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FURSE EARTHING  
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# SX

## Stainless Steel and Mild Steel Enclosures

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

## Stainless Steel and Mild Steel Enclosures

1

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.

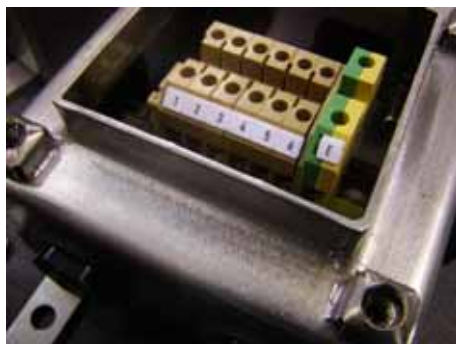
The SX range was specifically designed to meet the rigours of the North Sea environment and is capable of achieving IP66 and IP67. It has also undergone and passed the Shell/ERA deluge test which was devised to adequately test enclosures and electrical equipment which is routinely subjected to ships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

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

## Stainless Steel and Mild Steel Enclosures

## 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<br>(on any or all four sides) | EP – Electro-polished external<br>surfaces (SX range only) | LB - Label Bracket Welded to<br>Door | ES - Earth Stud fitted to Door<br>and Gland Plates | EB - Internal Earthing Bar | SIL - Silicone Gasket<br>(see note 3) | BD - Breather Drain<br>(see note 4) | TP - Tamper Proof Lid Fixing<br>Screws | MP - Component Mounting<br>Plate (Steel/Stainless Steel) | RF – RFI Protection<br>(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.

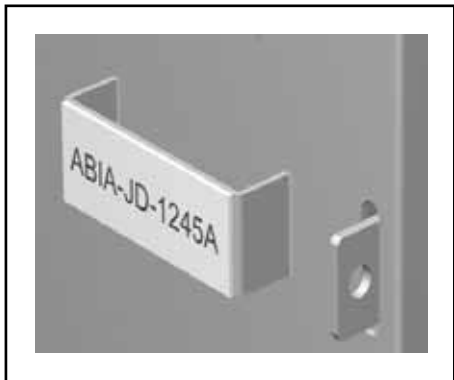
## Stainless Steel and Mild Steel Enclosures



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



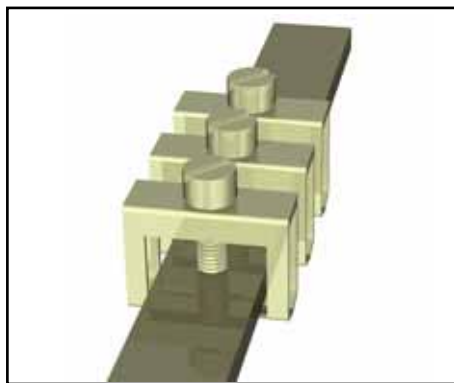
Earth Stud fitted to door and gland plates



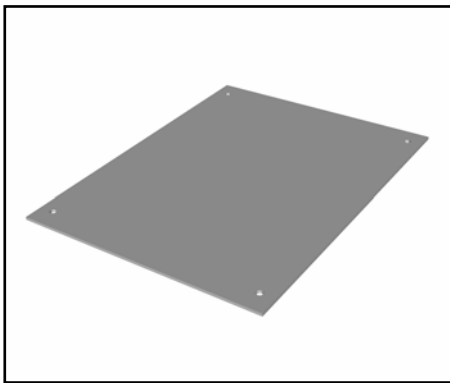
Label Bracket  
(welded to door)



Electro-polished  
(external surfaces on SX range only)



Internal Earthing bar  
(can be fitted with clamps)



Component Mounting Plate  
(steel or stainless steel 316)

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

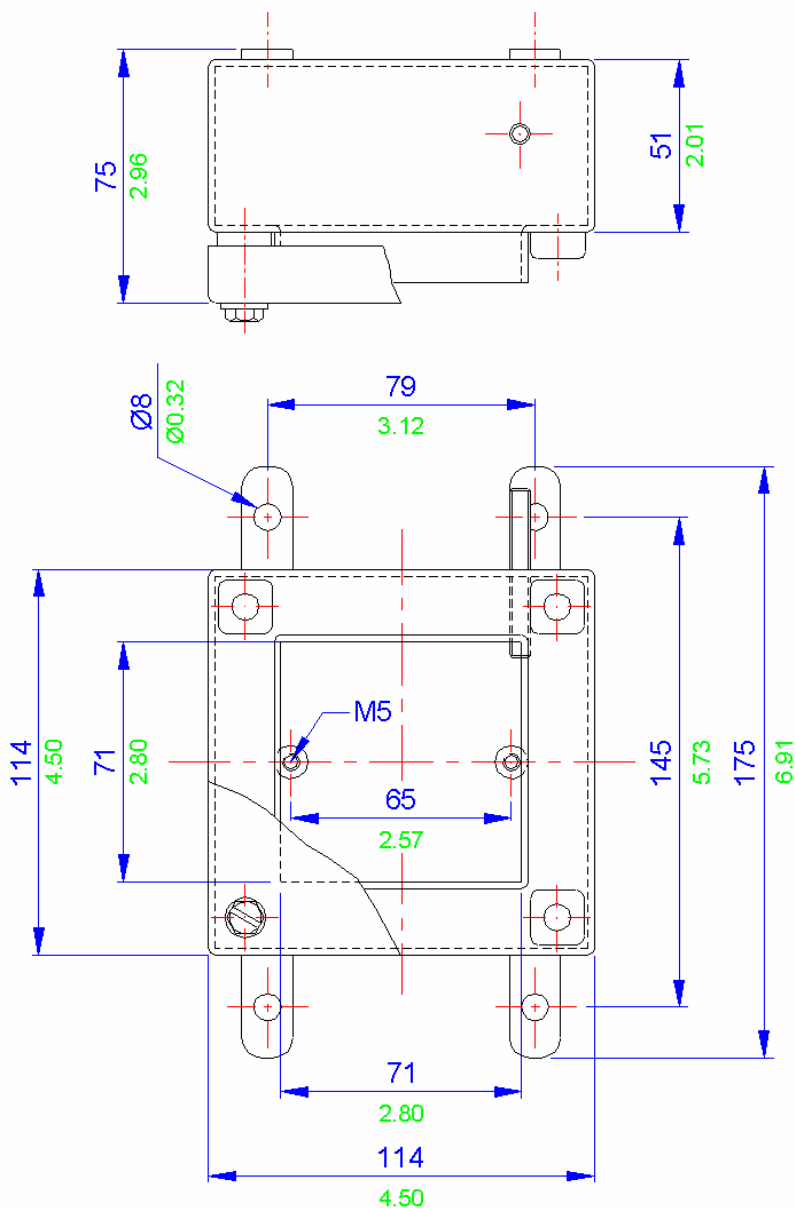
Specials

8

Technical

9

MSX 45 / SSX 45 Drawing



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

| 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<br>(standard neoprene gasket)    |  | SAK 70                 | 0       | 284-691     | 0            | Side B-D                                                                                                 | 114 x 51mm |   |
|                                        | -70° to 130° C<br>(silicone gasket)            |  |                        |         | 283-691     | 0            |                         |            |   |
|                                        | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |  |                        |         | 285-691     | 0            |                                                                                                          |            |   |
| ATEX EEx nA (Zone 2)<br>BS EN 60079-15 |                                                |  |                        | 280-998 | 8           |              |                                                                                                          |            |   |
| Certification                          | ATEX EEx nR (Zone 2)<br>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 & Zone 2)           |  | UK 2.5 N               | 9       | 264-132 (2) | 4            |                                                                                                          |            |   |
|                                        | GOST-R Ex e (Zone 1 & Zone 2)                  |  | UK 3 N                 | 9       | 264-134 (4) | 1            |                                                                                                          |            |   |
|                                        | NEMA 4X (CSA, UL & FM)<br>(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       |             |              |                                                                                                          |            |   |
|                                        |                                                |  |                        |         |             |              |                                                                                                          |            |   |

