

# Exe Enclosures for Harsh and Hazardous Locations



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### Enclosures for Harsh & Hazardous locations

Hawke International have been producing Exe enclosures for over 30 years which are very highly regarded for their quality and exceptional strength – something extremely important in the demanding environments of the Oil & Gas, Petrochemical and Harsh and Hazardous industries.

For help in selecting the correct enclosure for your application see page 6



#### Glass Reinforced Polyester PL Range - General information

These enclosures are a self coloured black anti-static glass reinforced polyester design that meet the requirements of Exe II and ExtD to IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1. The PL6 Series Enclosures are of a robust design with a very high impact strength of up to 20Nm.



#### Stainless Steel S Range - General information

These enclosures are a stainless steel design that meets the requirements of Exe II and ExtD to IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.

The material qualities and electropolished finish provide a very high corrosion resistance.

### Enclosure Applications

Hawke International's enclosures may be supplied with fitted terminals or as an empty component approved enclosure. If supplied as the latter, then final certification by the customer after fitting their own equipment must be obtained. In this case, the prefix 'Z' is used when ordering.

i.e. ZSize1 (ZS1).

## Enclosure selection overview

The table below shows an overview of the terminal options available in each of the enclosures manufactured by Hawke International.

We understand the specification of a suitable enclosure can at first seem complex and daunting. The information below may help in the selection of a suitable enclosure using just the minimum amount of available information, such as the number of terminals needed, operating temperature or the maximum conductor acceptance.

Please see individual datasheets for full enclosure specifications

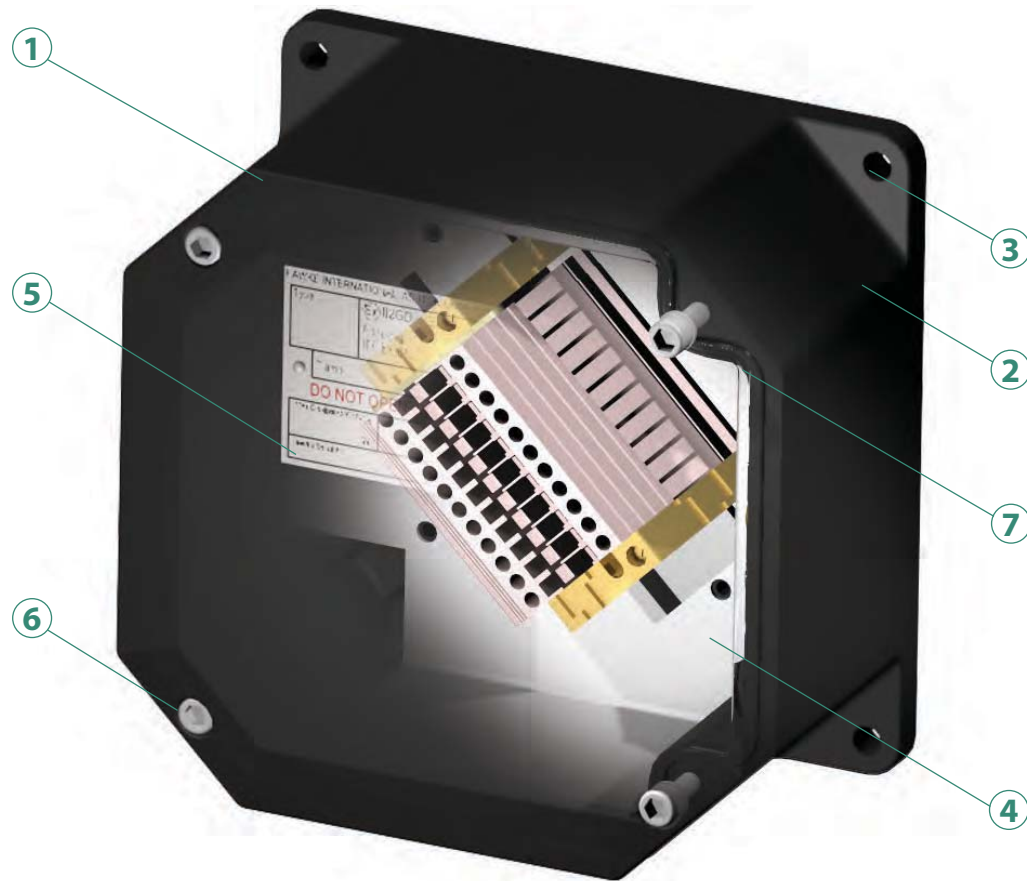
| Selection Table |                 |                             |                             |                       |                       |                 |                               |                   |
|-----------------|-----------------|-----------------------------|-----------------------------|-----------------------|-----------------------|-----------------|-------------------------------|-------------------|
|                 | Max M20 entries | Max number of 2.5 terminals | Max terminal conductor size | Min operating temp °C | Max operating temp °C | Max voltage (V) | Available with viewing window | Standard Material |
| PL612           | 8               | 12*                         | 10mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL712           | 8               | 12*                         | 10mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL615           | 8               | 14                          | 16mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL722           | 14              | 35                          | 10mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL620           | 24              | 24                          | 70mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL626           | 24              | 38                          | 35mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| PL630           | 40              | 76                          | 70mm <sup>2</sup>           | -60                   | +75                   | 690             | NO                            | GRP               |
| EJB 1           | 16              | 12                          | 10mm <sup>2</sup>           | -60                   | +80                   | 690             | NO                            | 316L              |
| EJB 2           | 22              | 18                          | 16mm <sup>2</sup>           | -60                   | +80                   | 690             | NO                            | 316L              |
| S1              | 12              | 30                          | 35mm <sup>2</sup>           | -60                   | +80                   | 690             | NO                            | 316L              |
| S2              | 28              | 78                          | 70mm <sup>2</sup>           | -60                   | +80                   | 1100            | YES                           | 316L              |
| S2L             | 34              | 117                         | 70mm <sup>2</sup>           | -60                   | +80                   | 1100            | YES                           | 316L              |
| S3              | 48              | 126                         | 70mm <sup>2</sup>           | -60                   | +80                   | 1100            | YES                           | 316L              |
| S4              | 54              | 189                         | 150mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S4L             | 78              | 252                         | 150mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S5              | 90              | 249                         | 150mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S6              | 150             | 416                         | 300mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S7              | 182             | 640                         | 300mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S8              | 200             | 912                         | 300mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| S9              | 228             | 1232                        | 300mm <sup>2</sup>          | -60                   | +80                   | 1100            | YES                           | 316L              |
| Eze22           | 20              | 76*                         | 50mm <sup>2</sup>           | -40                   | +80                   | 690             | NO                            | 316L              |
| Eze42           | 40              | 114*                        | 50mm <sup>2</sup>           | -40                   | +80                   | 690             | NO                            | 316L              |
| Eze62           | 60              | 190*                        | 50mm                        | -40                   | +80                   | 690             | NO                            | 316L              |

\*WDU 2.5N

Information contained above is for quick reference only - see individual datasheets for specific information

# PL-Range GRP Enclosures





### 1 The Ultimate in Robust GRP Construction

Designed to withstand impact resistance up to 20Nm for PL6 series (7Nm for PL7 series). GRP construction provides a high degree of resistance to corrosive atmospheres.

### 2 Anti-Static Properties

Removes the risk of ignition sources through static induced sparking resistivity. Insulation resistance less than 1GΩ.

### 3 External Mounting Feet

Eliminates the need to remove the lid when mounting the enclosure on the wall.

### 4 Earth Continuity Plate

Optional.

### 5 Stainless Steel Rating Label

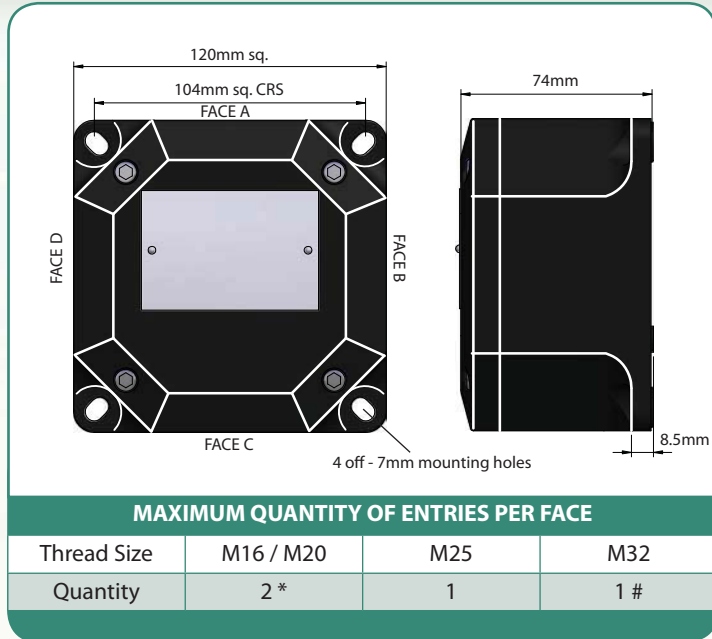
Highly durable and corrosion resistant.

### 6 Corrosion Resistant Stainless Steel Lid Fixing Screws with Nylon Retaining Washers

Prevents loss of screws during assembly and maintenance.

### 7 One Piece Durable Captive Moulded Silicone Gasket

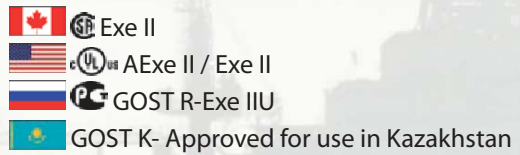
DTS01 deluge protection. Provides Ingress Protection to IP66 and IP67. Optimum performance at low and high temperature extremes.



\* Shroud not possible with Earth Continuity Plate option.  
 # Not possible with an Earth Continuity Plate.  
 Optional: Earth Continuity Plate

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- PL612 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL612 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 273.
- Alternative certification options available:



For full technical specification, see Page 16

| TERMINAL CAPACITY |                                   |                                  |            |                                |                                |  |      |     |
|-------------------|-----------------------------------|----------------------------------|------------|--------------------------------|--------------------------------|--|------|-----|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |                                  | Max. Volts | Max. Physical Terminal Content |                                | Reduced Terminal Content at Max. Terminal Amps |      |     |
|                   | Min.                              | Max.                             |            | Terminal Qty.                  | Amps                           | Terminal Qty.                                  | Amps |     |
| WDU 2.5N          | 0.5                               | 2.5                              | 420        | 12                             | 16                             | 10   | 17   |     |
| WDU 2.5           | 0.5                               | 2.5                              | 550        | 10                             | 17                             | 10   | 17   |     |
| WDU 4             | 0.5                               | 4                                | 690        | 10                             | 21                             | 10   | 22   |     |
| WDU 6             | 0.5                               | 6                                | 550        | 7                              | 29                             | 7  | 29   |     |
| WDU 10            | 1.5                               | 10                               | 550        | 6                              | 39                             | 5  | 40   |     |
| BK 6              | 1                                 | 4                                | 275        | 1                              | 20                             | N/A  | N/A  |     |
| MK 6/6            | 1                                 | 6                                | 420        | 1                              | 26                             | N/A  | N/A  |     |
| HTB 6             | 0.5                               | Max. per Pillar                  | 550        | 1                              | Conductor Size mm <sup>2</sup> | Max. Amps per Pillar                           | N/A  | N/A |
|                   |                                   | 2 x 10mm <sup>2</sup>            |            |                                | 0.5                            | 1  |      |     |
|                   |                                   | 3 x 6mm <sup>2</sup>             |            |                                | 0.75                           | 1  |      |     |
|                   |                                   | 4 x 4mm <sup>2</sup>             |            |                                | 1                              | 8  |      |     |
|                   |                                   | 4 x 0.5mm <sup>2</sup> Min.      |            |                                | 1.5                            | 10   |      |     |
|                   |                                   | See certificate for more options |            |                                | 2.5                            | 15   |      |     |
|                   |                                   |                                  |            |                                | 4                              | 21   |      |     |
|                   | 6                                 | 26                               |            |                                |                                |  |      |     |
|                   | 10                                | 37                               |            |                                |                                |  |      |     |

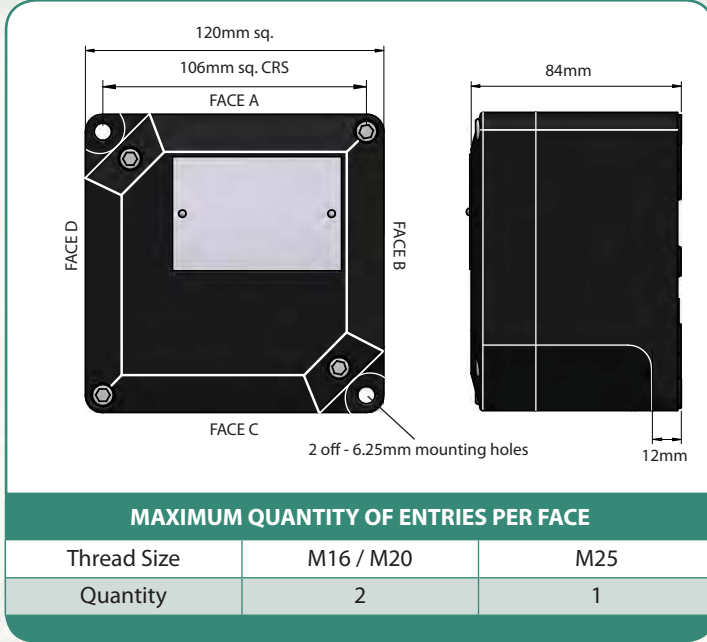
Note: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
 An earth terminal equal to that of the largest power terminal will be fitted.  
 The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: PL712

## Glass Reinforced Polyester

Increased Safety Exe Dual Certified ATEX / IECEx

# PL Series GRP Enclosures



### Technical Data

- Increased Safety II 2 GD Exe IIC Gb, Extb IIIC Db.
- PL712 Certificate No's: Baseefa08ATEX0272X and IECEx BAS 08.0091X.
- ZPL712 Certificate No's: Baseefa08ATEX0271U and IECEx BAS 08.0090U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 285.
- Alternative certification options available:



AExe II / Exe II



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**For full technical specification, see Page 16**

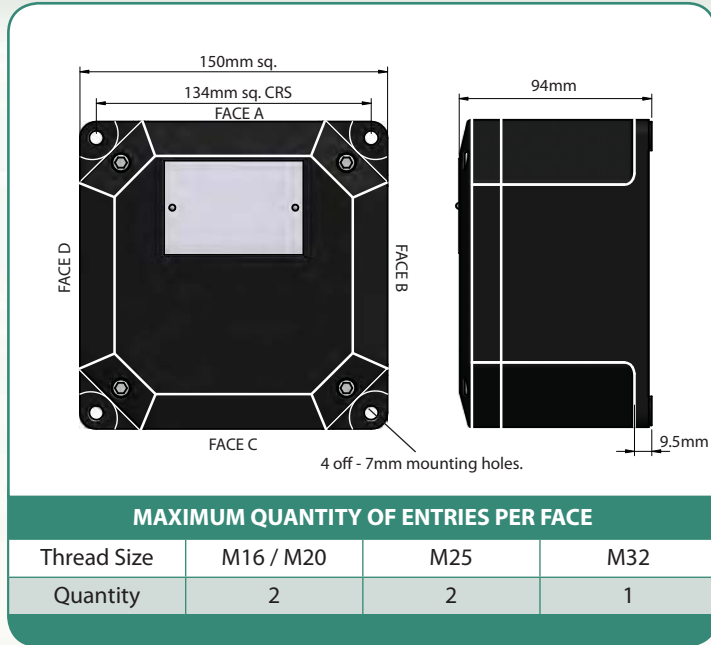
Optional: Earth Continuity Plate.

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |  | Max. Volts | Max. Physical Terminal Content |  | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|--|------------|--------------------------------|--|--|------|
|               | Min.                              | Max.   |            | Terminal Qty.                  | Amps   | Terminal Qty.                                  | Amps |
| WDU 2.5N      | 0.5                               | 2.5  | 420        | 12                             | 14   | 8  | 17   |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 10                             | 15   | 8  | 17   |
| WDU 4         | 0.5                               | 4  | 690        | 10                             | 18   | 7  | 22   |
| WDU 6         | 0.5                               | 6  | 550        | 7                              | 25   | 5  | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 6                              | 34   | 4  | 40   |
| BK 6          | 1                                 | 4  | 275        | 1                              | 20   | N/A  | N/A  |
| MK 6/6        | 1                                 | 6  | 420        | 1                              | 26   | N/A  | N/A  |
|               |                                   | Max. per Pillar  |            |                                | Conductor Size mm <sup>2</sup>                 | Max. Amps per Pillar                           |      |
| HTB 6         | 0.5                               | 2 x 10mm <sup>2</sup><br>3 x 6mm <sup>2</sup><br>4 x 4mm <sup>2</sup><br>4 x 0.5mm <sup>2</sup> Min.<br>See certificate for more options | 550        | 1                              | 0.5<br>0.75<br>1<br>1.5<br>2.5<br>4<br>6<br>10 | 1<br>1<br>8<br>10<br>15<br>21<br>26<br>37      | N/A  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
 An earth terminal equal to that of the largest power terminal will be fitted.  
 The terminals listed are restricted to a minimum operating temperature of -50°C.





