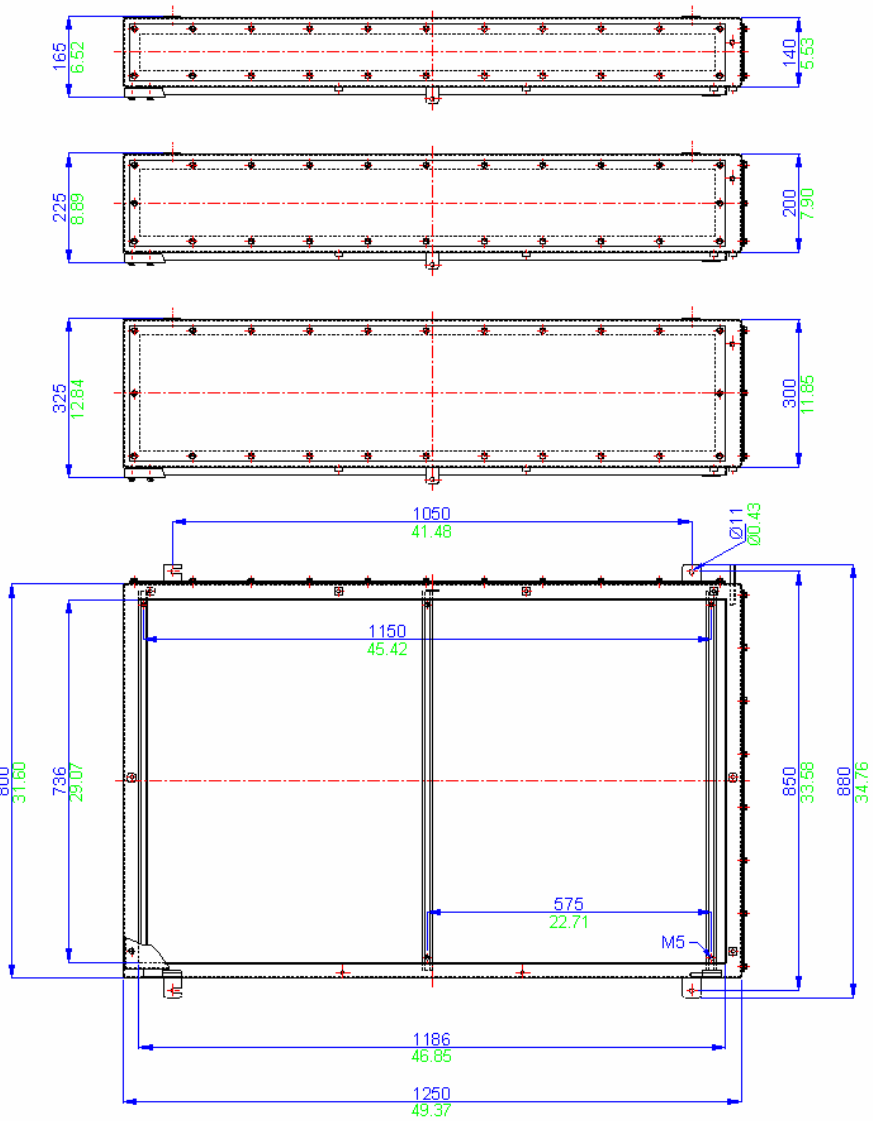


All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 7 / SSX 7 Specifications				Terminal Populations			Entry Matrix		
Width	650mm			Maximum Number of Rows		5	Entry Size	Side A-C	Side B-D
Length	950mm			Weidmuller		Wago	M16	34	81
Depth	140mm or 200mm or 300mm			SAK 2.5	685	280-992	M20	28	60
Material	Mild steel			SAK 4	635	280-999	M25	13	39
	Stainless steel 316 (1.4404)			SAK 6	520	281-691	M32	10	28
	140mm 35.0kg	200mm 39.0kg	300mm 52.0kg	SAK 10	415	281-992	M40	8	16
IP Rating	66 or 67			SAK 16	345	281-993	Drilling Envelope		
Temperature	-40° to 80° C (standard neoprene gasket)			SAK 35	260	282-691	Side A-C	585 x 75mm (4 x gp 140)	
	-70° to 130° C (silicone gasket)			SAK 70	150	284-691	Side B-D	865 x 75mm (4 x gp 140)	
Certification	ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7					283-691			
	ATEX EEx nA (Zone 2) BS EN 60079-15					285-691	SX 7 Photo 		
	ATEX EEx nR (Zone 2) BS EN 60079-15					280-998			
	CSA - Ex e (Class 1 Zone 1 & Zone 2)					281-998			
	Power Rating	FM - AEx e (Class 1 Zone 1 & Zone2)					264-120		
GOST-R Ex e (Zone 1 & Zone 2)			Phoenix		264-220				
NEMA 4X (CSA, UL & FM) (class 1 division 2)			UK 2.5 N	820	264-132 (2)				
68.000W			UK 3 N	820	264-134 (4)				
				UK 5 N	685	262-132 (2)			
				UK 10 N	415	262-134 (4)			
				UK 16 N	345				
				UK 35 N	280				
* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.									

SX Range
1BPG Range
2BPGA Range
3ZAG Range
4High Voltage
5Fire Rated
6ZP Range
7Specials
8Technical
9

MSX 8 / SSX 8 Drawing



All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

MSX 8 / SSX 8 Specifications				Terminal Populations			Entry Matrix	
Width	800mm			Maximum Number of Rows	5		Entry Size	Side A-C
Length	1250mm			Weidmuller		Wago		Side B-D
Depth	140mm or 200mm or 300mm			SAK 2.5	1295	280-992	M16	42
Material	Mild steel			SAK 4	635	280-999	M20	36
				SAK 6	520	281-691	M25	18
				SAK 10	415	281-992	M32	12
				SAK 16	345	281-993	M40	10
Weight	140mm 40.0Kg	200mm 52.0Kg	300mm 59.0Kg	SAK 35	260	282-691	Drilling Envelope	
IP Rating	66 or 67			SAK 70	150	284-691	Side A-C	735 x 75mm
Temperature			-40° to 80° C (standard neoprene gasket)			283-691	Side B-D	1165 x 75mm
			-70° to 130° C (silicone gasket)			285-691		
			ATEX EEx e (Zone 1 & Zone 2) BS EN 60079-7			280-998		
Certification			ATEX EEx nA (Zone 2) BS EN 60079-15			281-998		
			ATEX EEx nR (Zone 2) BS EN 60079-15			264-120		
			CSA - Ex e (Class 1 Zone 1 & Zone 2)	UK 2.5 N	820	264-132 (2)		
			FM - AEx e (Class 1 Zone 1 & Zone 2)	UK 3 N	820	264-134 (4)		
			GOST-R Ex e (Zone 1 & Zone 2)	UK 5 N	685	262-132 (2)		
			NEMA 4X (CSA, UL & FM) (class 1 division 2)	UK 10 N	415	262-134 (4)		
Power Rating			119 462W	UK 16 N	345		* Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius.	
				UK 35 N	280			



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