SX Range

1

BPG Range

2

BPGA Range

3

ZAG Range

4

High Voltage

5

Fire Rated

6

ZP Range

7

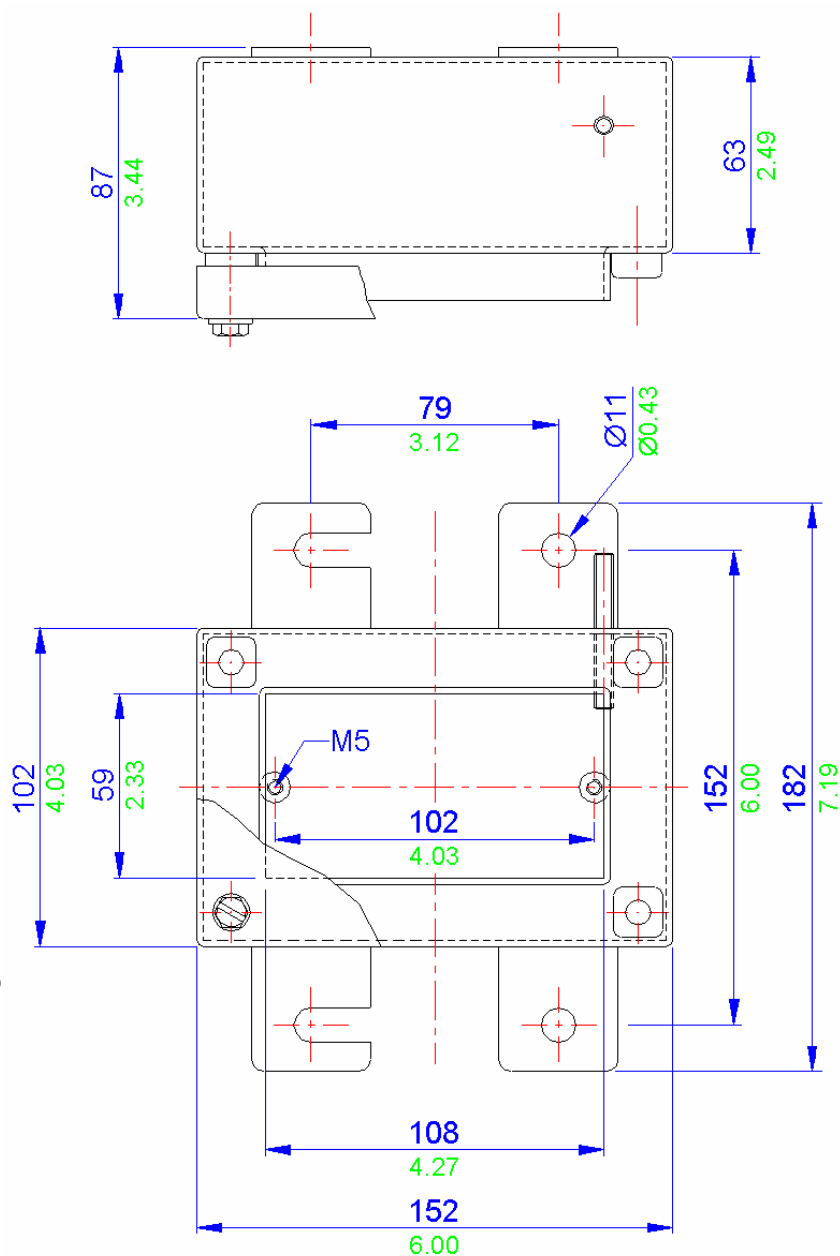
Specials

8

Technical

9

MSX 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                                         | <div> <div>Maximum Number of Rows</div> <div>1</div> </div> | Weidmuller           |    | <div> <div>Wago</div> <div>18</div> </div> | Entry Size                                                                                                            | Side A-C   |
| Length                                                                                                   | 152mm                                         |                                                             | SAK 2.5              | 15 |                                            | M16                                                                                                                   | 6          |
| Depth                                                                                                    | 63mm                                          |                                                             | SAK 4                | 15 |                                            | M20                                                                                                                   | 3          |
| Material                                                                                                 | Mild steel                                    |                                                             | SAK 6                | 11 |                                            | M25                                                                                                                   | 2          |
|                                                                                                          | Stainless steel 316 (1.4404)                  |                                                             | SAK 10 *             | 9  |                                            | M32                                                                                                                   | 1          |
| Weight                                                                                                   | 1500g                                         |                                                             | SAK 16 *             | 0  |                                            | M40                                                                                                                   | 0          |
| IP Rating                                                                                                | 66 or 67                                      |                                                             | SAK 35               | 0  |                                            | Drilling Envelope                                                                                                     |            |
| Temperature                                                                                              | -40° to 80° C<br>(standard neoprene gasket)   |                                                             | SAK 70               | 0  |                                            | Side A-C                                                                                                              | 102 x 63mm |
|                                                                                                          | -70° to 130° C<br>(silicone gasket)           |                                                             |                      |    |                                            | Side B-D                                                                                                              | 152 x 63mm |
| Certification                                                                                            | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7 |                                                             |                      |    |                                            | <div> <div>ABTECH</div> <div>A B C D</div> </div>                                                                     |            |
|                                                                                                          | ATEX EEx nA (Zone 2)<br>BS EN 60079-15        |                                                             |                      |    |                                            |                                                                                                                       |            |
|                                                                                                          | ATEX EEx nR (Zone 2)<br>BS EN 60079-15        |                                                             |                      |    |                                            | <div> <div>SX 64 Photo</div>  </div> |            |
|                                                                                                          | CSA - Ex e (Class 1 Zone 1 & Zone 2)          |                                                             | Phoenix              |    |                                            |                                                                                                                       |            |
|                                                                                                          | FM - AEx e (Class 1 Zone 1 & Zone 2)          |                                                             | UK 2.5 N             | 17 | 264-132 (2)                                |                                                                                                                       |            |
|                                                                                                          | GOST-R Ex e (Zone 1 & Zone 2)                 |                                                             | UK 3 N               | 17 | 264-134 (4)                                |                                                                                                                       |            |
| Power Rating                                                                                             | 10.258W                                       |                                                             | UK 5 N               | 15 | 262-132 (2)                                |                                                                                                                       |            |
|                                                                                                          |                                               |                                                             | UK 10 N *            | 9  | 262-134 (4)                                |                                                                                                                       |            |
|                                                                                                          |                                               |                                                             | 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. |                                               |                                                             |                      |    |                                            |                                                                                                                       |            |