Optional: Earth Continuity Plate.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- PL615 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL615 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 273.
- Alternative certification options available:



For full technical specification, see Page 16

| TERMINAL CAPACITY |                                   |                                  |            |                                |                                |  |      |     |
|-------------------|-----------------------------------|----------------------------------|------------|--------------------------------|--------------------------------|--|------|-----|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |                                  | Max. Volts | Max. Physical Terminal Content |                                | Reduced Terminal Content at Max. Terminal Amps |      |     |
|                   | Min.                              | Max.                             |            | Terminal Qty.                  | Amps                           | Terminal Qty.                                  | Amps |     |
| WDU 2.5           | 0.5                               | 2.5                              | 550        | 14                             | 16                             | 13   | 17   |     |
| WDU 4             | 0.5                               | 4                                | 690        | 12                             | 21                             | 11   | 22   |     |
| WDU 6             | 0.5                               | 6                                | 550        | 9                              | 29                             | 9  | 29   |     |
| WDU 10            | 1.5                               | 10                               | 550        | 7                              | 40                             | 7  | 40   |     |
| WDU 16            | 1.5                               | 16                               | 690        | 6                              | 53                             | 6  | 53   |     |
| HTB 6             | 0.5                               | Max. per Pillar                  | 550        | 1                              | Conductor Size mm <sup>2</sup> | Max. Amps per Pillar                           | N/A  | N/A |
|                   |                                   | 2 x 10mm <sup>2</sup>            |            |                                | 0.5                            | 1  |      |     |
|                   |                                   | 3 x 6mm <sup>2</sup>             |            |                                | 0.75                           | 1  |      |     |
|                   |                                   | 4 x 4mm <sup>2</sup>             |            |                                | 1                              | 8  |      |     |
|                   |                                   | 4 x 0.5mm <sup>2</sup> Min.      |            |                                | 1.5                            | 10   |      |     |
|                   |                                   | See certificate for more options |            |                                | 2.5                            | 15   |      |     |
|                   |                                   |                                  |            |                                | 4                              | 21   |      |     |
|                   | 6                                 | 26                               |            |                                |                                |  |      |     |
|                   | 10                                | 37                               |            |                                |                                |  |      |     |

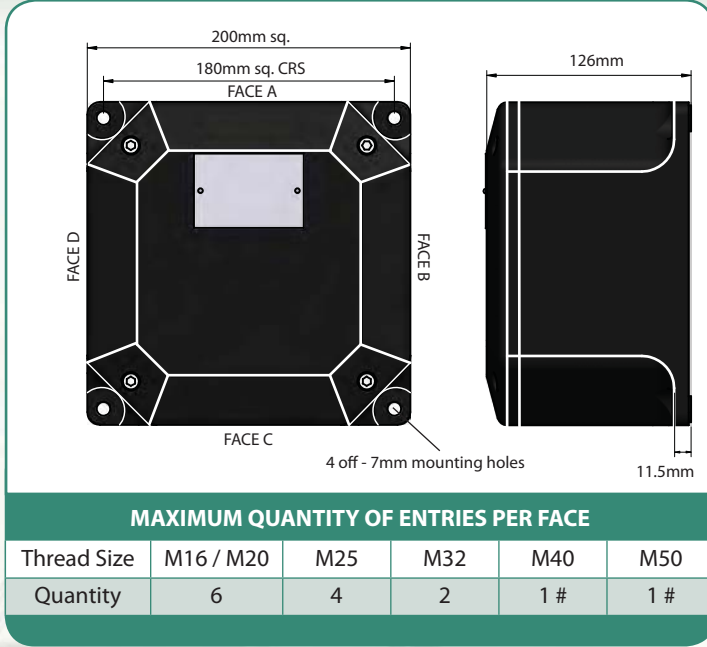
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
An earth terminal equal to that of the largest power terminal will be fitted.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: PL620

## Glass Reinforced Polyester

Increased Safety Exe Dual Certified ATEX / IECEx

# PL Series GRP Enclosures



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size | M16 / M20 | M25 | M32 | M40 | M50 |
|-------------|-----------|-----|-----|-----|-----|
| Quantity    | 6         | 4   | 2   | 1 # | 1 # |

# Not possible with an Earth Continuity Plate.  
Optional: Earth Continuity Plate.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- PL620 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL620 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 273.
- Alternative certification options available:



Exe II



UL AExe II / Exe II



GOST R-Exe IIU

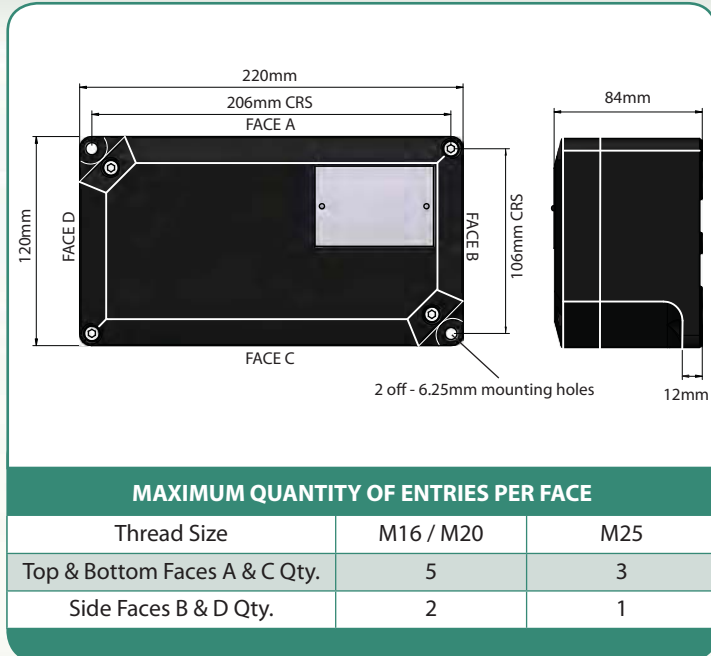


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**For full technical specification, see Page 16**

| TERMINAL CAPACITY |                                   |      |            |                                |      |  |      |
|-------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|                   | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5           | 0.5                               | 2.5  | 550        | 24                             | 15   | 18   | 17   |
| WDU 4             | 0.5                               | 4    | 690        | 20                             | 20   | 16   | 22   |
| WDU 6             | 0.5                               | 6    | 550        | 15                             | 27   | 12   | 29   |
| WDU 10            | 1.5                               | 10   | 550        | 12                             | 38   | 10   | 40   |
| WDU 16            | 1.5                               | 16   | 690        | 9                              | 53   | 9  | 53   |
| WDU 35            | 2.5                               | 35   | 690        | 6                              | 87   | 6  | 87   |
| WDU 50N           | 6                                 | 50   | 690        | 5                              | 88   | 5  | 88   |
| WDU 70            | 10                                | 70   | 690        | 4                              | 134  | 4  | 134  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
An earth terminal equal to that of the largest power terminal will be fitted.  
The terminals listed are restricted to a minimum operating temperature of -50°C.



Optional: Earth Continuity Plate.

### Technical Data

- Increased Safety Ex II 2 GD Exe IIC Gb, Extb IIIC Db
- PL712 Certificate No's: Baseefa08ATEX0272X and IECEx BAS 08.0091X.
- ZPL712 Certificate No's: Baseefa08ATEX0271U and IECEx BAS 08.0090U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 285.
- Alternative certification options available:



UL AExe II / Exe II



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| TERMINAL CAPACITY |                                   |      |            |                                |      |  |      |
|-------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|                   | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5           | 0.5                               | 2.5  | 550        | 35                             | 8    | 9  | 17   |
| WDU 4             | 0.5                               | 4    | 690        | 29                             | 11   | 8  | 22   |
| WDU 6             | 0.5                               | 6    | 550        | 22                             | 15   | 6  | 29   |
| WDU 10            | 1.5                               | 10   | 550        | 17                             | 22   | 5  | 40   |

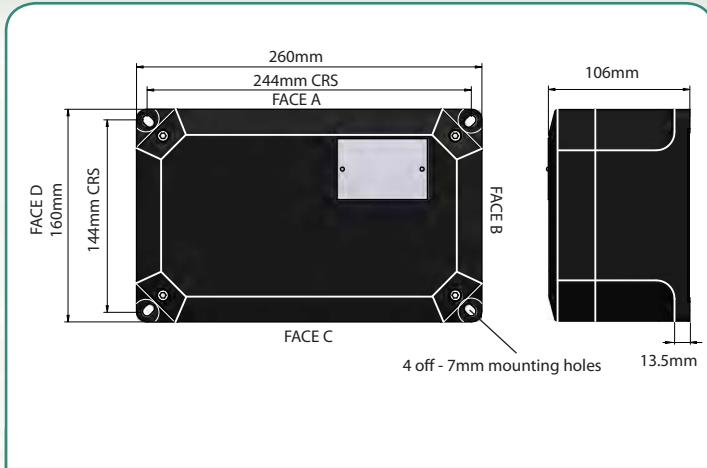
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
 An earth terminal equal to that of the largest power terminal will be fitted.  
 The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: PL626

## Glass Reinforced Polyester

Increased Safety Exe Dual Certified ATEX / IECEx

# PL Series GRP Enclosures



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size | M16 / M20 | M25 | M32 |
|-------------|-----------|-----|-----|
| Face A / C  | 9         | 4   | 3   |
| Face B / D  | 3         | 2   | 1   |

Optional: Earth Continuity Plate.

### Technical Data

- Increased Safety Ⓜ II 2 GD Exe II ExtD.
- PL626 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL626 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 273.
- Alternative certification options available:



UL AExe II / Exe II



GOST R-Exe IIU



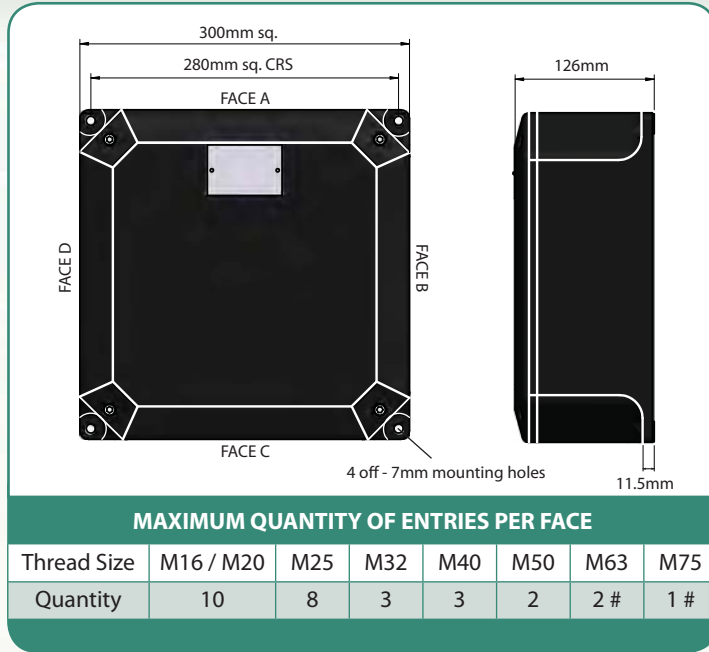
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**For full technical specification, see Page 16**

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 38                             | 11   | 15   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 32                             | 15   | 14   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 24                             | 20   | 11   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 19                             | 28   | 9  | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 16                             | 39   | 8  | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 12                             | 62   | 6  | 87   |

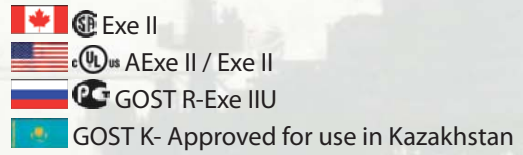
**Notes:** For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
 An earth terminal equal to that of the largest power terminal will be fitted.  
 The terminals listed are restricted to a minimum operating temperature of -50°C.



# Not possible with an Earth Continuity Plate.  
Optional: Earth Continuity Plate.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- PL630 Certificate No's: Baseefa06ATEX0117X and IECEx BAS 06.0028X.
- ZPL630 Certificate No's: Baseefa06ATEX0116U and IECEx BAS 06.0027U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 and IP67 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +75°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 273.
- Alternative certification options available:



For full technical specification, see Page 16

| TERMINAL CAPACITY |                                   |      |            |                                |      |  |      |
|-------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|                   | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5           | 0.5                               | 2.5  | 550        | 76                             | 9    | 23   | 17   |
| WDU 4             | 0.5                               | 4    | 690        | 64                             | 12   | 21   | 22   |
| WDU 6             | 0.5                               | 6    | 550        | 48                             | 17   | 17   | 29   |
| WDU 10            | 1.5                               | 10   | 550        | 36                             | 25   | 14   | 40   |
| WDU 16            | 1.5                               | 16   | 690        | 30                             | 34   | 12   | 53   |
| WDU 35            | 2.5                               | 35   | 690        | 22                             | 55   | 9  | 87   |
| WDU 50N           | 6                                 | 50   | 690        | 11                             | 88   | 11   | 88   |
| WDU 70N           | 10                                | 70   | 690        | 11                             | 108  | 7  | 134  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
An earth terminal equal to that of the largest power terminal will be fitted.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

- To ensure that the maximum temperature as permitted by certification is not exceeded, the Dissipated Wattage Factor Formula is used:  $W = N \times F \times I^2$  (See Page 43 for enclosure wattage).
- It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferrule.
- Linked and mixed terminal arrangements other than those specified in the data tables are available, but the voltage and current figures may be affected to ensure the maximum certified wattage factor is not exceeded. Please contact Hawke Technical Sales for more information.
- When connecting a terminal with a conductor that is less than maximum size permitted for that terminal type, the maximum amps per pole must be reduced to suit i.e. an WDU10 (10mm<sup>2</sup>) terminal fitted with a 4mm<sup>2</sup> conductor will have the current rating reduced to that of the current rating permitted through the WDU4 (4mm<sup>2</sup>) terminal.
- For Intrinsically Safe Applications, Exe power terminals can be supplied in blue on request. (Note: the enclosure will remain Exe certified).
- An earth terminal must be fitted inside the enclosure. (Note: Power terminals may be used as 'clean earths').
- The enclosure has tapped metric entry threads as standard. Tapered threads are not permitted in plastic enclosures due to risk of stress cracking.
- The customer may drill and tap entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the certification, Contact Hawke Technical Sales for more information.
- When mixed entries are required on a face, contact Hawke Technical Sales for more information.
- Entries into the enclosure must be via a suitable, approved entry device.
- All unused entry holes must be fitted with a stopping plug as listed on the enclosure certificate.

### Specification For PL6 & PL7 Series

|                                |  |
|--------------------------------|--|
| Certification :                | <b>PL6</b> - Ⓢ II 2 GD Exe II ExtD.<br><b>PL7</b> - Ⓢ II2 GD Exe IIC Gb, Extb IIIC, Db.  |
| Zones of Use :                 | Zone 1, Zone 2, Zone 21 & Zone 22.   |
| Temperature Class & Ambients : | T6 40°C as standard. Optional T5 with ambients up to 65°C.   |
| Operating Temperature Range :  | -60°C to +75°C.  |
| PL6 - Degree of Protection :   | IP66, IP67 and Deluge proof to DTS01.  |
| PL7 - Degree of Protection :   | IP66 and Deluge proof to DTS01.  |
| Material :                     | Glass Reinforced Polyester.<br>Flame Retardant to (IEC92.1 clause 2.38).   |
| Finish :                       | Natural Black.   |
| Impact Resistance :            | <b>PL6</b> - Up to 20Nm.<br><b>PL7</b> - Up to 7Nm.  |
| Weatherproofing :              | By captive moulded clear silicone gasket.  |
| Certification Label :          | Stainless Steel or optional certified self adhesive foil.  |
| Lid Fixing Screws :            | Stainless Steel (complete with nylon retaining washer).  |
| Additional Options :           | Breather/Drain devices. Internal/external earth stud. Epoxy paint finish for colour coding. EMI/RFI coating for EMC requirements.                    |
| Additional Labels :            | Stainless Steel or laminated plastic (traffolyte) for external use only or optional (certified) self adhesive foil for external and/or internal use. |

### Earth Continuity

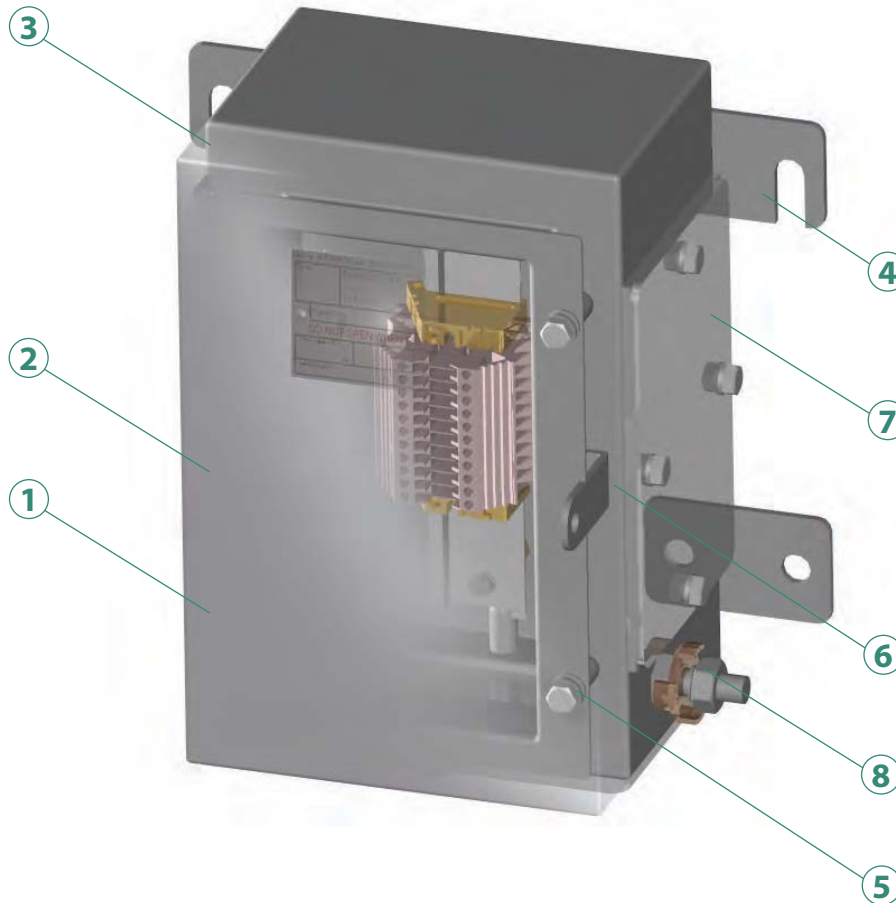
These enclosures may be fitted with an Earth Continuity Plate in plated mild steel as standard or optional brass when requested by the customer.

*Note: A locknut is required on cable glands and metal stopping plugs to ensure earth continuity through the plate.*

# S-Series

## Stainless Steel Enclosures





### 1 Robust Stainless Steel Construction

Enclosure material thickness ranges between 1.2 – 2.0mm with 2 – 3mm thick gland plates. Durable stainless steel rating label.

### 2 Electropolished Surface Finish

Provides high levels of corrosion resistance.

### 3 Softer Finished Rounded Edges

Safer manual handling of enclosure and gland plates.

### 4 Rigid Slotted External Mounting Feet

Allows enclosure to be hung onto the structure.

### 5 Stainless Steel Lid Fixing Screws with Nylon Retaining Washers

Prevents loss of screws during assembly and maintenance.

### 6 Superior One Piece Silicone Sponge Gaskets

DTS01 deluge protection.

Provides Ingress Protection to IP66.

Durable with excellent UV stability and chemical resistance. – EMC mesh option.

### 7 Extensive Range of Enclosure Sizes Available

Eleven standard enclosure sizes available.

Sizes range from 153 x 233 x 130 to 740 x 1000 x 210.

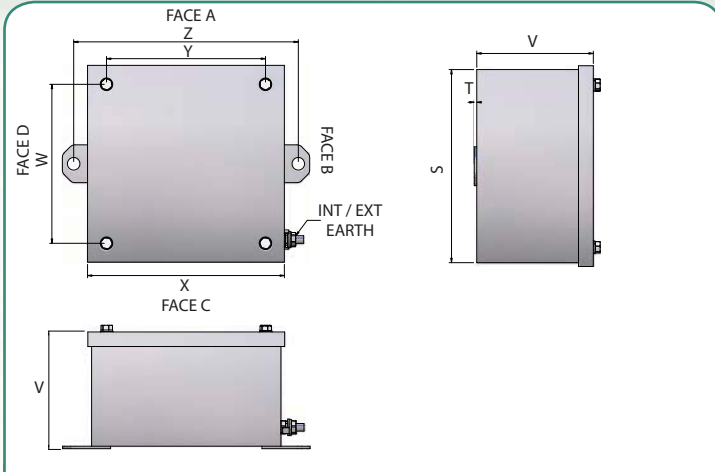
Gland plates offered on two sides (Faces B & D)

and bottom (Face C) of each enclosure. Alternatively,

boxes are available with gland plates on Face C only.

### 8 Internal/External Earth Stud Fitted





### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size | M16 |     | M20 |     | M25 |     | M32 |     | M40 |     | M50 |     |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             | EJB | EJB | EJB | EJB | EJB | EJB | EJB | EJB | EJB | EJB | EJB | EJB |
| Box Type    | 1   | 2   | 1   | 2   | 1   | 2   | 1   | 2   | 1   | 2   | 1   | 2   |
| Face A / C  | 6   | 10  | 6   | 8   | 3   | 3   | 2   | 3   | 2   | 2   | 0   | 1   |
| Face B      | 4   | 8   | 4   | 6   | 2   | 2   | 1   | 2   | 1   | 2   | 0   | 1   |
| Face D      | 6   | 10  | 6   | 8   | 3   | 3   | 2   | 3   | 2   | 2   | 0   | 1   |

### Technical Data

- Increased Safety Ⓢ II 2 GD Exe II C Gb Extb, III C Db.
- EJB 1 Certificate No's: Baseefa 08ATEX 0208X and IECEx BAS08.0065X.
- ZEJB 1 Certificate No's: Baseefa 08ATEX0207U and IECEx BAS08.0064U
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI – Pending.

For full technical specification, see Page 32

| Dimension | EJB1      | EJB2      |
|-----------|-----------|-----------|
|           | Size (mm) | Size (mm) |
| S         | 120       | 150       |
| T         | 2         | 2         |
| V         | 80.5      | 90.5      |
| W         | 96        | 126       |
| X         | 126       | 156       |
| Y         | 96        | 126       |
| Z         | 148       | 178       |

### TERMINAL CAPACITY

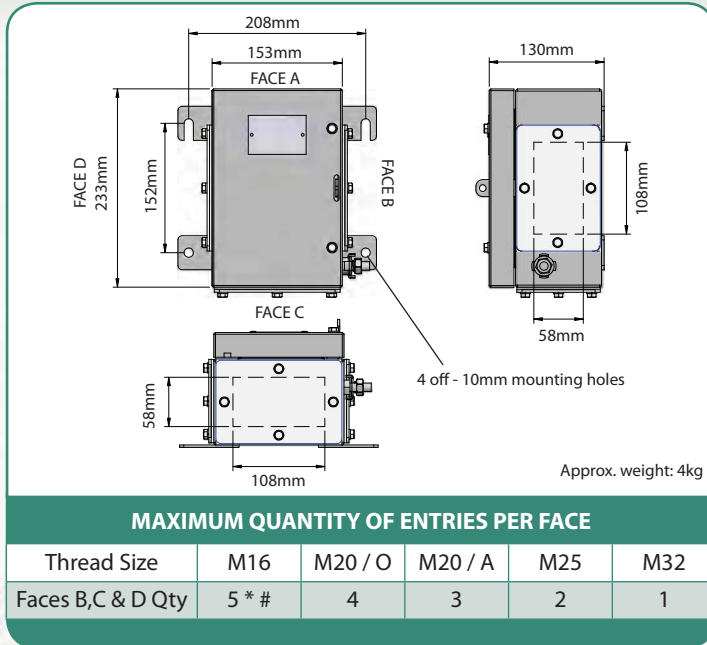
| Terminal Type | Conductor Size (mm <sup>2</sup> ) |   | Max. Volts | Max. Physical Terminal Content |       |                                |                      | Reduced Terminal Content at Max. Terminal Amps |                      |       |       |
|---------------|-----------------------------------|---|------------|--------------------------------|-------|--------------------------------|----------------------|--|----------------------|-------|-------|
|               | Min.                              | Max.  |            | Terminal Qty.                  |       | Amps                           |                      | Terminal Qty.                                  |                      | Amps  |       |
|               |                                   |   |            | EJB 1                          | EJB 2 | EJB 1                          | EJB 2                | EJB 1  | EJB 2                | EJB 1 | EJB 2 |
| WDU 2.5N      | 0.5                               | 2.5   | 420        | 12                             | 18    | 15                             | 13                   | 9  | 11                   | 17    | 17    |
| WDU 2.5       | 0.5                               | 2.5   | 550        | 12                             | 18    | 15                             | 13                   | 9  | 11                   | 17    | 17    |
| WDU 4         | 0.5                               | 4   | 690        | 10                             | 15    | 20                             | 18                   | 8  | 10                   | 22    | 22    |
| WDU 6         | 0.5                               | 6   | 550        | 7                              | 11    | 28                             | 24                   | 6  | 8                    | 29    | 29    |
| WDU 10        | 1.5                               | 10  | 550        | 6                              | 9     | 38                             | 34                   | 5  | 6                    | 40    | 40    |
| WDU16         | 1.5                               | 16  | 550        | -                              | 7     | -                              | 47                   | -  | -                    | -     | -     |
| BK 6          | 1                                 | 4   | 275        | 1                              | -     | 21                             | -                    | -  | -                    | -     | -     |
| MK 6/6        | 1                                 | 6   | 420        | 1                              | -     | 26                             | -                    | -  | -                    | -     | -     |
|               |                                   | Max. per Pillar   |            |                                |       | Conductor Size mm <sup>2</sup> | Max. Amps per Pillar | Conductor Size mm <sup>2</sup>                 | Max. Amps per Pillar |       |       |
| HTB 6         | 0.5                               | 2 x 10mm <sup>2</sup><br>3 x 6mm <sup>2</sup><br>4 x 4mm <sup>2</sup><br>4 x 0.5mm <sup>2</sup> (Min)<br>See certificate for more options | 550        | 1                              | 1     | 0.5                            | 1                    | 0.5  | 1                    | N/A   | 1     |
|               |                                   |   |            |                                |       | 0.75                           | 1                    | 0.75   | 1                    |       |       |
|               |                                   |   |            |                                |       | 1                              | 8                    | 1  | 8                    |       |       |
|               |                                   |   |            |                                |       | 1.5                            | 10                   | 1.5  | 10                   |       |       |
|               |                                   |   |            |                                |       | 2.5                            | 15                   | 2.5  | 15                   |       |       |
|               |                                   |   |            |                                |       | 4                              | 21                   | 4  | 21                   |       |       |
|               |                                   |   |            |                                |       | 6                              | 26                   | 6  | 26                   |       |       |
|               |                                   |   |            |                                |       | 10                             | 37                   | 10   | 37                   |       |       |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44 The box is supplied with an integral internal / external earth stud assembly. The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 1 (S1) Stainless Steel

## S Series Enclosures

Increased Safety Exe Dual Certified ATEX / IECEx



### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- Size 1 (S1) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 1 (ZS1) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- 210mm deep option available.
- Alternative certification options available:



Exe II



AExe II / Exe II



GOST R-Exe IIU



GOST K- Approved for use in Kazakhstan

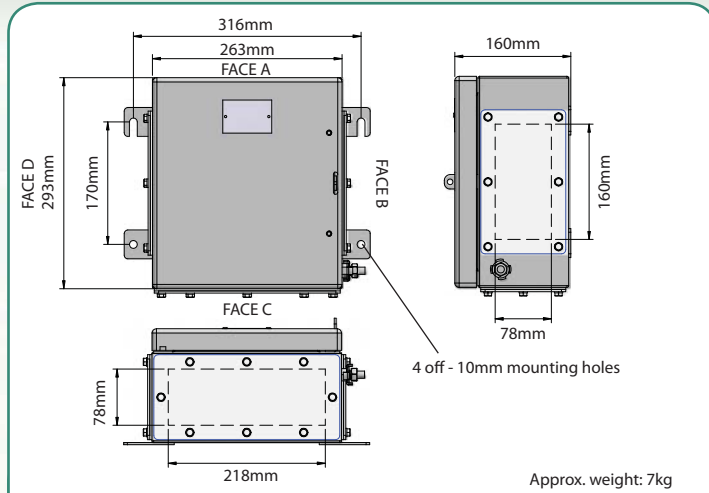
For full technical specification, see Page 32

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 30                             | 13   | 18   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 25                             | 17   | 16   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 19                             | 24   | 13   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 15                             | 34   | 11   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 13                             | 45   | 9  | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 9                              | 75   | 6  | 87   |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

Increased Safety Exe Dual Certified ATEX / IECEx



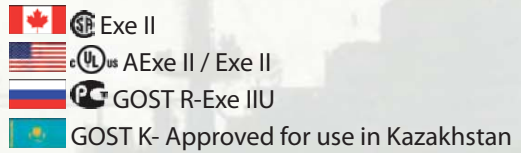
### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16  | M20 / O | M20 / A | M25 | M32 | M40 | M50 |
|-----------------------|------|---------|---------|-----|-----|-----|-----|
| Bottom Face C Qty.    | 17 # | 12      | 12      | 7   | 4   | 3   | 2 * |
| Side Faces B & D Qty. | 11 # | 8       | 8       | 5   | 3   | 2   | 2   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.  
\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- Size 2 (S2) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 2 (ZS2) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- 210mm deep option available.
- Alternative certification options available:



**For full technical specification, see Page 32**

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 78                             | 8    | 17   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 50                             | 12   | 16   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 42                             | 16   | 13   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 36                             | 22   | 11   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 28                             | 31   | 10   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 20                             | 52   | 7  | 87   |
| WDU 50N       | 6                                 | 50   | 690        | 16                             | 69   | 9  | 88   |
| WDU 70N       | 10                                | 70   | 690        | 8                              | 113  | 5  | 134  |
| WFF 35        | 2.5                               | 35   | 1100       | 6                              | 76   | 6  | 76   |

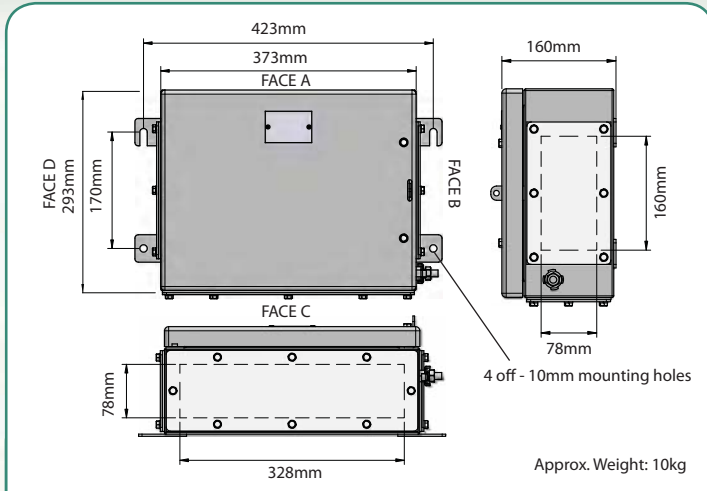
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 2L (S2L) Stainless Steel

## S Series Enclosures

22

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16  | M20 / O | M20 / A | M25 | M32 | M40 | M50 |
|-----------------------|------|---------|---------|-----|-----|-----|-----|
| Bottom Face C Qty.    | 26 # | 18      | 18      | 11  | 6   | 5   | 4 * |
| Side Faces B & D Qty. | 11 # | 8       | 8       | 5   | 3   | 2   | 2   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.

\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- Size 2 (S2L) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 2 (ZS2L) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- 210mm deep option available.
- Alternative certification options available:



Exe II



AExe II / Exe II



GOST R-Exe IIU



GOST K- Approved for use in Kazakhstan

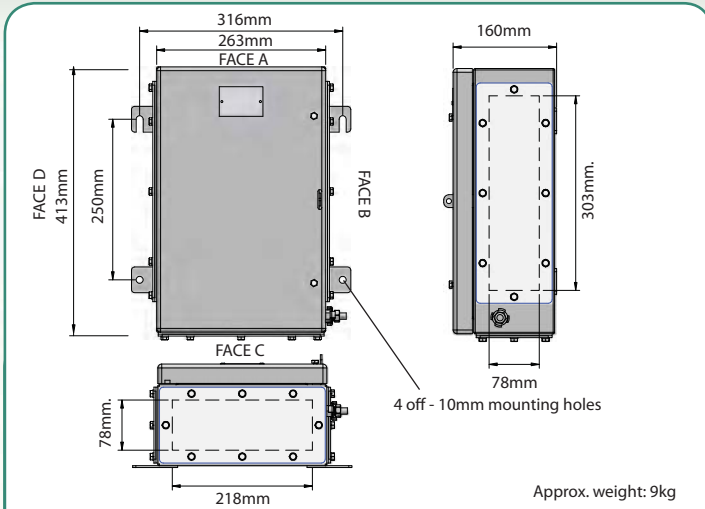
**For full technical specification, see Page 32**

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 117                            | 6    | 15   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 75                             | 9    | 14   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 63                             | 12   | 11   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 54                             | 17   | 10   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 42                             | 24   | 8  | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 30                             | 40   | 6  | 87   |
| WDU 50N       | 6                                 | 50   | 690        | 24                             | 53   | 8  | 88   |
| WDU 70N       | 10                                | 70   | 690        | 16                             | 16   | 5  | 134  |
| WFF 35        | 2.5                               | 35   | 1100       | 6                              | 76   | 6  | 76   |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

Increased Safety Exe Dual Certified ATEX / IECEx



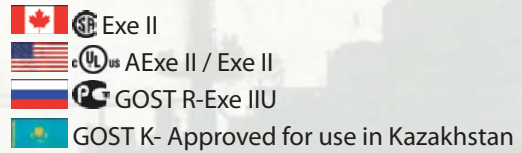
### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16  | M20 / O | M20 / A | M25 | M32 | M40 | M50 |
|-----------------------|------|---------|---------|-----|-----|-----|-----|
| Bottom Face C Qty.    | 17 # | 12      | 12      | 7   | 4   | 3   | 2   |
| Side Faces B & D Qty. | 23 # | 16      | 16      | 9   | 5   | 4   | 3   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD A21.
- Size 3 (S3) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 3 (ZS3) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- 210mm deep option available.
- Alternative certification options available:



For full technical specification, see Page32

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 126                            | 6    | 19   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 94                             | 9    | 17   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 72                             | 13   | 15   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 56                             | 19   | 12   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 48                             | 25   | 11   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 36                             | 41   | 8  | 87   |
| WDU 50        | 6                                 | 50   | 690        | 28                             | 56   | 11   | 88   |
| WDU 70N       | 10                                | 70   | 690        | 14                             | 90   | 6  | 134  |
| WFF 35        | 2.5                               | 35   | 1100       | 11                             | 76   | 11   | 76   |

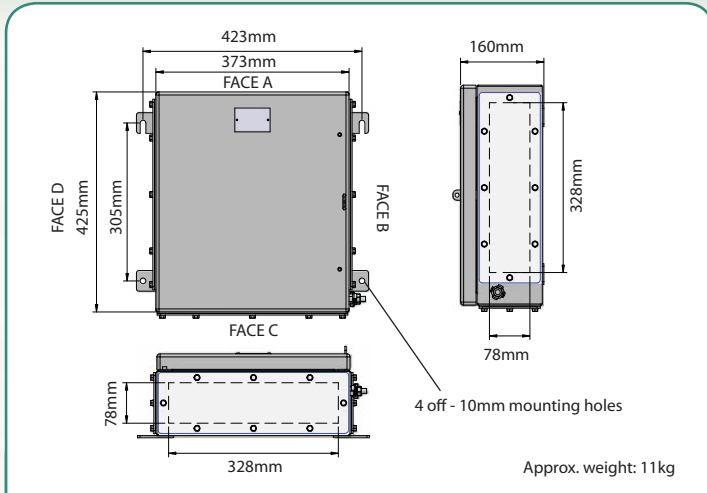
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 4 (S4) Stainless Steel

## S Series Enclosures

24

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

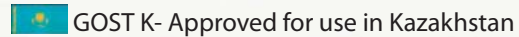
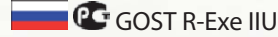
| Thread Size         | M16  | M20 / O | M20 / A | M25 | M32 | M40 | M50 |
|---------------------|------|---------|---------|-----|-----|-----|-----|
| Faces B, C & D Qty. | 26 # | 18      | 18      | 11  | 6   | 5   | 4 * |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.