Technical

9

Specials

8

ZP Range

7

Fire Rated

6

High Voltage

5

ZAG Range

4

BPGA Range

3

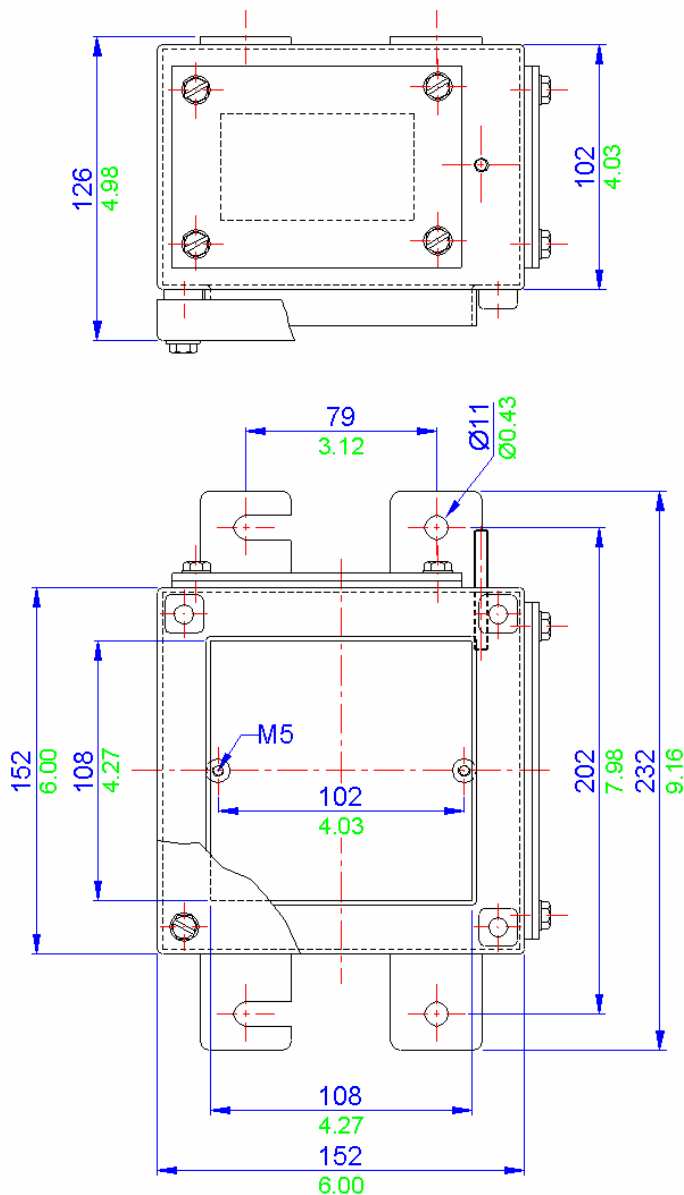
BPG Range

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SX Range

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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    |                                                                                                         | M16                                                                               | 14       | 14 |
| Depth                                  | 102mm                                          |                                               | SAK 2.5                                                                                                  | 15          | 280-992 | 18                                                                                                      | M20                                                                               | 8        | 8  |
| Material                               | Mild steel                                     |                                               | SAK 4                                                                                                    | 15          | 280-999 | 18                                                                                                      | M25                                                                               | 6        | 6  |
|                                        | Stainless steel 316 (1.4404)                   |                                               | SAK 6                                                                                                    | 11          | 281-691 | 15                                                                                                      | M32                                                                               | 3        | 3  |
| Weight                                 | 2200g                                          | SAK 10 *                                      | 9                                                                                                        | 281-992     | 15      | M40                                                                                                     | 2                                                                                 | 2        |    |
| IP Rating                              | 66 or 67                                       | SAK 16 *                                      | 7                                                                                                        | 281-993     | 15      | Drilling Envelope                                                                                       |                                                                                   |          |    |
| Temperature                            | -40° to 80° C<br>(standard neoprene gasket)    | SAK 35 *                                      | 6                                                                                                        | 282-691     | 11      | Side A-C                                                                                                | 152 x 102mm                                                                       |          |    |
|                                        | -70° to 130° C<br>(silicone gasket)            | SAK 70                                        | 0                                                                                                        | 284-691     | 10      | Side B-D                                                                                                | 152 x 102mm                                                                       |          |    |
|                                        | Certification                                  | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7 |                                                                                                          |             | 283-691 | 7                                                                                                       |  |          |    |
| ATEX EEx nA (Zone 2)<br>BS EN 60079-15 |                                                |                                               |                                                                                                          | 285-691     | 0       |                                                                                                         |                                                                                   |          |    |
| ATEX EEx nR (Zone 2)<br>BS EN 60079-15 |                                                |                                               |                                                                                                          | 280-998     | 18      |                                                                                                         |                                                                                   |          |    |
| CSA - Ex e (Class 1 Zone 1 & Zone 2)   |                                                |                                               |                                                                                                          | 281-998     | 15      |                                                                                                         |                                                                                   |          |    |
| FM - AEx e (Class 1 Zone 1 & Zone2)    |                                                |                                               |                                                                                                          | 264-120     | 16      |                                                                                                         |                                                                                   |          |    |
| Power Rating                           | GOST-R Ex e (Zone 1 & Zone 2)                  | Phoenix                                       |                                                                                                          | 264-220     | 10      | <b>SX 66 Photo</b><br> |                                                                                   |          |    |
|                                        | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) | UK 2.5 N                                      | 17                                                                                                       | 264-132 (2) | 3       |                                                                                                         |                                                                                   |          |    |
|                                        |                                                | UK 3 N                                        | 17                                                                                                       | 264-134 (4) | 2       |                                                                                                         |                                                                                   |          |    |
|                                        |                                                | UK 5 N                                        | 14                                                                                                       | 262-132 (2) | 3       |                                                                                                         |                                                                                   |          |    |
|                                        |                                                | UK 10 N *                                     | 9                                                                                                        | 262-134 (4) | 2       |                                                                                                         |                                                                                   |          |    |
|                                        |                                                | UK 16 N *                                     | 7                                                                                                        |             |         |                                                                                                         |                                                                                   |          |    |
|                                        |                                                | UK 35 N *                                     | 6                                                                                                        |             |         |                                                                                                         |                                                                                   |          |    |
|                                        |                                                |                                               | * Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius. |             |         |                                                                                                         |                                                                                   |          |    |

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1

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2

BPGA Range

3

ZAG Range

4

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5

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6

ZP Range

7

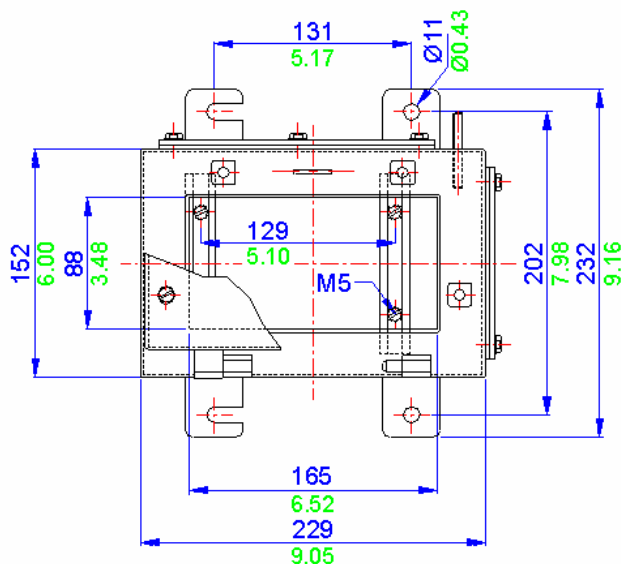
Specials

8

Technical

9

## 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                               | 200mm deep 4000g |  |                        | SAK 10 * | 12          | 281-992 | M40                                                                               | 1                       | 2        |
| Weight                                                                                                   | 66 or 67                                       |                  |  | SAK 16 *               | 10       | 281-993     | 20      | Drilling Envelope                                                                 |                         |          |
| IP Rating                                                                                                | -40° to 80° C (standard neoprene gasket)       |                  |  | SAK 35 *               | 7        | 282-691 *   | 15      | Side A-C                                                                          | 87 x 75mm (4 x gp 140)  |          |
| Temperature                                                                                              | -70° to 130° C (silicone gasket)               |                  |  | SAK 70 *               | 5        | 284-691 *   | 12      | Side B-D                                                                          | 144 x 75mm (4 x gp 140) |          |
| Certification                                                                                            | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |                  |  |                        |          | 285-691     | 0       |  |                         |          |
|                                                                                                          | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |                  |  |                        |          | 280-998     | 24      |                                                                                   |                         |          |
|                                                                                                          | ATEX EEx nR (Zone 2)<br>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)            |                  |  | Phoenix                |          | 264-220     | 12      |                                                                                   |                         |          |
|                                                                                                          | GOST-R Ex e (Zone 1 & Zone 2)                  |                  |  | UK 2.5 N               | 25       | 264-132 (2) | 4       |                                                                                   |                         |          |
|                                                                                                          | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |                  |  | UK 3 N                 | 25       | 264-134 (4) | 3       |                                                                                   |                         |          |
| Power Rating                                                                                             | 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        |             |         |                                                                                   |                         |          |
| * 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

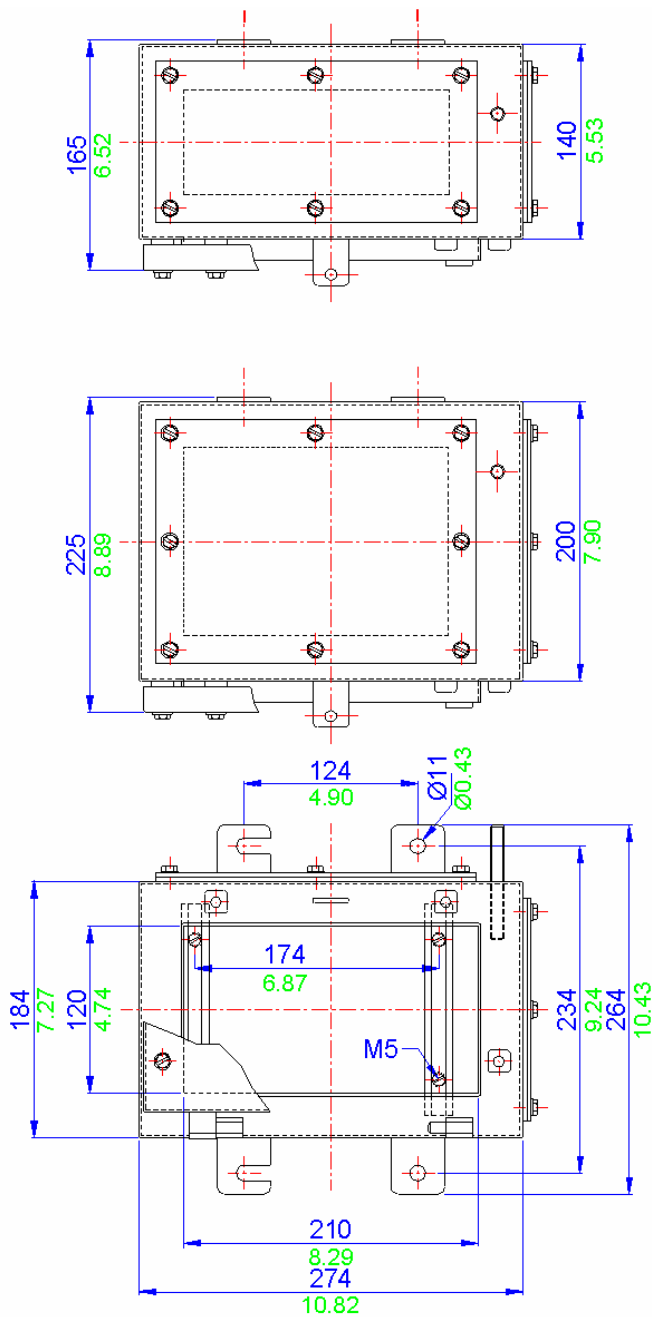
Specials

8

Technical

9

MSX 0.5 / SSX 0.5 Drawing



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<br>5000g                            | 200mm deep<br>6000g |  |
| IP Rating                        | 66 or 67                                       |                     |  |
| Temperature                      | -40° to 80° C<br>(standard neoprene gasket)    |                     |  |
|                                  | -70° to 130° C<br>(silicone gasket)            |                     |  |
| Certification                    | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |                     |  |
|                                  | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |                     |  |
|                                  | ATEX EEx nR (Zone 2)<br>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)                  |                     |  |
| Power Rating                     | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |                     |  |
|                                  | 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