\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- Size 4 (S4) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 4 (ZS4) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- 210mm deep option available.
- Alternative certification options available:



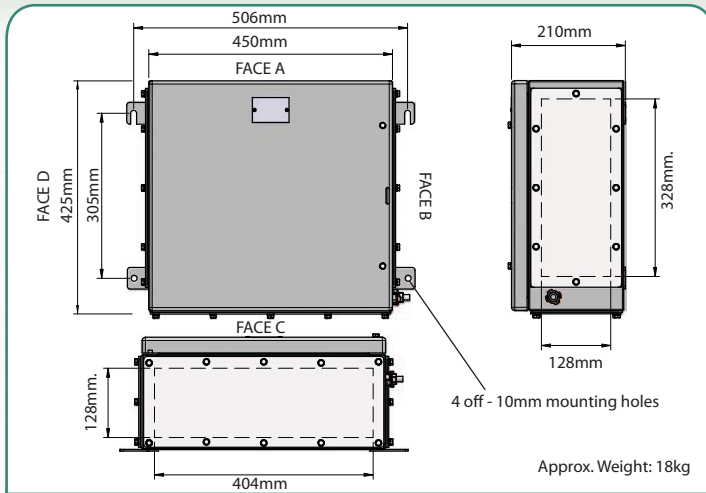
For full technical specification, see Page 32

### TERMINAL CAPACITY

| Terminal Type               | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|-----------------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|                             | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5                     | 0.5                               | 2.5  | 550        | 189                            | 5    | 22   | 17   |
| WDU 4                       | 0.5                               | 4    | 690        | 141                            | 8    | 20   | 22   |
| WDU 6                       | 0.5                               | 6    | 550        | 108                            | 11   | 17   | 29   |
| WDU 10                      | 1.5                               | 10   | 550        | 84                             | 16   | 14   | 40   |
| WDU 16                      | 1.5                               | 16   | 690        | 72                             | 22   | 13   | 53   |
| WDU 35                      | 2.5                               | 35   | 690        | 54                             | 36   | 9  | 87   |
| WDU 50                      | 6                                 | 50   | 690        | 42                             | 49   | 13   | 88   |
| WDU 70N                     | 10                                | 70   | 690        | 30                             | 67   | 7  | 134  |
| WDU <b>70</b> / 95          | 16                                | 70   | 690        | 11                             | 94   | 6  | 134  |
| WDU <b>70</b> / <b>95</b>   | 16                                | 95   | 690        | 11                             | 104  | 8  | 134  |
| WDU <b>120</b> / 150        | 35                                | 120  | 690        | 9                              | 144  | 7  | 162  |
| WDU <b>120</b> / <b>150</b> | 35                                | 150  | 690        | 9                              | 153  | 7  | 162  |
| WFF 35                      | 2.5                               | 35   | 1100       | 11                             | 76   | 11   | 76   |
| WFF 70                      | 2.5                               | 70   | 1100       | 9                              | 116  | 9  | 116  |
| WFF 120                     | 6                                 | 120  | 1100       | 7                              | 162  | 7  | 162  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

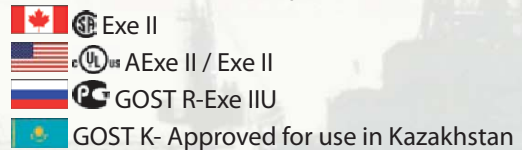
| Thread Size           | M16  | M20 / O | M20 / A | M25 | M32 | M40 | M50 | M63 | M75 |
|-----------------------|------|---------|---------|-----|-----|-----|-----|-----|-----|
| Bottom Face C Qty.    | 44 # | 42      | 32      | 26  | 14  | 11  | 6   | 4   | 3   |
| Side Faces B & D Qty. | 26 # | 18      | 18      | 11  | 6   | 5   | 4 * | 2   | 1   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.  
\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD.
- Size 4 (S4L) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 4 (ZS4L) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.

• Alternative certification options available:



**For full technical specification, see Page 32**

### TERMINAL CAPACITY

| Terminal Type               | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|-----------------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|                             | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5                     | 0.5                               | 2.5  | 550        | 252                            | 4    | 19   | 17   |
| WDU 4                       | 0.5                               | 4    | 690        | 188                            | 6    | 18   | 22   |
| WDU 6                       | 0.5                               | 6    | 550        | 144                            | 9    | 15   | 29   |
| WDU 10                      | 1.5                               | 10   | 550        | 112                            | 13   | 13   | 40   |
| WDU 16                      | 1.5                               | 16   | 690        | 96                             | 18   | 11   | 53   |
| WDU 35                      | 2.5                               | 35   | 690        | 72                             | 30   | 8  | 87   |
| WDU 50                      | 6                                 | 50   | 690        | 60                             | 39   | 11   | 88   |
| WDU 70N                     | 10                                | 70   | 690        | 45                             | 52   | 7  | 134  |
| WDU <b>70</b> / 95          | 16                                | 70   | 690        | 11                             | 100  | 6  | 134  |
| WDU <b>70</b> / <b>95</b>   | 16                                | 95   | 690        | 11                             | 116  | 8  | 134  |
| WDU <b>120</b> / 150        | 35                                | 120  | 690        | 9                              | 139  | 6  | 162  |
| WDU <b>120</b> / <b>150</b> | 35                                | 150  | 690        | 9                              | 148  | 8  | 153  |
| WFF 35                      | 2.5                               | 35   | 1100       | 22                             | 58   | 13   | 76   |
| WFF 70                      | 2.5                               | 70   | 1100       | 9                              | 116  | 9  | 116  |
| WFF 120                     | 6                                 | 120  | 1100       | 7                              | 163  | 7  | 162  |

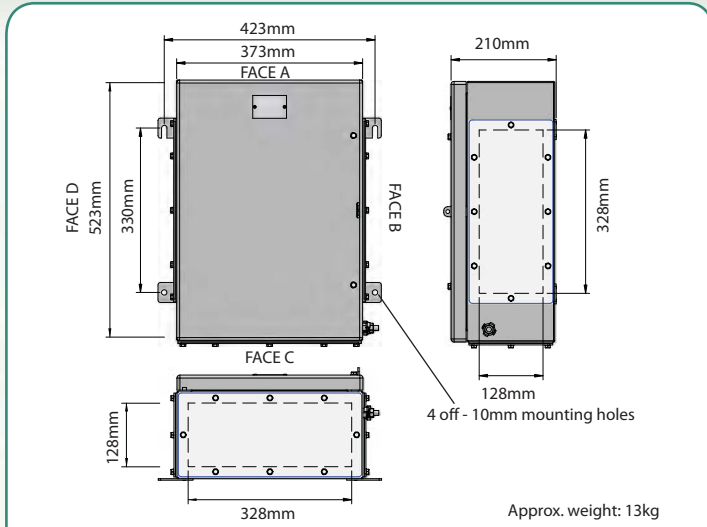
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 5 (S5) Stainless Steel

## S Series Enclosures

26

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size         | M16  | M20 / O | M20 / A | M25 | M32 | M40   | M50 | M63 | M75 |
|---------------------|------|---------|---------|-----|-----|-------|-----|-----|-----|
| Faces B, C & D Qty. | 40 # | 30      | 28      | 20  | 11  | 8 # * | 5 * | 3   | 2   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.  
\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ⓢ II 2 GD Exe II ExtD A21.
- Size 5 (S5) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 5 (ZS5) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- Alternative certification options available:



Exe II



AExe II / Exe II



GOST R-Exe IIU



GOST K- Approved for use in Kazakhstan

**For full technical specification, see Page 32**

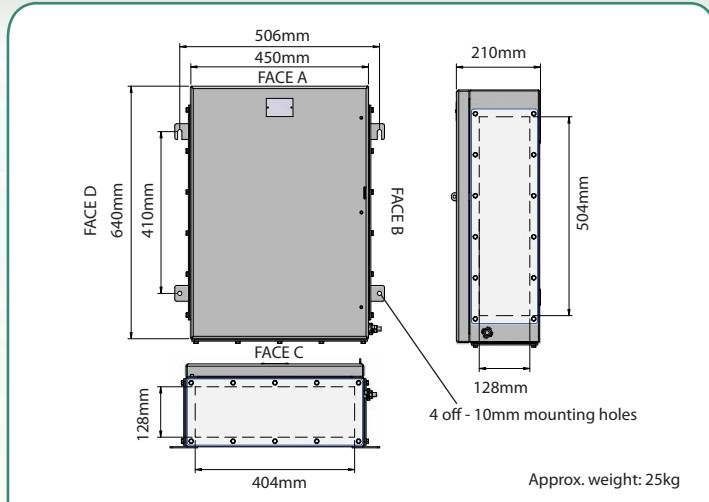
### TERMINAL CAPACITY

| Terminal Type               | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|-----------------------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|                             | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5                     | 0.5                               | 2.5  | 550        | 249                            | 5    | 21   | 17   |
| WDU 4                       | 0.5                               | 4    | 690        | 192                            | 7    | 20   | 22   |
| WDU 6                       | 0.5                               | 6    | 550        | 144                            | 9    | 16   | 29   |
| WDU 10                      | 1.5                               | 10   | 550        | 120                            | 13   | 14   | 40   |
| WDU 16                      | 1.5                               | 16   | 690        | 96                             | 19   | 12   | 53   |
| WDU 35                      | 2.5                               | 35   | 690        | 72                             | 31   | 9  | 87   |
| WDU 50                      | 6                                 | 50   | 690        | 56                             | 42   | 13   | 88   |
| WDU 70N                     | 10                                | 70   | 690        | 40                             | 58   | 7  | 134  |
| WDU <b>70</b> / 95          | 16                                | 70   | 690        | 15                             | 93   | 7  | 134  |
| WDU <b>70</b> / <b>95</b>   | 16                                | 95   | 690        | 15                             | 105  | 9  | 134  |
| WDU <b>120</b> / 150        | 35                                | 120  | 690        | 12                             | 126  | 7  | 162  |
| WDU <b>120</b> / <b>150</b> | 35                                | 150  | 690        | 12                             | 134  | 8  | 162  |
| WFF 35                      | 2.5                               | 35   | 1100       | 15                             | 75   | 14   | 76   |
| WFF 70                      | 2.5                               | 70   | 1100       | 12                             | 114  | 11   | 116  |
| WFF 120                     | 6                                 | 120  | 1100       | 9                              | 163  | 9  | 162  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.



Increased Safety Exe Dual Certified ATEX / IECEx

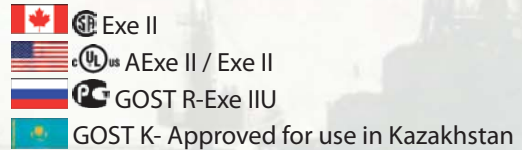


### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16    | M20 / O | M20 / A | M25 | M32 | M40 | M50 | M63 | M75 |
|-----------------------|--------|---------|---------|-----|-----|-----|-----|-----|-----|
| Bottom Face C Qty.    | 44 #   | 42      | 32      | 26  | 14  | 11  | 6   | 4   | 3   |
| Side Faces B & D Qty. | 56 # * | 54      | 40      | 33  | 18  | 14  | 8   | 5   | 4   |

### Technical Data

- Increased Safety Ⓢ II 2 GD Exe II ExtD.
- Size 6 (S6) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 6 (ZS6) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- Alternative certification options available:



**For full technical specification, see Page 32**

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.  
\* Serrated Washers / Locknuts must not foul on aperture wall.

### TERMINAL CAPACITY

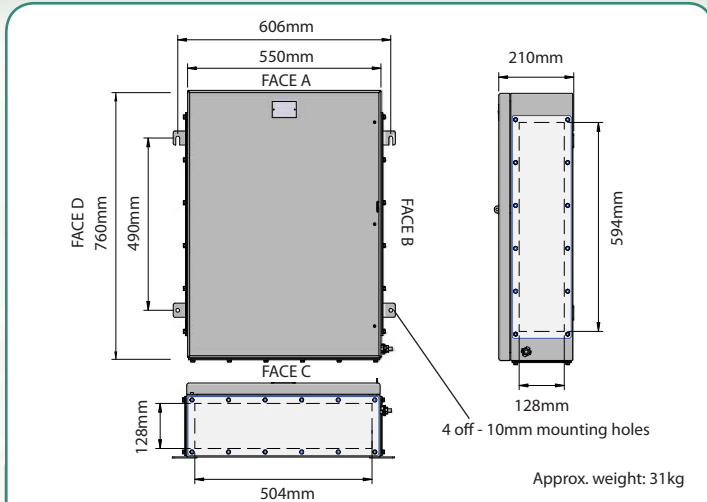
| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 416                            | 3    | 22   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 320                            | 5    | 20   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 240                            | 7    | 17   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 200                            | 11   | 15   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 160                            | 15   | 13   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 120                            | 25   | 10   | 87   |
| WDU 50        | 6                                 | 50   | 690        | 96                             | 33   | 13   | 88   |
| WDU 70N       | 10                                | 70   | 690        | 50                             | 54   | 9  | 134  |
| WDU 70 / 95   | 16                                | 70   | 690        | 19                             | 86   | 8  | 134  |
| WDU 70 / 95   | 16                                | 95   | 690        | 19                             | 97   | 11   | 134  |
| WDU 120 / 150 | 35                                | 120  | 690        | 16                             | 114  | 9  | 162  |
| WDU 120 / 150 | 35                                | 150  | 690        | 16                             | 120  | 10   | 162  |
| WFF 35        | 2.5                               | 35   | 1100       | 38                             | 48   | 16   | 76   |
| WFF 70        | 2.5                               | 70   | 1100       | 16                             | 100  | 13   | 116  |
| WFF 120       | 6                                 | 120  | 1100       | 12                             | 152  | 11   | 162  |
| WFF 185       | 10                                | 185  | 1100       | 9                              | 212  | 7  | 234  |
| WFF 300       | 25                                | 300  | 1100       | 9                              | 255  | 6  | 316  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44  
The box is supplied with an integral internal / external earth stud assembly.  
The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 7 (S7) Stainless Steel

## S Series Enclosures

Increased Safety Exe Dual Certified ATEX / IECEx



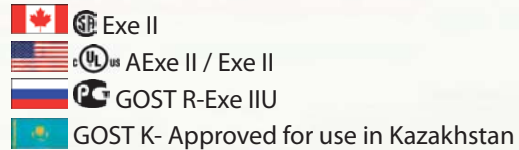
### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16   | M20 / O | M20 / A | M25 | M32 | M40 | M50 | M63 | M75 |
|-----------------------|-------|---------|---------|-----|-----|-----|-----|-----|-----|
| Bottom Face C Qty.    | 56 #* | 54      | 45      | 33  | 18  | 14  | 8   | 5   | 4   |
| Side Faces B & D Qty. | 64 #* | 64 #*   | 56      | 36  | 20  | 16  | 9   | 6   | 4   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.  
\* Serrated Washers / Locknuts must not foul on aperture wall.