9

Specials

8

ZP Range

7

Fire Rated

6

High Voltage

5

ZAG Range

4

BPGA Range

3

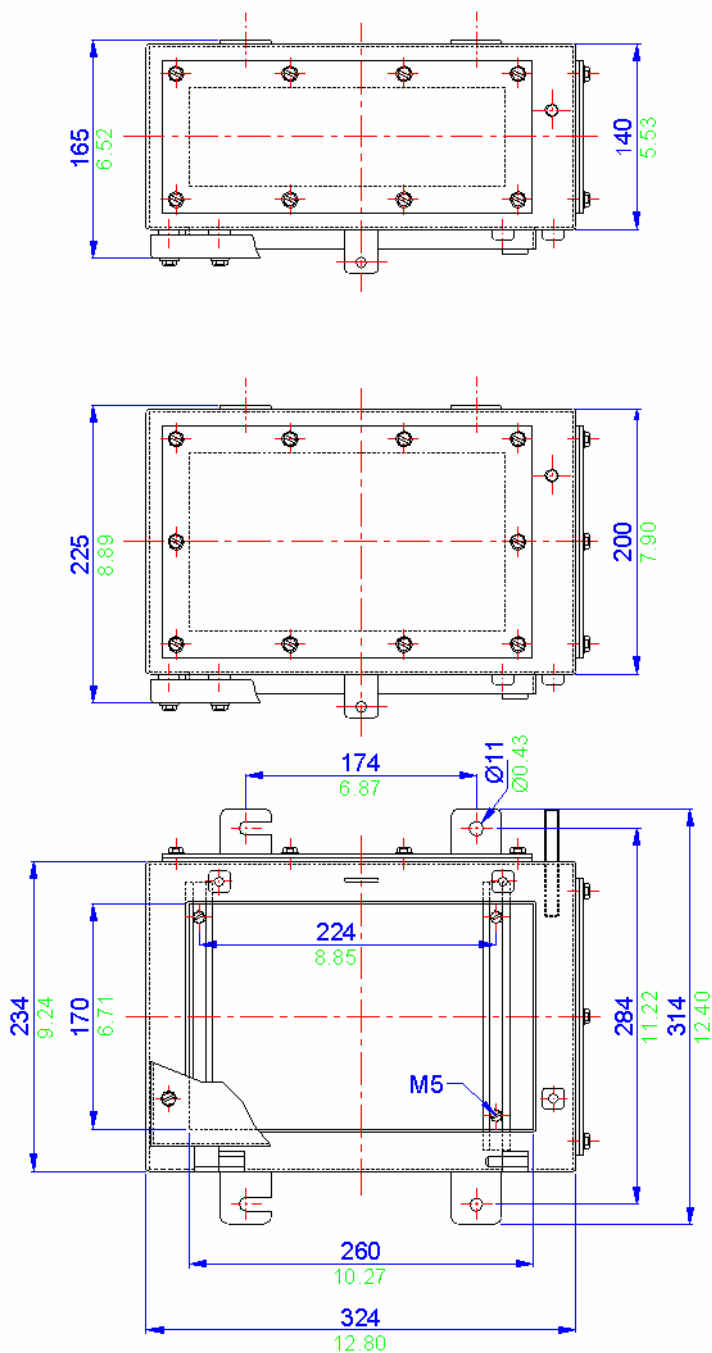
BPG Range

2

SX Range

1

MSX 1 / SSX 1 Drawing



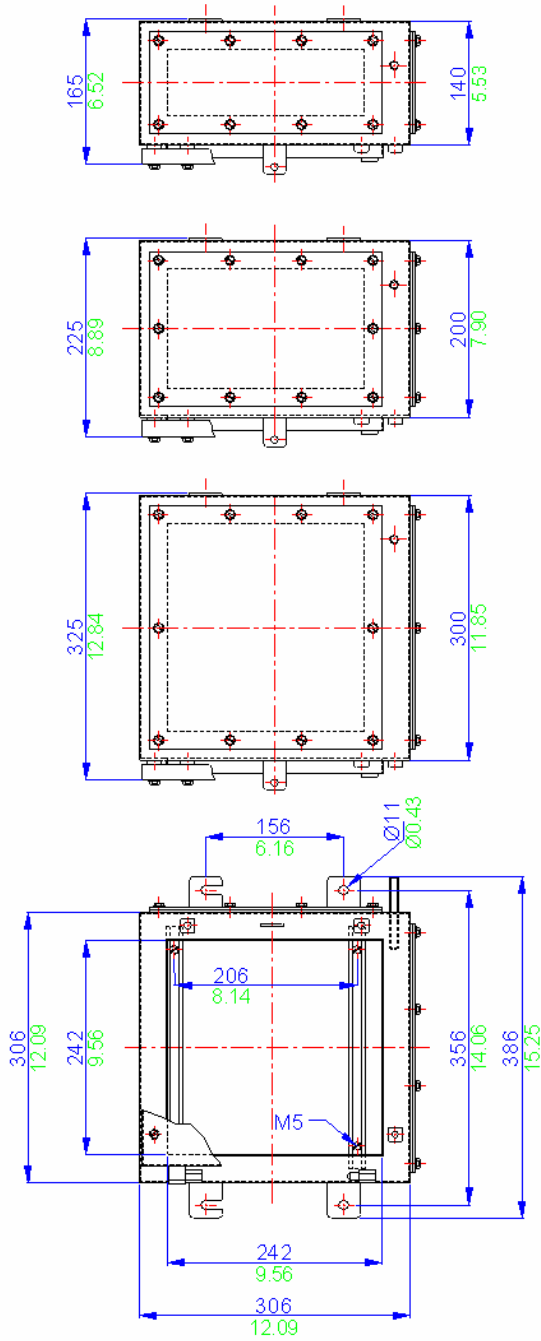
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

| 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      |  | M20                                                                               | 7                       | 10       |  |
| Material                     | Mild steel                                    |  |  | SAK 4                                                                                                    |  | 66      |  | M25                                                                               | 4                       | 6        |  |
|                              | Stainless steel 316 (1.4404)                  |  |  | SAK 6                                                                                                    |  | 54      |  | M32                                                                               | 2                       | 4        |  |
|                              | 140mm deep<br>6300g                           |  |  | SAK 10 *                                                                                                 |  | 44      |  | M40                                                                               | 2                       | 3        |  |
| Weight                       | 200mm deep<br>7200g                           |  |  | SAK 16 *                                                                                                 |  | 18      |  | Drilling Envelope                                                                 |                         |          |  |
| IP Rating                    | 66 or 67                                      |  |  | SAK 35 *                                                                                                 |  | 14      |  | Side A-C                                                                          | 169 x 75mm (4 x gp 140) |          |  |
| Temperature                  | -40° to 80° C<br>(standard neoprene gasket)   |  |  | SAK 70 *                                                                                                 |  | 10      |  | Side B-D                                                                          | 239 x 75mm (4 x gp 140) |          |  |
|                              | -70° to 130° C<br>(silicone gasket)           |  |  |                                                                                                          |  |         |  |  |                         |          |  |
|                              |                                               |  |  |                                                                                                          |  |         |  |                                                                                   |                         |          |  |
|                              |                                               |  |  |                                                                                                          |  |         |  |                                                                                   |                         |          |  |
| Certification                | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7 |  |  |                                                                                                          |  | 280-998 |  |  |                         |          |  |
|                              | ATEX EEx nA (Zone 2)<br>BS EN 60079-15        |  |  |                                                                                                          |  | 281-998 |  |                                                                                   |                         |          |  |
|                              | ATEX EEx nR (Zone 2)<br>BS EN 60079-15        |  |  |                                                                                                          |  | 264-120 |  |                                                                                   |                         |          |  |
|                              |                                               |  |  | Phoenix                                                                                                  |  | 264-220 |  |                                                                                   |                         |          |  |
|                              |                                               |  |  | UK 2.5 N                                                                                                 |  | 86      |  |                                                                                   |                         |          |  |
| Power Rating                 |                                               |  |  | UK 3 N                                                                                                   |  | 86      |  |                                                                                   |                         |          |  |
|                              |                                               |  |  | UK 5 N                                                                                                   |  | 72      |  |                                                                                   |                         |          |  |
|                              |                                               |  |  | UK 10 N *                                                                                                |  | 44      |  |                                                                                   |                         |          |  |
|                              |                                               |  |  | 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. |  |         |  |                                                                                   |                         |          |  |

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

|           |   |          |   |          |   |            |   |              |   |           |   |            |   |           |   |          |   |
|-----------|---|----------|---|----------|---|------------|---|--------------|---|-----------|---|------------|---|-----------|---|----------|---|
| 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 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



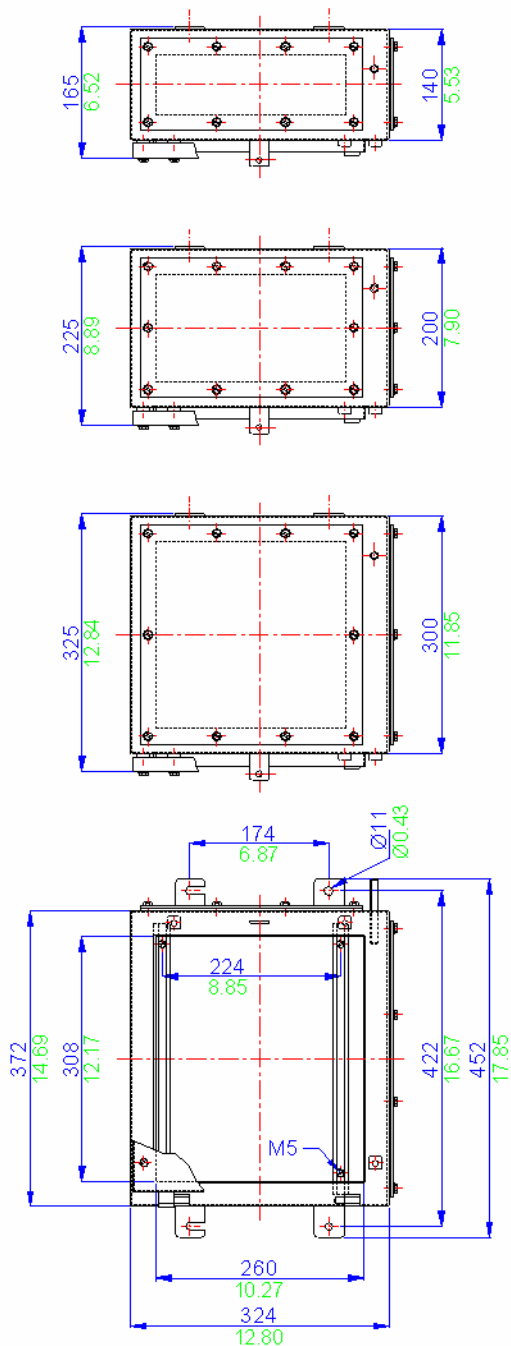
| Terminal Populations                                                                                     |     |             |    |
|----------------------------------------------------------------------------------------------------------|-----|-------------|----|
| Maximum Number of Rows                                                                                   |     | 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                              |            |  |
| Power Rating                     | 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) |            |  |
|                                  | 32.284W                                     |            |  |

|           |   |            |   |              |   |           |   |            |   |           |   |          |   |
|-----------|---|------------|---|--------------|---|-----------|---|------------|---|-----------|---|----------|---|
| Technical | 9 | Fire Rated | 6 | High Voltage | 5 | ZAG Range | 4 | BPGA Range | 3 | BPG Range | 2 | SX Range | 1 |
|-----------|---|------------|---|--------------|---|-----------|---|------------|---|-----------|---|----------|---|

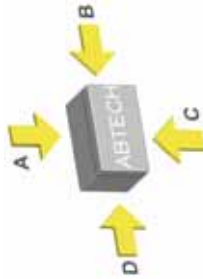
MSX 2 / SSX 2 Drawing



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



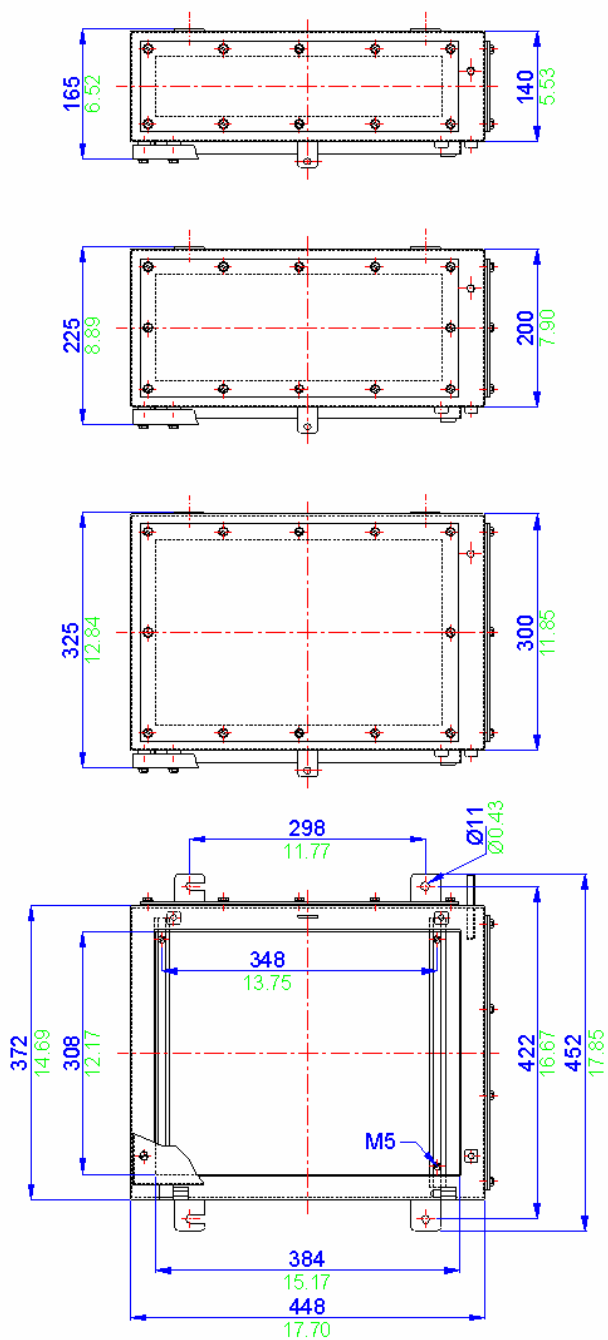
| Terminal Populations   |     |             |     |
|------------------------|-----|-------------|-----|
| Maximum Number of Rows |     | 3           |     |
| Weidmuller             |     | Wago        |     |
| SAK 2.5                | 132 | 280-992     | 150 |
| SAK 4                  | 123 | 280-999     | 150 |
| SAK 6                  | 99  | 281-691     | 126 |
| SAK 10                 | 78  | 281-992     | 126 |
| SAK 16                 | 66  | 281-993     | 84  |
| SAK 35                 | 42  | 282-691     | 99  |
| SAK 70                 | 24  | 284-691 *   | 78  |
|                        |     | 283-691 *   | 44  |
|                        |     | 285-691 *   | 30  |
|                        |     | 280-998     | 150 |
|                        |     | 281-998     | 126 |
|                        |     | 264-120     | 132 |
| Phoenix                |     | 264-220     | 78  |
| UK 2.5 N               | 156 | 264-132 (2) | 27  |
| UK 3 N                 | 156 | 264-134 (4) | 18  |
| UK 5 N                 | 132 | 262-132 (2) | 27  |
| UK 10 N                | 78  | 262-134 (4) | 18  |
| 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<br>(standard neoprene gasket)    |            |
|                              | -70° to 130° C<br>(silicone gasket)            |            |
| Certification                | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |            |
|                              | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |            |
|                              | ATEX EEx nR (Zone 2)<br>BS EN 60079-15         |            |
|                              | CSA - Ex e (Class 1 Zone 1 & Zone 2)           |            |
|                              | FM - AEx e (Class 1 Zone 1 & Zone2)            |            |
| Power Rating                 | GOST-R Ex e (Zone 1 & Zone 2)                  |            |
|                              | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |            |
|                              | 36.500W                                        |            |

|           |   |          |   |          |   |            |   |              |   |           |   |            |   |           |   |          |   |
|-----------|---|----------|---|----------|---|------------|---|--------------|---|-----------|---|------------|---|-----------|---|----------|---|
| 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 3 / SSX 3 Drawing