### Technical Data

- Increased Safety Ⓢ II 2 GD Exe II ExtD A21.
- Size 7 (S7) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 7 (ZS7) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- Alternative certification options available



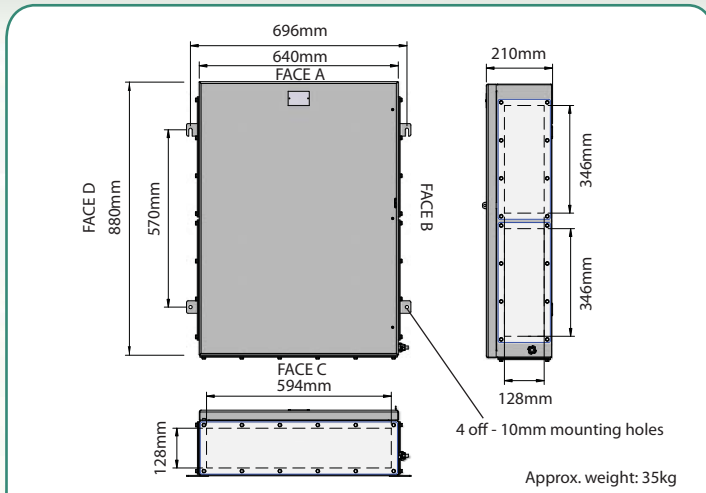
For full technical specification, see Page 32

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 640                            | 3    | 24   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 515                            | 5    | 23   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 380                            | 6    | 19   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 300                            | 9    | 16   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 250                            | 12   | 14   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 190                            | 21   | 11   | 87   |
| WDU 50        | 6                                 | 50   | 690        | 155                            | 27   | 15   | 88   |
| WDU 70N       | 10                                | 70   | 690        | 93                             | 42   | 9  | 134  |
| WDU 70 / 95   | 16                                | 70   | 690        | 23                             | 83   | 8  | 134  |
| WDU 70 / 95   | 16                                | 95   | 690        | 23                             | 94   | 11   | 134  |
| WDU 120 / 150 | 35                                | 120  | 690        | 20                             | 110  | 9  | 162  |
| WDU 120 / 150 | 35                                | 150  | 690        | 20                             | 117  | 10   | 162  |
| WFF 35        | 2.5                               | 35   | 1100       | 46                             | 45   | 16   | 76   |
| WFF 70        | 2.5                               | 70   | 1100       | 40                             | 67   | 13   | 116  |
| WFF 120       | 6                                 | 120  | 1100       | 15                             | 145  | 11   | 162  |
| WFF 185       | 10                                | 185  | 1100       | 11                             | 203  | 8  | 234  |
| WFF 300       | 25                                | 300  | 1100       | 11                             | 227  | 6  | 316  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44 The box is supplied with an integral internal / external earth stud assembly. The terminals listed are restricted to a minimum operating temperature of -50°C.

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16    | M20 / O | M20 / A | M25 | M32 | M40 | M50 | M63 | M75 |
|-----------------------|--------|---------|---------|-----|-----|-----|-----|-----|-----|
| Bottom Face C Qty.    | 64 # * | 64      | 42      | 42  | 21  | 16  | 9   | 6   | 4   |
| Side Faces B & D Qty. | 72 # * | 68      | 54      | 48  | 24  | 18  | 18  | 12  | 8   |

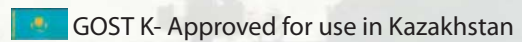
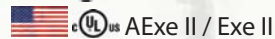
# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.

\* Serrated Washers / Locknuts must not foul on aperture wall.

Notes: Entry quantities shown for faces B & D are split over two gland plates.

### Technical Data

- Increased Safety Ⓢ II 2 GD Exe II ExtD.
- Size 8 (S8) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 8 (ZS8) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- Alternative certification options available:



**For full technical specification, see Page 32**

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 912                            | 2    | 26   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 720                            | 4    | 25   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 540                            | 5    | 21   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 438                            | 8    | 18   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 360                            | 11   | 16   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 270                            | 18   | 12   | 87   |
| WDU 50        | 6                                 | 50   | 690        | 216                            | 24   | 17   | 88   |
| WDU 70N       | 10                                | 70   | 690        | 108                            | 41   | 10   | 134  |
| WDU 70 / 95   | 16                                | 70   | 690        | 56                             | 56   | 9  | 134  |
| WDU 70 / 95   | 16                                | 95   | 690        | 56                             | 62   | 12   | 134  |
| WDU 120 / 150 | 35                                | 120  | 690        | 46                             | 77   | 10   | 162  |
| WDU 120 / 150 | 35                                | 150  | 690        | 46                             | 82   | 12   | 162  |
| WFF 35 *      | 2.5                               | 35   | 1100       | 84                             | 35   | 18   | 76   |
| WFF 70 *      | 2.5                               | 70   | 1100       | 46                             | 66   | 14   | 116  |
| WFF 120 *     | 6                                 | 120  | 1100       | 36                             | 98   | 13   | 162  |
| WFF 185 *     | 10                                | 185  | 1100       | 13                             | 197  | 9  | 234  |
| WFF 300 *     | 25                                | 300  | 1100       | 13                             | 221  | 7  | 316  |

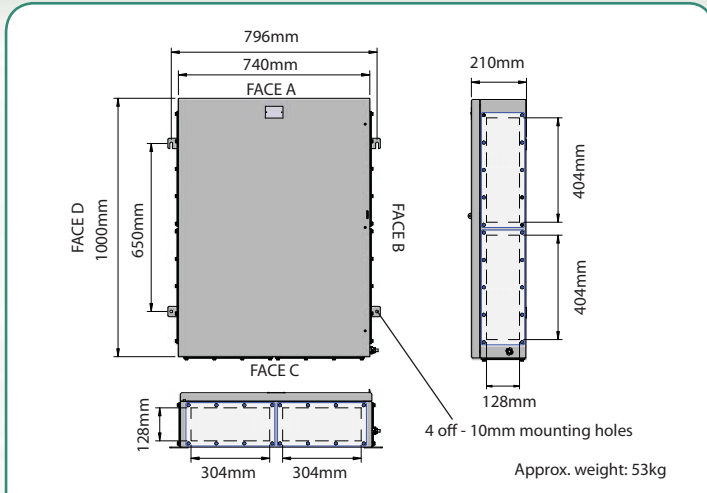
Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44 The box is supplied with an integral internal / external earth stud assembly. The terminals listed are restricted to a minimum operating temperature of -50°C.

# Enclosure Type: Size 9 (S9) Stainless Steel

## S Series Enclosures

30

Increased Safety Exe Dual Certified ATEX / IECEx



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size           | M16    | M20 / O | M20 / A | M25 | M32 | M40 | M50 | M63 | M75 |
|-----------------------|--------|---------|---------|-----|-----|-----|-----|-----|-----|
| Bottom Face C Qty.    | 64 # * | 60      | 52      | 42  | 20  | 16  | 8   | 6   | 4   |
| Side Faces B & D Qty. | 88 # * | 84      | 68      | 54  | 28  | 22  | 12  | 8   | 6   |

# Serrated Washers / Locknuts with large outside diameters may foul on adjacent glands.

\* Serrated Washers / Locknuts must not foul on aperture wall.

Notes: Entry quantities shown for faces B,C & D are split over two gland plates.

### Technical Data

- Increased Safety Ex II 2 GD Exe II ExtD A21.
- Size 9 (S9) Certificate No's: Baseefa08ATEX0208X and IECEx BAS 08.0065X.
- Z Size 9 (ZS9) Certificate No's: Baseefa08ATEX0207U and IECEx BAS 08.0064U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -60°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 266.
- Alternative certification options available:
  - Exe II
  - AExe II / Exe II
  - GOST R-Exe IIU
  - GOST K- Approved for use in Kazakhstan

For full technical specification, see Page 32

### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |      | Max. Volts | Max. Physical Terminal Content |      | Reduced Terminal Content at Max. Terminal Amps |      |
|---------------|-----------------------------------|------|------------|--------------------------------|------|--|------|
|               | Min.                              | Max. |            | Terminal Qty.                  | Amps | Terminal Qty.                                  | Amps |
| WDU 2.5       | 0.5                               | 2.5  | 550        | 1232                           | 2    | 28   | 17   |
| WDU 4         | 0.5                               | 4    | 690        | 980                            | 3    | 27   | 22   |
| WDU 6         | 0.5                               | 6    | 550        | 735                            | 5    | 23   | 29   |
| WDU 10        | 1.5                               | 10   | 550        | 595                            | 7    | 20   | 40   |
| WDU 16        | 1.5                               | 16   | 690        | 490                            | 10   | 17   | 53   |
| WDU 35        | 2.5                               | 35   | 690        | 371                            | 16   | 13   | 87   |
| WDU 50        | 6                                 | 50   | 690        | 308                            | 21   | 18   | 88   |
| WDU 70N       | 10                                | 70   | 690        | 172                            | 34   | 11   | 134  |
| WDU 70 / 95   | 16                                | 70   | 690        | 64                             | 55   | 10   | 134  |
| WDU 70 / 95   | 16                                | 95   | 690        | 64                             | 63   | 14   | 134  |
| WDU 120 / 150 | 35                                | 120  | 690        | 54                             | 75   | 11   | 162  |
| WDU 120 / 150 | 35                                | 150  | 690        | 54                             | 81   | 13   | 162  |
| WFF 35 *      | 2.5                               | 35   | 1100       | 96                             | 34   | 19   | 76   |
| WFF 70 *      | 2.5                               | 70   | 1100       | 81                             | 52   | 16   | 116  |
| WFF 120 *     | 6                                 | 120  | 1100       | 42                             | 94   | 14   | 162  |
| WFF 185 *     | 10                                | 185  | 1100       | 32                             | 131  | 10   | 234  |
| WFF 300 *     | 25                                | 300  | 1100       | 32                             | 162  | 8  | 316  |

Notes: For Junction Box Wattage Factor and Combined Terminal Resistance, see Pages 43 & 44.

The box is supplied with an integral internal / external earth stud assembly.

The terminals listed are restricted to a minimum operating temperature of -50°C.

## Z-Series Enclosures

The S-Series, EJB range, GRP range and Eze enclosures are all available as empty component certified enclosures, allowing for even greater flexibility in their use. If supplied as component certified only, the customer must obtain final certification after fitting their own equipment. Component approved enclosures are denoted by the inclusion of the prefix "Z" i.e. ZS2, ZPL615.

## Optional Lid Windows

All enclosure lids for stainless steel enclosures for sizes 2 to 9 in the S-Series and ZS-Series are available with an optional glass viewing window. The windows are manufactured from 6mm thick toughened glass with a 316L stainless steel frame and silicone sponge gaskets which maintain the IP66 rating.

## Bespoke Enclosure Design

Should you require a stainless steel enclosure outside of our standard range of products listed, please contact Hawke International to discuss the feasibility of producing an enclosure to your requirements.

## "Drop-in" Mounting Plate


The stainless steel enclosures, sizes 1 through 9, are available with an optional "drop-in" mounting plate, making the installation and termination of cabling and associated termination equipment possible. Please see page 41 for more details.

## Internal Document Pockets

The S-Series and ZS-Series enclosures are available with an optional steel internal document pocket upon request. Please contact Hawke International for further details.

- To ensure that the maximum temperature as permitted by certification is not exceeded, the Dissipated Wattage Factor Formula is used:  $W = N \times F \times I^2$  (See Page 43 for enclosure wattage).
- It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferrule.
- Linked and mixed terminal arrangements other than those specified in the data tables are available, but the voltage and current figures may be affected to ensure the maximum certified wattage factor is not exceeded. Please contact Hawke Technical Sales for more information.
- For Intrinsically Safe Applications, Exe power terminals can be supplied in blue on request. (Note: the enclosure will remain Exe certified).
- The enclosure is provided with an integral internal / external earth stud assembly, but when required, one or more rail mounted earth terminals may be fitted inside the enclosure but the quantity of power terminals shall be reduced accordingly. (Note: power terminals may be used as 'clean earths').
- The enclosure has metric clearance / plain entry holes as standard. Alternative clearance holes are available provided they are to a recognised standard e.g. BSPP, ET etc. (Parallel threads only). Plain entry holes must maintain the following:
  - a) The plain hole shall be no larger than 0.7mm above the major diameter of the entry thread.
  - b) The gland or stopping plug is secured internally by a locknut, such that the gland or stopping plug will not be dislodged by a 7Nm impact.
  - c) The enclosure should be maintained at IP66 by the use of a suitable sealing washer under the shoulder of the cable gland.
- The customer may drill plain entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the certification, contact Hawke Technical Sales for more information.
- When mixed entries are required on a face, contact Hawke Technical Sales for more information.
- All unused entry holes must be fitted with a stopping plug as listed on the enclosure certificate. The stopping plug shall be held in place by a locknut.

### Specification

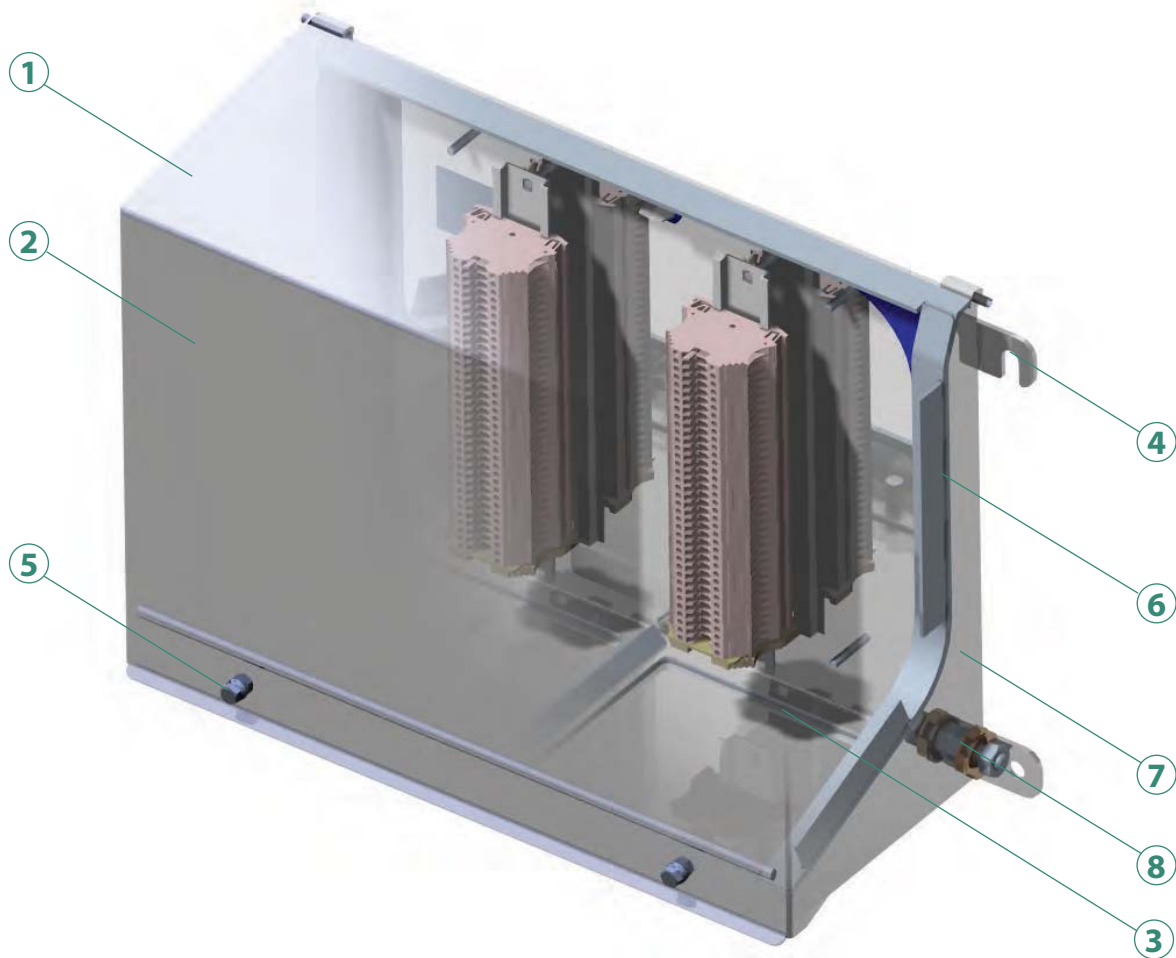
|                                |   |
|--------------------------------|---|
| Certification :                | <b>S Series</b> -  II2 GD Exe II ExtD.<br><b>EJB Series</b> - Certificate No's Baseefa 08ATEX0208X and IECEx BAS08.0065X.  |
| Zones of Use :                 | Zone 1, Zone 2, Zone 21 & Zone 22.  |
| Temperature Class & Ambients : | T6 40°C as standard. Optional T5 with ambients up to 65°C.  |
| Operating Temperature Range :  | -60°C to +80°C.   |
| Degree of Protection :         | IP66 and Deluge proof to DTS01.   |
| Material :                     | Stainless Steel.  |
| Finish :                       | Electro-polished as standard (optional – unpolished finish).  |
| Impact Resistance :            | Up to 7Nm.  |
| Weatherproofing :              | By bonded silicone sponge lid and gland plate gaskets.  |
| Certification Label :          | Stainless Steel or optional certified self adhesive foil.   |
| Lid Fixing Screws :            | Stainless Steel (complete with nylon retaining washer).   |
| Additional Options :           | Breather/Drain devices. Epoxy paint finish for colour coding. EMI/RFI wire mesh on lid gasket for EMC requirements.   |
| Additional Labels :            | Stainless Steel or laminated plastic (traffolyte) for external use only or optional (certified) self adhesive foil for external and/or internal use.  |
| Window:                        | Windows available for S2 / ZS2 to S9 / ZS9 Stainless Steel Boxes. Windows will be located in the lid and are manufactured from 6mm thick toughened glass with a Stainless Steel Grade 316L frame and silicone sponge gaskets which provide IP66 Ingress Protection. |
| Internal Mounting Plates:      | The S / ZS Series boxes can be supplied with an internal plated steel or stainless steel mounting plate.  |

### Earth Continuity

These enclosures have an integral internal / external earth stud assembly.

# Eze Stainless Steel Enclosures





**1 Robust Stainless Steel Construction**

Enclosure material thickness ranges between 1.2 – 2.0mm with 2 – 3mm thick gland plates. Durable stainless steel rating label.

**2 Electropolished Surface Finish**

Provides high levels of corrosion resistance.

**3 Softer Finished Rounded Edges**

Safer manual handling of enclosure and gland plates.

**4 Rigid Slotted External Mounting Feet**

Allows enclosure to be hung onto the structure.

**5 Stainless Steel Lid Fixing Screws with Nylon Retaining Washers**

Prevents loss of screws during assembly and maintenance.

**6 Superior One Piece Silicone Sponge Gaskets**

DTS01 deluge protection.

Provides Ingress Protection to IP66.

Durable with excellent UV stability and chemical resistance. Good chemical resistance – EMC mesh option.

**7 Extensive Range of Enclosure Sizes Available**

Three standard enclosure sizes available, Sizes range from 224 x 310 x 183 to 624 x 310 x 183.

Gland plate on face C only.

**8 Internal/External Earth Stud**



Increased Safety Exe Dual Certified ATEX / IECEx

Approx. weight: 6.1kg

| MAXIMUM QUANTITY OF ENTRIES PER FACE |     |              |           |         |     |     |     |
|--------------------------------------|-----|--------------|-----------|---------|-----|-----|-----|
| Thread Size                          | M16 | M20 / Os & O | M20 / A   | M25     | M32 | M40 | M50 |
| Bottom Face Qty.                     | 20  | 20           | 14 (12 *) | 9 (8 *) | 6   | 4   | 2   |

### Technical Data

- Increased Safety Ex II 2 GD Exe II, ExtD
- Eze 22 Certificate No's: Baseefa08ATEX0364X and IECEx BAS 08.0125X.
- ZEze 22 Certificate No's: Baseefa08ATEX0363U and IECEx BAS 08.0124U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -40°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 280.
- Alternative certification options available:
  - GOST R-Exe IIIU
  - GOST K- Approved for use in Kazakhstan

**For full technical specification, see Page 38**

\* Recommended maximum for cable gland installation.

| TERMINAL CAPACITY |                                   |     |            |                                 |      |                                |      |                                    |      |
|-------------------|-----------------------------------|-----|------------|---------------------------------|------|--------------------------------|------|------------------------------------|------|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |     | Max. Volts | Typical Terminal Arrangements   |      |                                |      |                                    |      |
|                   |                                   |     |            | 1 Vertical Rail (Max. Physical) |      | 1 Vertical Rail (Max. Current) |      | 2 Vertical Rails * (Max. Physical) |      |
|                   | Min                               | Max |            | Terminal Qty.                   | Amps | Terminal Qty.                  | Amps | Terminal Qty.                      | Amps |
| WDU 2.5N          | 0.5                               | 2.5 | 420        | 38                              | 11   | 17                             | 17   | 76                                 | 8    |
| WDU 2.5           | 0.5                               | 2.5 | 550        | 38                              | 11   | 17                             | 17   | -                                  | -    |
| WDU 4             | 0.5                               | 4   | 690        | 32                              | 15   | 16                             | 22   | -                                  | -    |
| WDU 6             | 0.5                               | 6   | 550        | 24                              | 21   | 13                             | 29   | -                                  | -    |
| WDU 10            | 1.5                               | 10  | 550        | 19                              | 30   | 11                             | 40   | -                                  | -    |
| WDU 16            | 1.5                               | 16  | 690        | 16                              | 41   | 9                              | 53   | -                                  | -    |
| WDU 35            | 2.5                               | 35  | 690        | 12                              | 67   | 7                              | 87   | -                                  | -    |
| WDU 50            | 6                                 | 50  | 690        | 9                               | 88   | 9                              | 88   | -                                  | -    |

Information in the table above is based on the maximum conductor size permitted for the terminal. If earth terminals are required, the quantity should be taken from the maximum physical terminal quantity.

\* Special box arrangement with rail heights staggered.

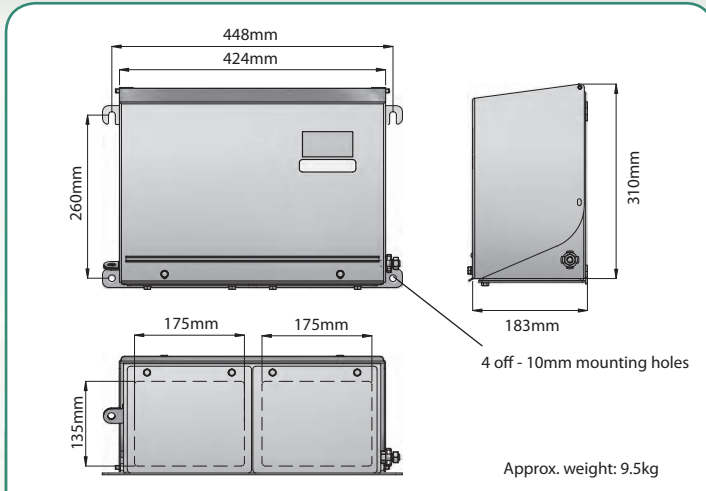
Notes: A combination of different sized entries is possible. The table above gives an indication of potential terminal arrangements. Other arrangements, different sized terminals or other terminal types and empty enclosures are available. Please contact Hawke International for more information.

# Enclosure Type: Eze 42 Stainless Steel

Increased Safety Exe Dual Certified ATEX / IECEx

## Eze Series Enclosures

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### Technical Data

- Increased Safety  $\text{Ex} \text{II} 2 \text{GD} \text{Exe II, ExtD}$ .
- Eze 42 Certificate No's: Baseefa08ATEX0364X and IECEx BAS 08.0125X.
- ZEze 42 Certificate No's: Baseefa08ATEX0363U and IECEx BAS 08.0124U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$ .
- Temperature Class and Ambient: T6  $40^{\circ}\text{C}$ , optional T5 with ambients up to  $65^{\circ}\text{C}$ .
- Assembly Instruction Sheet: AI 280.
- Alternative certification options available:



### MAXIMUM QUANTITY OF ENTRIES PER FACE

| Thread Size      | M16 | M20 / Os & O | M20 / A   | M25       | M32 | M40 | M50 |
|------------------|-----|--------------|-----------|-----------|-----|-----|-----|
| Bottom Face Qty. | 40  | 40           | 28 (24 *) | 18 (16 *) | 12  | 8   | 4   |

\* Recommended maximum for cable gland installation

**For full technical specification, see Page 38**

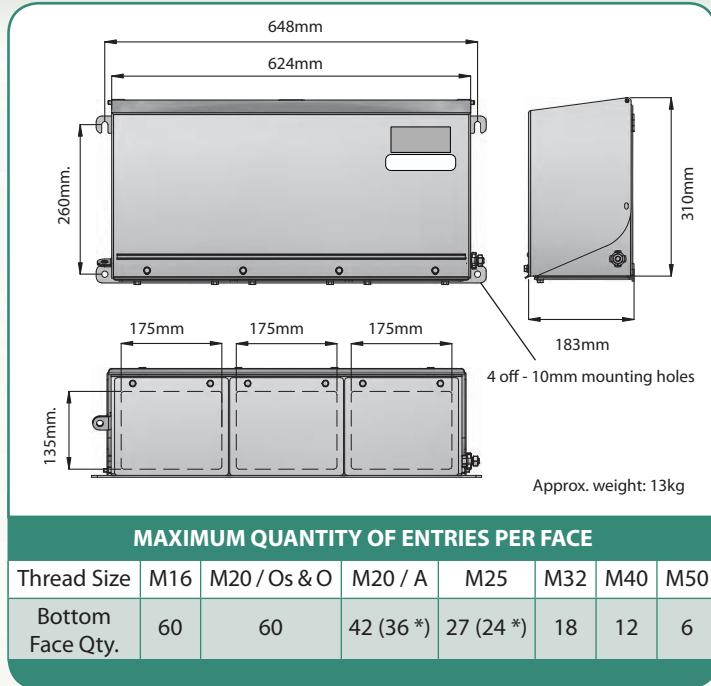
### TERMINAL CAPACITY

| Terminal Type | Conductor Size (mm <sup>2</sup> ) |     | Max. Volts | Typical Terminal Arrangements    |      |                                 |      |                                  |      |
|---------------|-----------------------------------|-----|------------|----------------------------------|------|---------------------------------|------|----------------------------------|------|
|               |                                   |     |            | 2 Vertical Rails (Max. Physical) |      | 2 Vertical Rails (Max. Current) |      | 3 Vertical Rails (Max. Physical) |      |
|               | Min                               | Max |            | Terminal Qty.                    | Amps | Terminal Qty.                   | Amps | Terminal Qty.                    | Amps |
| WDU 2.5N      | 0.5                               | 2.5 | 420        | 76                               | 8    | 20                              | 17   | 114                              | 7    |
| WDU 2.5       | 0.5                               | 2.5 | 550        | 76                               | 8    | 20                              | 17   | 114                              | 7    |
| WDU 4         | 0.5                               | 4   | 690        | 64                               | 12   | 19                              | 22   | 96                               | 10   |
| WDU 6         | 0.5                               | 6   | 550        | 48                               | 16   | 16                              | 29   | 72                               | 13   |
| WDU 10        | 1.5                               | 10  | 550        | 38                               | 24   | 13                              | 40   | -                                | -    |
| WDU 16        | 1.5                               | 16  | 690        | 32                               | 32   | 12                              | 53   | -                                | -    |
| WDU 35        | 2.5                               | 35  | 690        | 24                               | 53   | 9                               | 87   | -                                | -    |
| WDU 50        | 6                                 | 50  | 690        | 20                               | 61   | 12                              | 88   | -                                | -    |

Information in the table above is based on the maximum conductor size permitted for the terminal. If earth terminals are required, the quantity should be taken from the maximum physical terminal quantity.

**NOTES:** A combination of different sized entries is possible. The table above gives an indication of potential terminal arrangements. Other arrangements, different sized terminals or other terminal types and empty enclosures are available. Please contact Hawke International for more information.

Increased Safety Exe Dual Certified ATEX / IECEx



### Technical Data

- Increased Safety Ex II 2 GD Exe II, ExtD.
- Eze 62 Certificate No's: Baseefa08ATEX0364X and IECEx BAS 08.0125X.
- ZEze 62 Certificate No's: Baseefa08ATEX0363U and IECEx BAS 08.0124U.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1.
- Ingress Protection: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.
- Operating Temperature Range: -40°C to +80°C.
- Temperature Class and Ambient: T6 40°C, optional T5 with ambients up to 65°C.
- Assembly Instruction Sheet: AI 280.
- Alternative certification options available:
  - GOST R-Exe IIIU
  - GOST K- Approved for use in Kazakhstan

\* Recommended maximum for cable gland installation

**For full technical specification, see Page 38**

| TERMINAL CAPACITY |                                   |     |            |                                  |      |                                 |      |                                  |      |                                  |      |
|-------------------|-----------------------------------|-----|------------|----------------------------------|------|---------------------------------|------|----------------------------------|------|----------------------------------|------|
| Terminal Type     | Conductor Size (mm <sup>2</sup> ) |     | Max. Volts | Typical Terminal Arrangements    |      |                                 |      |                                  |      |                                  |      |
|                   |                                   |     |            | 3 Vertical Rails (Max. Physical) |      | 3 Vertical Rails (Max. Current) |      | 4 Vertical Rails (Max. Physical) |      | 5 Vertical Rails (Max. Physical) |      |
|                   | Min                               | Max |            | Terminal Qty.                    | Amps | Terminal Qty.                   | Amps | Terminal Qty.                    | Amps | Terminal Qty.                    | Amps |
| WDU 2.5N          | 0.5                               | 2.5 | 420        | 114                              | 6    | 19                              | 17   | 152                              | 6    | 190                              | 5    |
| WDU 2.5           | 0.5                               | 2.5 | 550        | 114                              | 6    | 19                              | 17   | 152                              | 6    | 190                              | 5    |
| WDU 4             | 0.5                               | 4   | 690        | 96                               | 9    | 17                              | 22   | 128                              | 8    | 160                              | 7    |
| WDU 6             | 0.5                               | 6   | 550        | 72                               | 13   | 14                              | 29   | 96                               | 13   | 120                              | 10   |
| WDU 10            | 1.5                               | 10  | 550        | 57                               | 19   | 12                              | 40   | -                                | -    | -                                | -    |
| WDU 16            | 1.5                               | 16  | 690        | 48                               | 25   | 10                              | 53   | -                                | -    | -                                | -    |
| WDU 35            | 2.5                               | 35  | 690        | 36                               | 42   | 8                               | 87   | -                                | -    | -                                | -    |
| WDU 50            | 6                                 | 50  | 690        | 30                               | 54   | 11                              | 88   | -                                | -    | -                                | -    |

Information in the table above is based on the maximum conductor size permitted for the terminal. If earth terminals are required, the quantity should be taken from the maximum physical terminal quantity.

**NOTES:** A combination of different sized entries is possible. The table above gives an indication of potential terminal arrangements. Other arrangements, different sized terminals or other terminal types and empty enclosures are available. Please contact Hawke for more information.

- To ensure that the maximum temperature as permitted by certification is not exceeded, the Dissipated Wattage Factor Formula is used:  $W = N \times F \times I^2$  (See Page 43 for enclosure wattage).
- It is not permitted to fit more than one conductor per side in rail or direct mounted terminals unless using an insulated Bootlace Ferrule.
- Linked and mixed terminal arrangements other than those specified in the data tables are available, but the voltage and current figures may be affected to ensure the maximum certified wattage factor is not exceeded. Please contact Hawke Technical Sales for more information.
- For Intrinsically Safe Applications, Exe power terminals can be supplied in blue on request. (Note: the enclosure will remain Exe certified).
- The enclosure is provided with an integral internal / external earth stud assembly, but when required, one or more rail mounted earth terminals may be fitted inside the enclosure but the quantity of power terminals shall be reduced accordingly. (Note: power terminals may be used as 'clean earths').
- The enclosure has metric clearance / plain entry holes as standard. Alternative clearance holes are available provided they are to a recognised standard e.g. BSPP, ET etc. (Parallel threads only).  
Plain entry holes must maintain the following:
  - a) The plain hole shall be no larger than 0.7mm above the major diameter of the entry thread.
  - b) The gland or stopping plug is secured internally by a locknut, such that the gland or stopping plug will not be dislodged by a 7Nm impact.
  - c) The enclosure should be maintained at IP66 by the use of a suitable sealing washer under the shoulder of the cable gland.
- The customer may drill plain entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the certification, Contact Hawke Technical Sales for more information.
- The customer may drill and tap entry holes in the enclosure providing they are in accordance with the relevant code of practice and comply with the certification, Contact Hawke Technical Sales for more information.
- When mixed entries are required on a face, Contact Hawke Technical Sales for more information.
- All unused entry holes must be fitted with a stopping plug as listed on the enclosure certificate. The stopping plug shall be held in place by a locknut.

### Specification

|                                |  |
|--------------------------------|--|
| Certification :                | Eze Series - Ⓢ II2 GD Exe II ExtD (GOST and Ⓢ options available).  |
| Zones of Use :                 | Zone 1, Zone 2, Zone 21 & Zone 22.   |
| Temperature Class & Ambients : | T6 40°C as standard. Optional T5 with ambients up to 65°C.   |
| Operating Temperature Range :  | -40°C to +80°C.  |
| Degree of Protection :         | IP66 and Deluge proof to DTS01.  |
| Material :                     | Stainless Steel.   |
| Finish :                       | Electro-polished as standard (optional – unpolished finish).   |
| Impact Resistance :            | Up to 7Nm.   |
| Weatherproofing :              | By bonded silicone sponge lid and gland plate gaskets.   |
| Certification Label :          | Stainless Steel or optional certified self adhesive foil.  |
| Lid Fixing Screws :            | Stainless Steel (complete with nylon retaining washer).  |
| Additional Options :           | Breather/Drain devices. Epoxy paint finish for colour coding. EMI/RFI wire mesh on lid gasket for EMC requirements.                                  |
| Additional Labels :            | Stainless Steel or laminated plastic (traffolyte) for external use only or optional (certified) self adhesive foil for external and/or internal use. |
| Internal Mounting Plates:      | The Eze / ZEze Series boxes can be supplied with an internal plated steel or stainless steel mounting plate.   |

### Earth Continuity

These enclosures have an integral internal / external earth stud assembly.