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

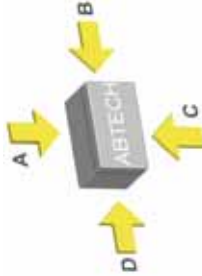
## Stainless Steel and Mild Steel Enclosures

| 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     | 189               | M20                                                                               | 14                      | 16       |
| Material                                                                                                 | Mild steel                                  |            |  | SAK 4                  | 156     | 280-999     | 189               | M25                                                                               | 7                       | 9        |
|                                                                                                          | Stainless steel 316 (1.4404)                |            |  | SAK 6                  | 126     | 281-691     | 162               | M32                                                                               | 5                       | 6        |
|                                                                                                          | 140mm deep                                  | 200mm deep |  | SAK 10 *               | 102     | 281-992     | 162               | M40                                                                               | 4                       | 5        |
| 11.3Kg                                                                                                   | 13.3Kg                                      | SAK 16 *   |  | 84                     | 281-993 | 108         | Drilling Envelope |                                                                                   |                         |          |
| 66 or 67                                                                                                 |                                             |            |  | SAK 35 *               | 63      | 282-691     | 126               | Side A-C                                                                          | 307 x 75mm (4 x gp 140) |          |
| IP Rating                                                                                                | -40° to 80° C<br>(standard neoprene gasket) |            |  | SAK 70 *               | 45      | 284-691 *   | 99                | Side B-D                                                                          | 363 x 75mm (4 x gp 140) |          |
|                                                                                                          | -70° to 130° C<br>(silicone gasket)         |            |  |                        |         | 283-691 *   | 56                |  |                         |          |
|                                                                                                          |                                             |            |  |                        |         | 285-691 *   | 38                |                                                                                   |                         |          |
| Temperature                                                                                              | ATEX EEx e (Zone 1 & Zone 2)                |            |  |                        |         | 280-998     | 189               |                                                                                   |                         |          |
|                                                                                                          | BS EN 60079-7                               |            |  |                        |         | 281-998     | 162               |                                                                                   |                         |          |
|                                                                                                          | ATEX EEx nA (Zone 2)                        |            |  |                        |         | 264-120     | 168               |                                                                                   |                         |          |
|                                                                                                          | BS EN 60079-15                              |            |  |                        |         |             |                   |                                                                                   |                         |          |
|                                                                                                          | ATEX EEx nR (Zone 2)                        |            |  | Phoenix                |         | 264-220     | 99                |                                                                                   |                         |          |
|                                                                                                          | BS EN 60079-15                              |            |  | UK 2.5 N               | 201     | 264-132 (2) | 36                |                                                                                   |                         |          |
| Certification                                                                                            | CSA - Ex e (Class 1 Zone 1 & Zone 2)        |            |  | UK 3 N                 | 201     | 264-134 (4) | 24                |                                                                                   |                         |          |
|                                                                                                          | FM - AEx e (Class 1 Zone 1 & Zone2)         |            |  | UK 5 N                 | 168     | 262-132 (2) | 36                |                                                                                   |                         |          |
|                                                                                                          | GOST-R Ex e (Zone 1 & Zone 2)               |            |  | UK 10 N *              | 102     | 262-134 (4) | 24                |                                                                                   |                         |          |
|                                                                                                          | NEMA 4X (CSA, UL & FM)                      |            |  | UK 16 N *              | 84      |             |                   |                                                                                   |                         |          |
|                                                                                                          | (class 1 division 2)                        |            |  | UK 35 N *              | 69      |             |                   |                                                                                   |                         |          |
|                                                                                                          | 42.289W                                     |            |  |                        |         |             |                   |                                                                                   |                         |          |
| Power Rating                                                                                             |                                             |            |  |                        |         |             |                   |                                                                                   |                         |          |
| * Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius. |                                             |            |  |                        |         |             |                   |                                                                                   |                         |          |



### SX 3 Photo

## 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

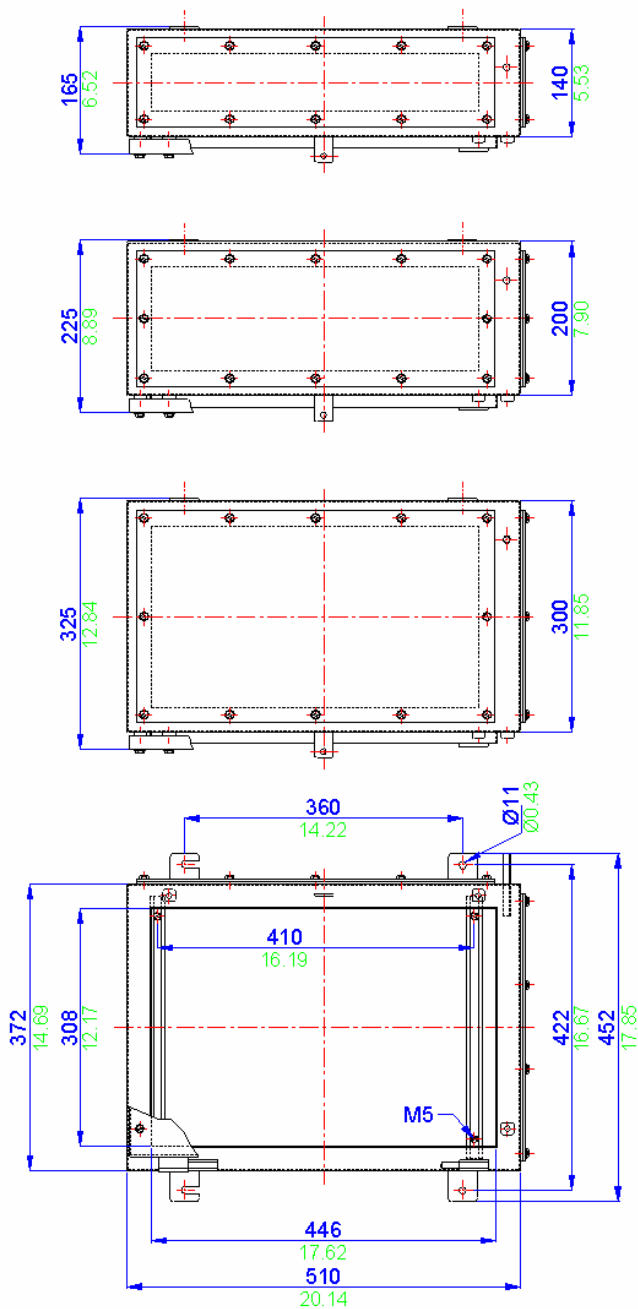
BPG Range

2

SX Range

1

## MSX 4 / SSX 4 Drawing



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

| 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) |          |



| 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                |      |             |     |
| 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<br>(standard neoprene gasket)    |            |  |
|                              | -70° to 130° C<br>(silicone gasket)            |            |  |
| Certification                | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |            |  |
|                              | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |            |  |
|                              | ATEX EEx nR (Zone 2)<br>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)                  |            |  |
| Power Rating                 | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |            |  |
|                              | 44.726W                                        |            |  |

Technical

9

Specials

8

ZP Range

7

Fire Rated

6

High Voltage

5

ZAG Range

4

BPGA Range

3

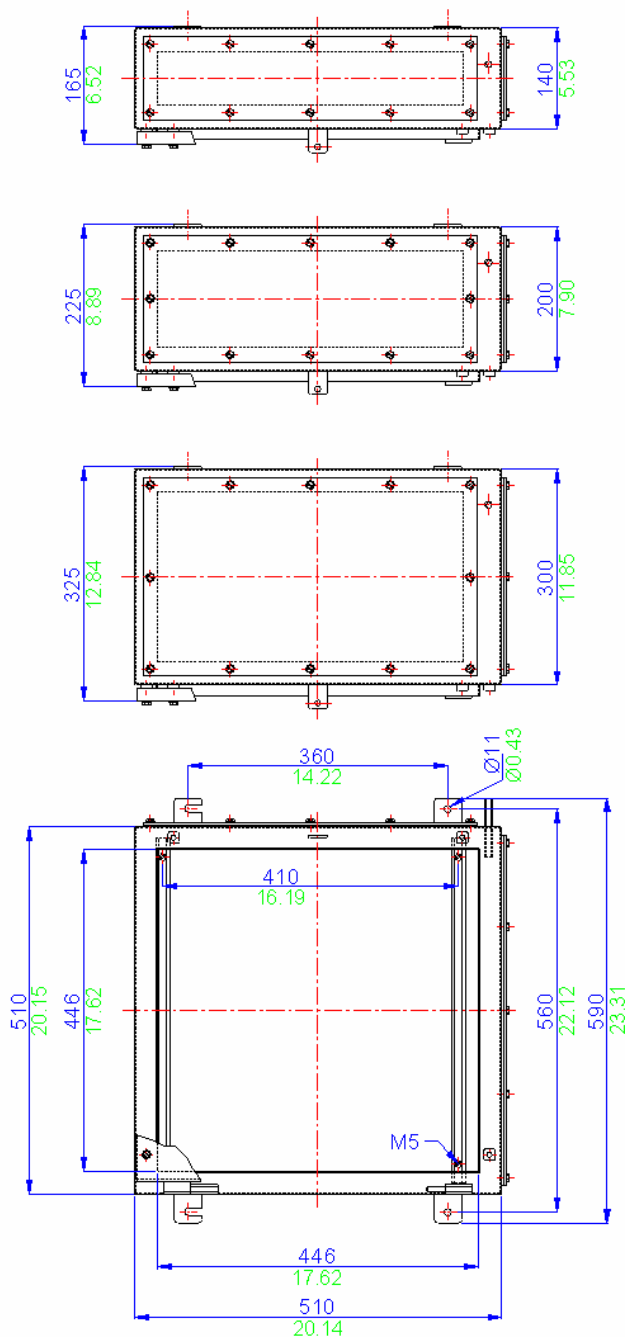
BPG Range

2

SX Range

1

## MSX 5 / SSX 5 Drawing



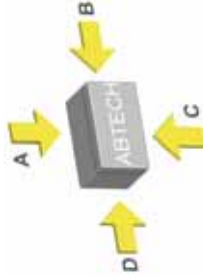
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