# Enclosure Accessories



# Accessories

Increased Safety Exe Dual Certified ATEX / IECEx

## Enclosure Accessories



### Internal / External Earth stud (Included in PL box certification)

#### Technical Data

- Increased Safety M6 or M8 Stainless Steel Stud.
- Ingress Protection for PL6 Series Enclosures: IP66 and IP67 to IEC/EN 60529.
- Ingress Protection for PL7 Series Enclosures: IP66 to IEC/EN 60529.
- Deluge Protection to DTS01.



### Breather / Drain Device

#### Technical Data

- Fits M20 (standard) or M25 entry positions.
- ATEX component approved and listed on Hawke ATEX IECEx Exe enclosures.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Ingress Protection: IP66 to IEC/EN 60529.
- Operating Temperature Range: -50°C to +85°C.



### Terminal Block Type: HTB6

#### Technical Data

- Increased Safety Ⓢ II 2 GD.
- Certificate No's: Baseefa08ATEX0266U and IECEx BAS 08.0085U.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7.
- Assembly Instruction Sheet: AI 388.

*Note: Approved Component available from Hawke.*

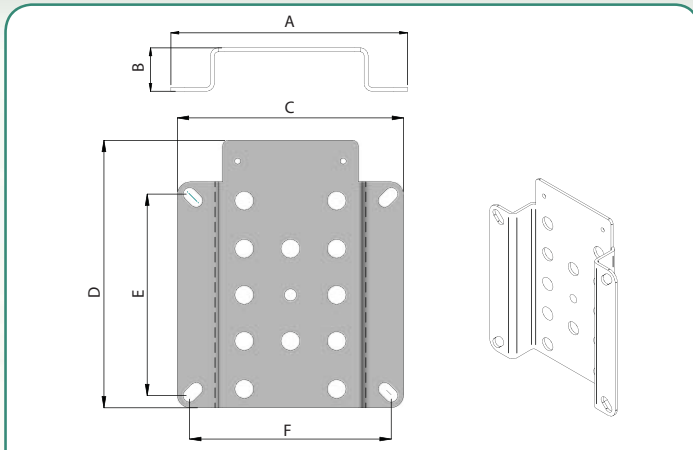


### Pillar Earth Terminal Type: PET5

#### Technical Data

- Increased Safety Ⓢ II 2 GD.
- Certificate No's: Baseefa09ATEX0035U and IECEx BAS 09.0010U.
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-7.
- Assembly Instruction Sheet: AI 387.

*Note: Approved Component available from Hawke.*



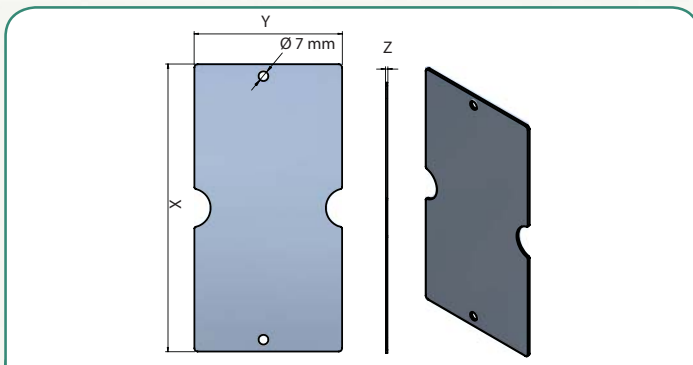
| DIM       | PLATE NO. (Size in mm) |       |       |       |       |       |
|-----------|------------------------|-------|-------|-------|-------|-------|
|           | 9450                   | 9451  | 9452  | 9453  | 9454  | 9455  |
| A         | 80                     | 110   | 150   | 200   | 180   | 180   |
| B         | 22                     | 22    | 22    | 22    | 22    | 22    |
| C         | 120                    | 150   | 200   | 300   | 260   | 220   |
| D         | 142                    | 172   | 222   | 322   | 182   | 142   |
| E         | 107                    | 134   | 180   | 280   | 144   | 106   |
| F         | 107                    | 134   | 180   | 280   | 244   | 206   |
| ENCLOSURE | PL612/712              | PL615 | PL620 | PL630 | PL626 | PL722 |

## Back Plate / Mounting Plate

The GRP enclosures, manufactured by Hawke International, are the ultimate in robust GRP construction - well above the levels required for certification. Certain GRP enclosures are designed to withstand impact resistance up to 20Nm with the requirement for Exe enclosures at just 7Nm.

The GRP Range, combined with the new Hawke mounting plate, offers the installer even greater ease of fitting. The external mounting feet of the range eliminates the need to remove the lid when mounting the enclosure on the Hawke mounting plate, preventing any foreign materials entering the enclosure during installation and eliminating the need for hot work permits

Hawke mounting plates are available to mount any of the PL6 or PL7 series range of enclosures and can be used on walls, pipes as well as unistrut, is stainless steel in construction and has multiple mounting holes allowing greater on-site flexibility. The mounting plates also allow for the fitting of customer labels.



| Box Size | Height (X) | Width (Y) | Thick (Z) |
|----------|------------|-----------|-----------|
| Size 1   | 176        | 86        | 1.6       |
| Size 2   | 236        | 198       | 1.6       |
| Size 3   | 358        | 198       | 1.6       |
| Size 4   | 368        | 304       | 1.6       |
| Size 5   | 466        | 304       | 1.6       |
| Size 6   | 580        | 380       | 1.6       |
| Size 7   | 700        | 480       | 1.6       |
| Size 8   | 820        | 570       | 1.6       |
| Size 9   | 940        | 670       | 1.6       |
| Size 2L  | 236        | 304       | 1.6       |
| Size 4L  | 368        | 380       | 1.6       |

## Drop In Plate

The stainless steel enclosures, sizes 1 through 9, are available with an optional "drop-in" mounting plate, facilitating the installation and termination of cabling and associated termination equipment.

The plates, constructed from galvanised steel as standard, will allow the easy mounting of various equipment sizes and types. All complex termination, wiring and mounting procedures can then take place outside of the confines of the enclosure.

For sizes S1, the plate is fitted with two fixing positions, all other sizes have four fixing positions.

# Technical Information





### ENCLOSURE DISSIPATED WATTAGE

| Enclosure Type                 | Temperature Class |         |         |         |         |
|--------------------------------|-------------------|---------|---------|---------|---------|
|                                | T6 40°C & T5 55°C | T6 55°C | T5 40°C | T6 65°C | T5 65°C |
| PL 612 GRP                     | 4.1               | 2.5     | 5.6     | 1.5     | 3       |
| PL 615 GRP                     | 6.4               | 4       | 8.8     | 2.4     | 4.8     |
| PL 620 GRP                     | 11.4              | 7.1     | 15.6    | 4.2     | 8.5     |
| PL 626 GRP                     | 11.4              | 7.1     | 15.6    | 4.2     | 8.5     |
| PL 630 GRP                     | 20.8              | 13      | 28.6    | 7.8     | 15.6    |
| PL 712 GRP                     | 3.35              | 2.14    | 4.6     | 1.2     | 2.4     |
| PL 722 GRP                     | 5.31              | 3.32    | 7.3     | 1.9     | 3.9     |
| Size 1 (S1) St./St.            | 13.95             | 8.7     | 19.1    | 5.2     | 10.4    |
| Size 2 (S2) St./St.            | 18.15             | 11.3    | 24.9    | 6.8     | 13.6    |
| Size 2L (S2L) St./St. x 2 Long | 18.15             | 11.3    | 24.9    | 6.8     | 13.6    |
| Size 3 (S3) St./St.            | 23.7              | 14.8    | 32.5    | 8.8     | 17.7    |
| Size 4 (S4) St./St.            | 29.95             | 18.7    | 41.1    | 11.2    | 22.4    |
| Size 4L (S4L) St./St. x 4 Long | 29.95             | 18.7    | 41.1    | 11.2    | 22.4    |
| Size 5 (S5) St./St.            | 32.85             | 20.5    | 45.1    | 12.3    | 24.6    |
| Size 6 (S6) St./St.            | 40                | 25      | 55      | 15      | 30      |
| Size 7 (S7) St./St.            | 52                | 23.5    | 71.5    | 19.5    | 39      |
| Size 8 (S8) St./St.            | 65                | 40.6    | 89.3    | 24.3    | 48.7    |
| Size 9 (S9) St./St.            | 79.35             | 49.5    | 109.1   | 29.7    | 59.5    |
| Eze 22 St./St.                 | 17.7              | 11      | 24.3    | 6.6     | 13.3    |
| Eze 42 St./St.                 | 27                | 16.9    | 37      | 10.1    | 20.2    |
| Eze 62 St./St.                 | 31.5              | 19.9    | 43.7    | 11.9    | 23.8    |
| EJB 1 St./St.                  | 4.74              | 2.96    | 6.51    | 1.778   | 3.55    |
| EJB 2 St./St.                  | 6.64              | 4.15    | 9.13    | 2.49    | 4.98    |

### DISSIPATED WATTAGE FACTOR

The Dissipated Wattage Factor of the enclosures has been established by test to ensure that the maximum temperature as permitted by temperature certification is not exceeded.

When terminal quantities greater than those at maximum amps are required (up to maximum physical quantity only) then the current shall be reduced accordingly to remain within the Dissipated Wattage Factor of the enclosure.

### COMBINED TERMINAL RESISTANCE FACTOR (See Page 44)

This factor is used to determine the number of terminals that can be accommodated within the enclosure without exceeding the Wattage Factor. The Combined Terminal Resistance Factor is the sum of the individual terminal resistances and the resistance of the cable core equal in length to the enclosure maximum diagonal. (Core Resistance is taken from BS 6360).

### WATTAGE TO BE DISSIPATED = N X F X I<sup>2</sup>

N = Number of Terminals

F - Combined Terminal Resistance Factor

I = Maximum Current

e.g. Number of terminals in a PL 630 enclosure at 20.8 Watts:

10 x WDU 2.5 (I = 17 amps), 2 x WDU 6 (I = 29 amps)

$(10 \times 0.003035 \times 17^2 = 8.77 \text{ watts}) + (2 \times 0.001404 \times 29^2) = 2.36 \text{ watts}$

Total Watts = 8.77 + 2.36 = 11.13 watts.

Therefore, this terminal combination is acceptable as the wattage is less than that of the PL 630 maximum of 20.8 watts.

NOTE: If a smaller than maximum permitted conductor is fitted into a power terminal, then the smaller conductor resistance must be used when calculating the combined terminal resistance.

### TRANSPosed FORMULA:

$$W = N \times I^2 \qquad N \times \frac{W}{F \times I^2} \qquad I \sqrt{\frac{W}{N \times F}}$$

# Combined Terminal Resistance

Increased Safety Exe Dual Certified ATEX / IECEx

## Technical Calculations

### PL Series GRP Enclosures

| COMBINED TERMINAL RESISTANCE 'F' (Ohms) |                |          |          |          |           |          |          |
|---|----------------|----------|----------|----------|-----------|----------|----------|
| Terminal Type                           | Enclosure Type |          |          |          |           |          |          |
|   | PL 612         | PL 615   | PL 620   | PL 626   | PL 630    | PL 712   | PL 722   |
| WDU 2.5N                                | 0.001301       | 0.001657 | 0.002138 | 0.002398 | 0.003065  | 0.001412 | 0.002035 |
| WDU 2.5N                                | 0.001271       | 0.001627 | 0.002108 | 0.002368 | 0.003035  | 0.001382 | 0.002005 |
| WDU 4                                   | 0.000895       | 0.001117 | 0.001416 | 0.001578 | 0.001993  | 0.000965 | 0.001352 |
| WDU 6                                   | 0.000671       | 0.000819 | 0.001019 | 0.001127 | 0.001404  | 0.000717 | 0.000976 |
| WDU 10                                  | 0.000432       | 0.000520 | 0.000639 | 0.000703 | 0.000868  | 0.000460 | 0.000614 |
| WDU 16                                  | -              | 0.000351 | 0.000426 | 0.000466 | 0.000570  | -        | -        |
| WDU 35                                  | -              | -        | 0.000226 | 0.000244 | 0.000291  | -        | -        |
| WDU 50N                                 | -              | -        | 0.000164 | -        | 0.0002113 | -        | -        |
| WDU 70N                                 | -              | -        | 0.000124 | -        | 0.000158  | -        | -        |

### Eze Series

| COMBINED TERMINAL RESISTANCE 'F' (Ohms) |                |          |          |
|---|----------------|----------|----------|
| Terminal Type                           | Enclosure Type |          |          |
|   | Eze 22         | Eze 42   | Eze 62   |
| WDU 2.5N                                | 0.003509       | 0.004473 | 0.005688 |
| WDU 2.5                                 | 0.003479       | 0.004443 | 0.005658 |
| WDU 4                                   | 0.002269       | 0.002869 | 0.003625 |
| WDU 6                                   | 0.001589       | 0.001989 | 0.002495 |
| WDU 10                                  | 0.000978       | 0.001216 | 0.001516 |
| WDU 16                                  | 0.000639       | 0.000788 | 0.000977 |
| WDU 35                                  | 0.000323       | 0.000391 | 0.000477 |
| WDU 50N                                 | 0.000234       | 0.000284 | 0.000348 |

### EJB Series

| COMBINED TERMINAL RESISTANCE 'F' (Ohms) |                |           |
|---|----------------|-----------|
| Terminal Type                           | Enclosure Type |           |
|   | EJB1           | EJB2      |
| WDU 2.5N                                | 0.001734       | 0.002054  |
| WDU 2.5                                 | 0.001704       | 0.0002024 |
| WDU 4                                   | 0.001164       | 0.001364  |
| WDU 6                                   | 0.00085        | 0.000984  |
| WDU 10                                  | 0.00054        | 0.000618  |
| WDU 16                                  | N/A            | 0.000413  |

## S Series GRP Enclosures

| COMBINED TERMINAL RESISTANCE 'F' (Ohms) |                |             |                   |             |             |                   |             |             |             |             |             |
|---|----------------|-------------|-------------------|-------------|-------------|-------------------|-------------|-------------|-------------|-------------|-------------|
| Terminal Type                           | Enclosure Type |             |                   |             |             |                   |             |             |             |             |             |
|   | Size 1 (S1)    | Size 2 (S2) | Size 2 Long (S2L) | Size 3 (S3) | Size 4 (S4) | Size 4 Long (S4L) | Size 5 (S5) | Size 6 (S6) | Size 7 (S7) | Size 8 (S8) | Size 9 (S9) |
| WDU 2.5N                                | 0.002635       | 0.003509    | 0.004028          | 0.004176    | 0.004650    | 0.00519           | 0.005265    | 0.006229    | 0.007362    | 0.008437    | 0.009534    |
| WDU 2.5                                 | 0.002605       | 0.003479    | 0.003998          | 0.004146    | 0.004620    | 0.00517           | 0.005235    | 0.006199    | 0.007332    | 0.008407    | 0.009504    |
| WDU 4                                   | 0.001725       | 0.002269    | 0.002592          | 0.002684    | 0.002979    | 0.003320          | 0.003362    | 0.003961    | 0.004666    | 0.005335    | 0.006017    |
| WDU 6                                   | 0.001226       | 0.001589    | 0.001805          | 0.001866    | 0.002063    | 0.002291          | 0.002319    | 0.002719    | 0.003191    | 0.003637    | 0.004093    |
| WDU 10                                  | 0.000762       | 0.000978    | 0.001106          | 0.001142    | 0.001260    | 0.001394          | 0.001411    | 0.001649    | 0.001929    | 0.002195    | 0.002466    |
| WDU 16                                  | 0.000503       | 0.000639    | 0.000719          | 0.007420    | 0.000816    | 0.000900          | 0.000911    | 0.001061    | 0.001237    | 0.001404    | 0.001574    |
| WDU 35                                  | 0.000261       | 0.000323    | 0.000359          | 0.000370    | 0.000403    | 0.000442          | 0.000447    | 0.000515    | 0.000595    | 0.000671    | 0.000749    |
| WDU 50N                                 | -              | 0.000234    | 0.000262          | 0.000269    | 0.000294    | 0.000323          | 0.000326    | 0.000376    | 0.000436    | 0.000492    | 0.000549    |
| WDU 70N                                 | -              | 0.000174    | 0.000193          | 0.000198    | 0.000215    | 0.000235          | 0.000237    | 0.000272    | 0.000313    | 0.003520    | 0.000392    |
| WDU <b>70</b> / 95                      | -              | -           | -                 | -           | 0.000225    | 0.000245          | 0.000247    | 0.000282    | 0.000323    | 0.000362    | 0.000402    |
| WDU <b>70</b> / <b>95</b>               | -              | -           | -                 | -           | 0.000182    | 0.000196          | 0.000198    | 0.000223    | 0.000252    | 0.000280    | 0.000309    |
| WDU <b>120</b> / 150                    | -              | -           | -                 | -           | 0.000159    | 0.000170          | 0.000171    | 0.000191    | 0.000215    | 0.000237    | 0.000259    |
| WDU <b>120</b> / <b>150</b>             | -              | -           | -                 | -           | 0.000142    | 0.000151          | 0.000152    | 0.000168    | 0.000187    | 0.000205    | 0.000224    |
| WFF 35                                  | -              | 0.000263    | 0.000299          | 0.000310    | 0.000343    | 0.000383          | 0.000387    | 0.000455    | 0.000535    | 0.000611    | 0.000689    |
| WFF 70                                  | -              | -           | -                 | -           | 0.000185    | 0.000205          | 0.000207    | 0.000242    | 0.000283    | 0.000322    | 0.000362    |
| WFF 120                                 | -              | -           | -                 | -           | 0.000109    | 0.00012           | 0.000121    | 0.000141    | 0.000165    | 0.000187    | 0.000209    |
| WFF 185                                 | -              | -           | -                 | -           | -           | -                 | -           | 0.000098    | 0.000114    | 0.000128    | 0.000143    |
| WFF 300                                 | -              | -           | -                 | -           | -           | -                 | -           | 0.000068    | 0.000077    | 0.000086    | 0.000094    |