## 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

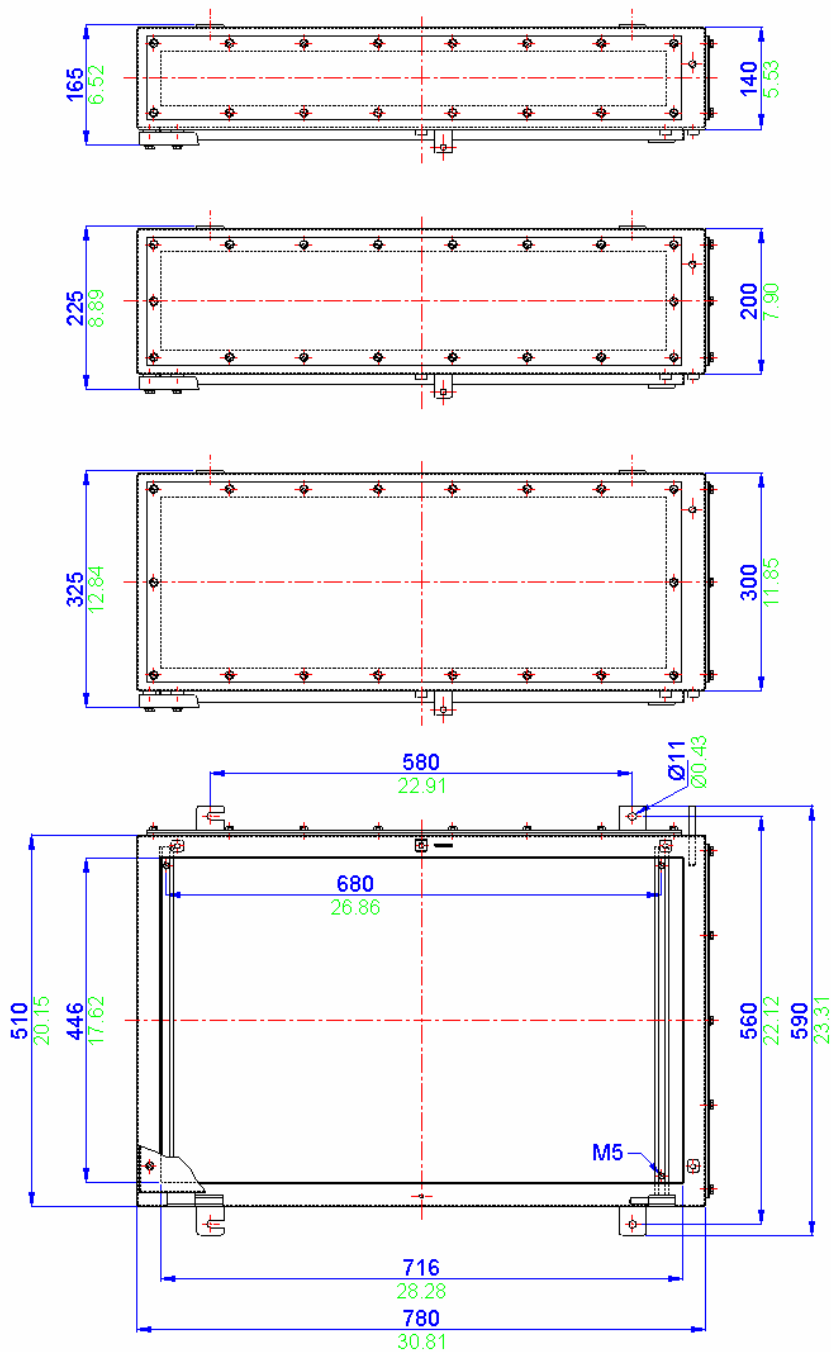


| Terminal Populations                                                                                     |      |             |     |
|----------------------------------------------------------------------------------------------------------|------|-------------|-----|
| Maximum Number of Rows                                                                                   | 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  
1BPG Range  
2BPGA Range  
3ZAG Range  
4High Voltage  
5Fire Rated  
6ZP Range  
7Specials  
8Technical  
9

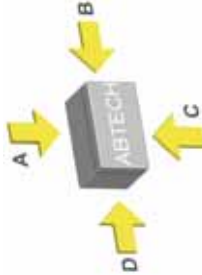
MSX 6 / SSX 6 Drawing



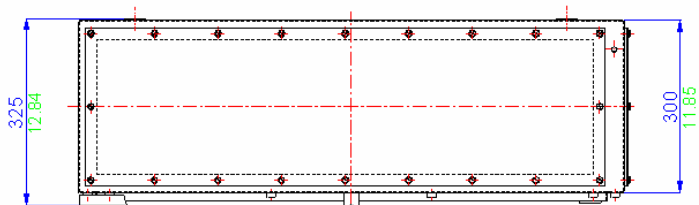
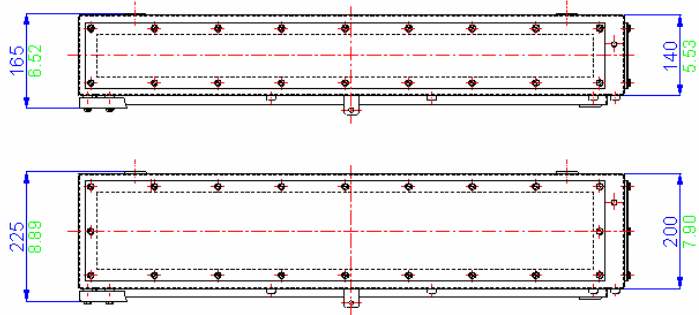
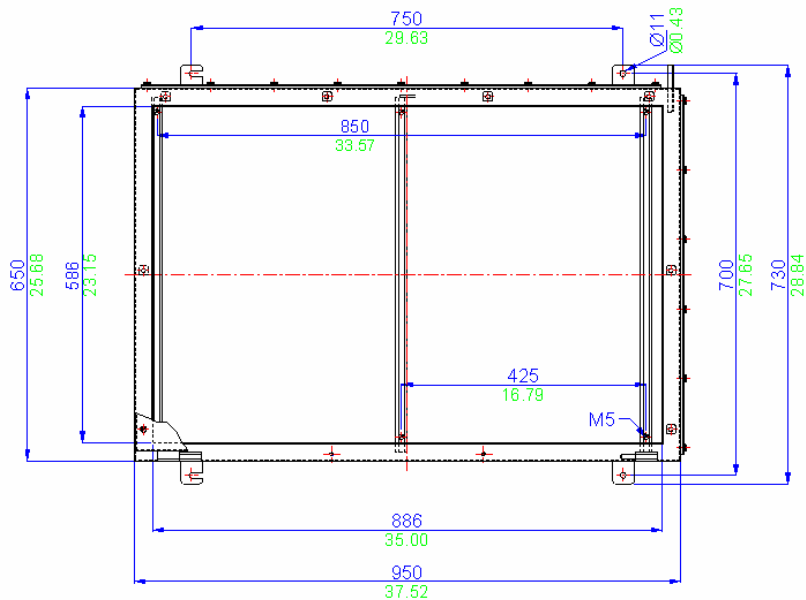
All blue dimensions in mm, all green dimensions in decimal inches (drawing not to scale)

## 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<br>24.0kg                                | 200mm<br>27.0kg | 300mm<br>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<br>(standard neoprene gasket)    |                 |                 | SAK 35                                                                                                   | 168     | 282-691     | Side A-C                                                                          | 445 x 75mm (4 x gp 140) |          |
|                                        | -70° to 130° C<br>(silicone gasket)            |                 |                 | SAK 70                                                                                                   | 120     | 284-691     | Side B-D                                                                          | 695 x 75mm (4 x gp 140) |          |
|                                        | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |                 |                 |                                                                                                          |         | 283-691     |  |                         |          |
| ATEX EEx nA (Zone 2)<br>BS EN 60079-15 |                                                |                 |                 |                                                                                                          | 280-998 |             |                                                                                   |                         |          |
| ATEX EEx nR (Zone 2)<br>BS EN 60079-15 |                                                |                 |                 |                                                                                                          | 281-998 |             |                                                                                   |                         |          |
| Certification                          | CSA - Ex e (Class 1 Zone 1 & Zone 2)           |                 |                 | Phoenix                                                                                                  | 264-120 |             | SX 6 Photo                                                                        |                         |          |
|                                        | FM - AEx e (Class 1 Zone 1 & Zone2)            |                 |                 | UK 2.5 N                                                                                                 | 524     | 264-132 (2) |  |                         |          |
|                                        | GOST-R Ex e (Zone 1 & Zone 2)                  |                 |                 | UK 3 N                                                                                                   | 524     | 264-134 (4) |                                                                                   |                         |          |
|                                        | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |                 |                 | UK 5 N                                                                                                   | 440     | 262-132 (2) |                                                                                   |                         |          |
|                                        | Power Rating                                   | 57.383W         |                 |                                                                                                          | UK 10 N | 264         | 262-134 (4)                                                                       |                         |          |
|                                        |                                                |                 | UK 16 N         | 229                                                                                                      |         |             |                                                                                   |                         |          |
|                                        |                                                |                 |                 | UK 35 N                                                                                                  | 176     |             |                                                                                   |                         |          |
|                                        |                                                |                 |                 | * Care must be taken to ensure that the size of this enclosure can accommodate the cable bending radius. |         |             |                                                                                   |                         |          |

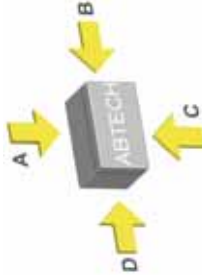
SX Range  
1BPG Range  
2BPGA Range  
3ZAG Range  
4High Voltage  
5Fire Rated  
6ZP Range  
7Specials  
8Technical  
9

## MSX 7 / SSX 7 Drawing

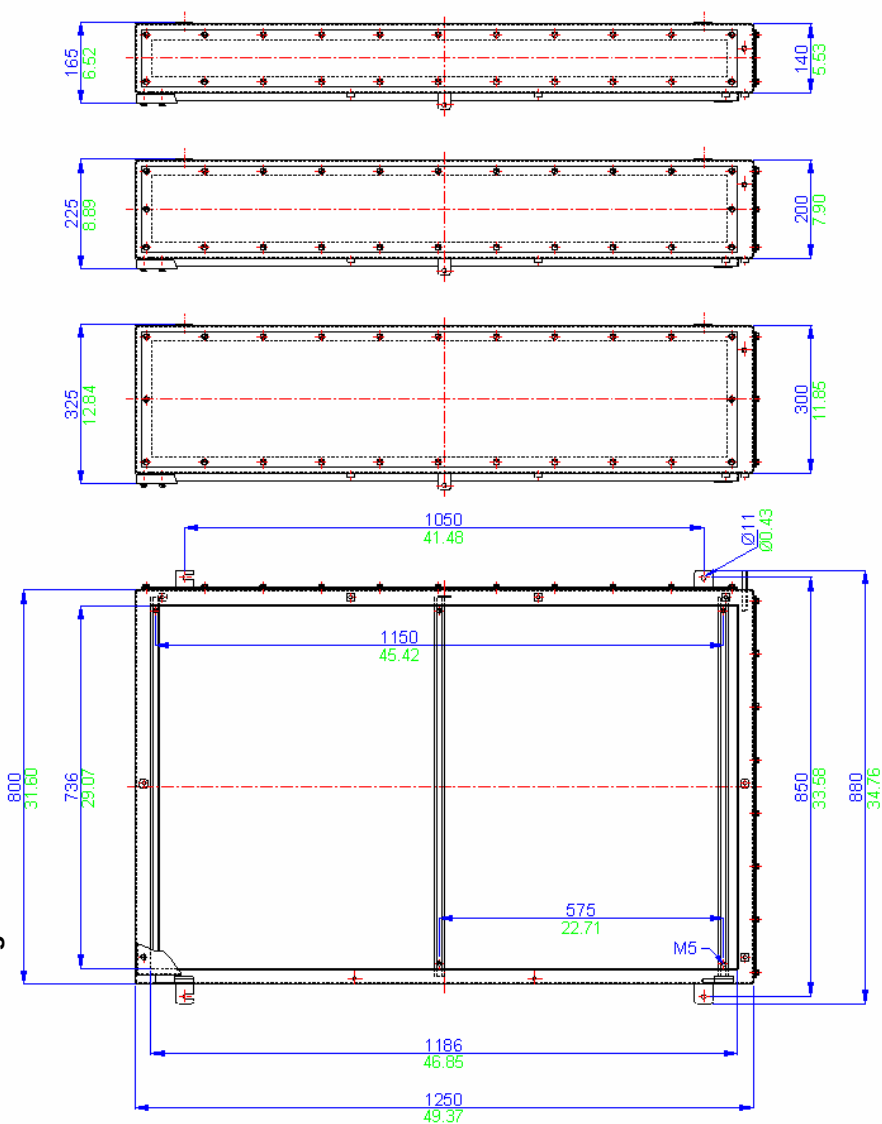


All **blue** dimensions in mm, all **green** dimensions in decimal inches (drawing not to scale)

| 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<br>35.0kg                                | 200mm<br>39.0kg | 300mm<br>52.0kg | SAK 10                 | 415 | 281-992     | M40                                                                                                      | 8                       | 16       |
| IP Rating                    | 66 or 67                                       |                 |                 | SAK 16                 | 345 | 281-993     | <b>Drilling Envelope</b>                                                                                 |                         |          |
| Temperature                  | -40° to 80° C<br>(standard neoprene gasket)    |                 |                 | SAK 35                 | 260 | 282-691     | Side A-C                                                                                                 | 585 x 75mm (4 x gp 140) |          |
|                              | -70° to 130° C<br>(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)<br>BS EN 60079-7  |                 |                 |                        |     | 283-691     |                         |                         |          |
|                              | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |                 |                 |                        |     | 285-691     |                                                                                                          |                         |          |
|                              | ATEX EEx nR (Zone 2)<br>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)                  |                 |                 | <b>Phoenix</b>         |     | 264-220     | <b>SX 7 Photo</b>                                                                                        |                         |          |
|                              | NEMA 4X (CSA, UL & FM)<br>(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. |                         |          |



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    | Side B-D |
| Length                                                                                                   | 1250mm                                         |                 |                 | Weidmuller             | Wago |             | M16                                                                               | 42          | 66       |
| Depth                                                                                                    | 140mm or 200mm or 300mm                        |                 |                 | SAK 2.5                | 1295 | 280-992     | M20                                                                               | 36          | 58       |
| Material                                                                                                 | Mild steel                                     |                 |                 | SAK 4                  | 635  | 280-999     | M25                                                                               | 18          | 30       |
|                                                                                                          | Stainless steel 316 (1.4404)                   |                 |                 | SAK 6                  | 520  | 281-691     | M32                                                                               | 12          | 20       |
|                                                                                                          | 140mm<br>40.0kg                                | 200mm<br>52.0kg | 300mm<br>59.0kg | SAK 10                 | 415  | 281-992     | M40                                                                               | 10          | 17       |
| IP Rating                                                                                                | 66 or 67                                       |                 |                 | SAK 16                 | 345  | 281-993     | Drilling Envelope                                                                 |             |          |
| Temperature                                                                                              | -40° to 80° C<br>(standard neoprene gasket)    |                 |                 | SAK 35                 | 260  | 282-691     | Side A-C                                                                          | 735 x 75mm  |          |
|                                                                                                          | -70° to 130° C<br>(silicone gasket)            |                 |                 | SAK 70                 | 150  | 284-691     | Side B-D                                                                          | 1165 x 75mm |          |
| Certification                                                                                            | ATEX EEx e (Zone 1 & Zone 2)<br>BS EN 60079-7  |                 |                 |                        |      | 283-691     |  |             |          |
|                                                                                                          | ATEX EEx nA (Zone 2)<br>BS EN 60079-15         |                 |                 |                        |      | 285-691     |                                                                                   |             |          |
|                                                                                                          | ATEX EEx nR (Zone 2)<br>BS EN 60079-15         |                 |                 |                        |      | 280-998     |                                                                                   |             |          |
|                                                                                                          | CSA - Ex e (Class 1 Zone 1 & Zone 2)           |                 |                 |                        |      | 281-998     |                                                                                   |             |          |
|                                                                                                          | FM - AEx e (Class 1 Zone 1 & Zone 2)           |                 |                 |                        |      | 264-120     |                                                                                   |             |          |
| Power Rating                                                                                             | GOST-R Ex e (Zone 1 & Zone 2)                  |                 |                 | Phoenix                |      | 264-220     |  |             |          |
|                                                                                                          | NEMA 4X (CSA, UL & FM)<br>(class 1 division 2) |                 |                 | UK 2.5 N               | 820  | 264-132 (2) |                                                                                   |             |          |
|                                                                                                          | 119.462W                                       |                 |                 | 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



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