## PL Series GRP Enclosures

W' Series and Direct Mounted Terminals in ATEX / IECEx Exe Boxes - PL6 & PL7 Series

| Terminal Type | MAXIMUM PHYSICAL QUANTITY OF TERMINALS           |                                      |              |              |                |  |  |   |
|---------------|--|--------------------------------------|--------------|--------------|----------------|--|--|---|
|               | Enclosure Type                                   |                                      |              |              |                |  |  |   |
|               | PL 612   | PL 615                               | PL 620       | PL 626       | PL 630         |  | PL 712                                 | PL 722                                      |
|               |  |                                      |              |              | 1 diagonal     | 2 vertical                               |  |   |
| WDU 2.5N      | 12 + 1 earth<br>(1 central or offset entry only) | N/A                                  | N/A          | 38 + 1 earth | N/A            | N/A                                      | 12 + 1 earth<br>(1 central entry only) | N/A   |
| WDU 2.5       | 10 + 1 earth<br>(1 offset entry only)            | 14 + 1 earth                         | 24 + 1 earth | 38 + 1 earth | 50 + 1 earth   | 76 + 2 earths<br>(38 + 1 earth per rail) | 10 + 1 earth<br>(1 central entry only) | 35 + 1 earth<br>(No entries on Faces B & D) |
| WDU 4         | 10 + 1 earth<br>(1 offset entry only)            | 12 + 1 earth                         | 20 + 1 earth | 32 + 1 earth | 42 + 1 earth   | 64 + 2 earths<br>(32 + 1 earth per rail) | 10 + 1 earth<br>(1 central entry only) | 29 + 1 earth<br>(No entries on Faces B & D) |
| WDU 6         | 7 + 1 earth<br>(1 offset entry only)             | 9 + 1 earth                          | 15 + 1 earth | 24 + 1 earth | 30 + 1 earth   | 48 + 2 earths<br>(24 + 1 earth per rail) | 7 + 1 earth<br>(1 central entry only)  | 22 + 1 earth<br>(No entries on Faces B & D) |
| WDU 10        | 6 + 1 earth<br>(1 offset entry only)             | 7 + 1 earth                          | 12 + 1 earth | 19 + 1 earth | 25 + 1 earth   | 36 + 2 earths<br>(18 + 1 earth per rail) | 6 + 1 earth<br>(1 central entry only)  | 17 + 1 earth<br>(No entries on Faces B & D) |
| WDU 16        | N/A  | 6 + 1 earth<br>(1 offset entry only) | 9 + 1 earth  | 16 + 1 earth | 20 + 1 earth   | 30 + 2 earths<br>(15 + 1 earth per rail) | N/A                                    | N/A   |
| WDU 35        | N/A  | N/A                                  | 6 + 1 earth  | 12 + 1 earth | 15 + 1 earth   | 22 + 2 earths<br>(11 + 1 earth per rail) | N/A                                    | N/A   |
| WDU 50N       | N/A  | N/A                                  | 5 + 1 earth  | N/A          | 11 + 1 earth   | N/A                                      | N/A                                    | N/A   |
| WDU 70N       | N/A  | N/A                                  | 4 + 1 earth  | N/A          | 11 + 1 earth * | N/A                                      | N/A                                    | N/A   |
| BK 6          | 1  | N/A                                  | N/A          | N/A          | N/A            | N/A                                      | 1                                      | N/A   |
| MK 6/6        | 1  | N/A                                  | N/A          | N/A          | N/A            | N/A                                      | 1                                      | N/A   |
| HTB 6         | 1  | 1                                    | 2            | N/A          | N/A            | N/A                                      | 1                                      | N/A   |

\* Conductor termination difficult, advise 9 + 1 earth

**Notes:** Earths: **PL 612 & PL 712:**

Entries: **PL 612, PL 615, PL 626, PL 712 & PL 722:**

**PL 712:**

Rails: **PL 612, PL 615, PL 620 & PL 712:**

**PL 626 & PL 722:**

**PL 630:**

The rail earths may be replaced by a pillar earth, but a bracket shall be fitted at the end of the terminal stack in its place.

Where the quantity of entries has been restricted, this is due to limited space. If multiple entries are required then the quantity of power terminals shall be reduced accordingly.

It may be possible for some maximum terminal assemblies to use two M20/O entry positions.

1 diagonal rail.

1 horizontal rail.

1 diagonal rail or 2 vertical.

## Eze Series

W' Series Terminals in ATEX / IECEx Exe Boxes - Eze 22, 42 & 62 Series

| Terminal Type | MAXIMUM PHYSICAL QUANTITY OF TERMINALS |                               |                               |
|---------------|--|-------------------------------|-------------------------------|
|               | Enclosure Type                         |                               |                               |
|               | Eze 22                                 | Eze 42                        | Eze 62                        |
| WDU 2.5N      | 76<br>(2 rails, 38 per rail)           | 114<br>(3 rails, 38 per rail) | 190<br>(5 rails, 38 per rail) |
| WDU 2.5       | 38<br>(1 rail only)                    | 114<br>(3 rails, 38 per rail) | 190<br>(5 rails, 38 per rail) |
| WDU 4         | 32<br>(1 rail only)                    | 96<br>(3 rails, 32 per rail)  | 160<br>(5 rails, 32 per rail) |
| WDU 6         | 24<br>(1 rail only)                    | 72<br>(3 rails, 24 per rail)  | 120<br>(5 rails, 24 per rail) |
| WDU 10        | 19<br>(1 rail only)                    | 38<br>(2 rails, 19 per rail)  | 57<br>(3 rails, 19 per rail)  |
| WDU 16        | 16<br>(1 rail only)                    | 32<br>(2 rails, 16 per rail)  | 48<br>(3 rails, 16 per rail)  |
| WDU 35        | 12<br>(1 rail only)                    | 24<br>(2 rails, 12 per rail)  | 36<br>(3 rails, 12 per rail)  |
| WDU 50N       | 9<br>(1 rail only)                     | 20<br>(2 rails, 10 per rail)  | 30<br>(3 rails, 10 per rail)  |

\* If earth terminals are required, the quantity should be taken from the maximum physical terminal quantity.

## EJB Series

W' Series Terminals in ATEX / IECEx Exe Boxes - EJB1 & EJB2

| Terminal Type | MAXIMUM PHYSICAL QUANTITY OF TERMINALS |                     |
|---------------|--|---------------------|
|               | Enclosure Type                         |                     |
|               | EJB1                                   | EJB2                |
| WDU 2.5N      | 12<br>(1 rail only)                    | 18<br>(1 rail only) |
| WDU 2.5       | 12<br>(1 rail only)                    | 18<br>(1 rail only) |
| WDU 4         | 10<br>(1 rail only)                    | 15<br>(1 rail only) |
| WDU 6         | 7<br>(1 rail only)                     | 11<br>(1 rail only) |
| WDU 10        | 6<br>(1 rail only)                     | 9<br>(1 rail only)  |
| WDU 16        | N/A                                    | 7<br>(1 rail only)  |

## S Series GRP Enclosures

W' Series Terminals in ATEX / IECEx Exe Boxes - Size 1 (S1) to Size 9 (S9) Series

### MAXIMUM PHYSICAL QUANTITY OF TERMINALS

| Terminal Type | Enclosure Type      |                              |                               |                               |                               |                               |                               |                                |                                |                                |                                 |
|---------------|---------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|
|               | Size 1 (S1)         | Size 2 (S2)                  | Size 2 Long (S2L)             | Size 3 (S3)                   | Size 4 (S4)                   | Size 4 Long (S4L)             | Size 5 (S5)                   | Size 6 (S6)                    | Size 7 (S7)                    | Size 8 (S8)                    | Size 9 (S9)                     |
| WDU 2.5       | 30<br>(1 rail only) | 78<br>(2 rails, 39 per rail) | 117<br>(3 rails, 39 per rail) | 126<br>(2 rails, 63 per rail) | 189<br>(3 rails, 63 per rail) | 252<br>(4 rails, 63 per rail) | 249<br>(3 rails, 83 per rail) | 416<br>(4 rails, 104 per rail) | 640<br>(5 rails, 128 per rail) | 912<br>(6 rails, 152 per rail) | 1232<br>(7 rails, 176 per rail) |
| WDU 4         | 25<br>(1 rail only) | 50<br>(2 rails, 25 per rail) | 75<br>(3 rails, 25 per rail)  | 94<br>(2 rails, 47 per rail)  | 141<br>(3 rails, 47 per rail) | 188<br>(4 rails, 47 per rail) | 192<br>(3 rails, 64 per rail) | 320<br>(4 rails, 80 per rail)  | 515<br>(5 rails, 110 per rail) | 720<br>(6 rails, 120 per rail) | 980<br>(7 rails, 140 per rail)  |
| WDU 6         | 19<br>(1 rail only) | 42<br>(2 rails, 21 per rail) | 63<br>(3 rails, 21 per rail)  | 72<br>(2 rails, 36 per rail)  | 108<br>(3 rails, 36 per rail) | 144<br>(4 rails, 36 per rail) | 144<br>(3 rails, 48 per rail) | 240<br>(4 rails, 60 per rail)  | 380<br>(5 rails, 76 per rail)  | 540<br>(6 rails, 90 per rail)  | 735<br>(7 rails, 105 per rail)  |
| WDU 10        | 15<br>(1 rail only) | 36<br>(2 rails, 18 per rail) | 54<br>(3 rails, 18 per rail)  | 56<br>(2 rails, 28 per rail)  | 84<br>(3 rails, 28 per rail)  | 112<br>(4 rails, 28 per rail) | 120<br>(3 rails, 40 per rail) | 200<br>(4 rails, 50 per rail)  | 300<br>(5 rails, 60 per rail)  | 438<br>(6 rails, 73 per rail)  | 595<br>(7 rails, 85 per rail)   |
| WDU 16        | 13<br>(1 rail only) | 28<br>(2 rails, 14 per rail) | 42<br>(3 rails, 14 per rail)  | 48<br>(2 rails, 24 per rail)  | 72<br>(3 rails, 24 per rail)  | 96<br>(4 rails, 24 per rail)  | 96<br>(3 rails, 32 per rail)  | 160<br>(4 rails, 40 per rail)  | 250<br>(5 rails, 50 per rail)  | 360<br>(6 rails, 60 per rail)  | 490<br>(7 rails, 70 per rail)   |
| WDU 35        | 9<br>(1 rail only)  | 20<br>(2 rails, 10 per rail) | 30<br>(3 rails, 10 per rail)  | 36<br>(2 rails, 18 per rail)  | 54<br>(3 rails, 18 per rail)  | 72<br>(4 rails, 18 per rail)  | 72<br>(3 rails, 24 per rail)  | 120<br>(4 rails, 30 per rail)  | 190<br>(5 rails, 38 per rail)  | 270<br>(6 rails, 45 per rail)  | 371<br>(7 rails, 53 per rail)   |
| WDU 50N       | N/A                 | 16<br>(2 rails, 8 per rail)  | 24<br>(2 rails, 12 per rail)  | 28<br>(2 rails, 14 per rail)  | 42<br>(3 rails, 16 per rail)  | 60<br>(4 rails, 15 per rail)  | 56<br>(3 rails, 14 per rail)  | 96<br>(4 rails, 24 per rail)   | 155<br>(5 rails, 31 per rail)  | 216<br>(6 rails, 36 per rail)  | 308<br>(7 rails, 44 per rail)   |
| WDU 70N       | N/A                 | 8<br>(1 rail only)           | 16<br>(2 rails, 8 per rail)   | 14<br>(1 rail only)           | 30<br>(2 rails, 15 per rail)  | 45<br>(3 rails, 15 per rail)  | 40<br>(2 rails, 20 per rail)  | 50<br>(2 rails, 25 per rail)   | 93<br>(3 rails, 31 per rail)   | 108<br>(3 rails, 36 per rail)  | 172<br>(4 rails, 43 per rail)   |
| WDU 70 / 95   | N/A                 | N/A                          | N/A                           | N/A                           | 11<br>(1 rail only)           | 11 *<br>(1 rail only)         | 15 *<br>(1 rail only)         | 19 *<br>(1 rail only)          | 23 *<br>(1 rail only)          | 56 *<br>(2 rails, 28 per rail) | 64 *<br>(2 rails, 32 per rail)  |
| WDU 120 / 150 | N/A                 | N/A                          | N/A                           | N/A                           | 9 *<br>(1 rail only)          | 9 *<br>(1 rail only)          | 12 *<br>(1 rail only)         | 16 *<br>(1 rail only)          | 20 *<br>(1 rail only)          | 46 *<br>(2 rails, 23 per rail) | 54 *<br>(2 rails, 27 per rail)  |
| WFF 35        | N/A                 | 6<br>(1 rail only)           | 6 *<br>(1 rail only)          | 11<br>(1 rail only)           | 11 *<br>(1 rail only)         | 22 *<br>(2 rails)             | 15 *<br>(1 rail only)         | 38 *<br>(2 rails, 19 per rail) | 46 *<br>(2 rails, 23 per rail) | 84 *<br>(3 rails, 28 per rail) | 96 *<br>(3 rails, 32 per rail)  |
| WFF 70        | N/A                 | N/A                          | N/A                           | N/A                           | 9 *<br>(1 rail only)          | 9 *<br>(1 rail only)          | 12 *<br>(1 rail only)         | 16 *<br>(1 rail only)          | 40 *<br>(2 rails, 20 per rail) | 46 *<br>(2 rails, 23 per rail) | 81 *<br>(3 rails, 27 per rail)  |
| WFF 120       | N/A                 | N/A                          | N/A                           | N/A                           | 7 *<br>(1 rail only)          | 7 *<br>(1 rail only)          | 9 *<br>(1 rail only)          | 12 *<br>(1 rail only)          | 15 *<br>(1 rail only)          | 36 *<br>(2 rails, 18 per rail) | 42 *<br>(2 rails, 21 per rail)  |
| WFF 185       | N/A                 | N/A                          | N/A                           | N/A                           | N/A                           | N/A                           | N/A                           | 9 *<br>(1 rail only)           | 11 *<br>(1 rail only)          | 13 *<br>(1 rail only)          | 32 *<br>(2 rails, 16 per rail)  |
| WFF 300       | N/A                 | N/A                          | N/A                           | N/A                           | N/A                           | N/A                           | N/A                           | 9 *<br>(1 rail only)           | 11 *<br>(1 rail only)          | 13 *<br>(1 rail only)          | 32 *<br>(2 rails, 16 per rail)  |

\* If earth terminals are required, the quantity should be taken from the maximum physical terminal quantity.

Notes: Earths: Size 1 (S1) to Size 9 (S9) When rail earths are required, the power terminals shall be reduced accordingly. Internal / external earth stud is suitable for conductors up to 75mm<sup>2</sup>. For larger conductors, contact Hawke International.

Rails: Size 1 (S1) to Size 9 (S9) If 'WFF' terminals are required with 'TW' partitions, then the box size and / or rail quantity may change due to the large width of these partitions.

Box Size: Size 1 (S1) to Size 9 (S9) WFF' series terminals shall be fitted in 210 deep enclosures.

WDU 50N, WDU 70N, WDU 70/95, WDU 120/150 and all WFF series terminals are fitted on 'heavy duty' rail.

TABLE OF EARTHS

| Manufacturer | Earth Terminal                  | Conductor Size (mm <sup>2</sup> ) |                       | Power Terminal   | Earth Terminal Fixing        |
|--------------|---------------------------------|-----------------------------------|-----------------------|--|------------------------------|
|              |                                 | Min.                              | Max.                  |  |                              |
| Weidmuller   | WPE 2.5N                        | 0.5                               | 2.5                   | WDU 2.5N   | Rail Mounted                 |
| Weidmuller   | WPE 2.5                         | 0.5                               | 2.5                   | WDU 2.5N & WDU 2.5   | Rail Mounted                 |
| Weidmuller   | WPE 4                           | 0.5                               | 4                     | WDU 2.5 & WDU 4  | Rail Mounted                 |
| Weidmuller   | WPE 6                           | 0.5                               | 6                     | WDU 6  | Rail Mounted                 |
| Weidmuller   | WPE 10                          | 1.5                               | 10                    | WDU 10   | Rail Mounted                 |
| Weidmuller   | WPE 16                          | 1.5                               | 16                    | WDU 16   | Rail Mounted                 |
| Weidmuller   | WPE 35                          | 2.5                               | 35                    | WDU 35 & WFF 35  | Rail Mounted                 |
| Weidmuller   | WPE 50N                         | 2.5                               | 50                    | WDU 50N  | Rail Mounted                 |
| Weidmuller   | WPE 70N                         | 10                                | 70                    | WDU 70N & WFF 70   | Rail Mounted                 |
| Weidmuller   | WPE 70 / 95                     | 16                                | 95                    | WDU 70 / 95  | Rail Mounted                 |
| Weidmuller   | WPE 120 / 150                   | 35                                | 120                   | WDU 120 / 150 & WFF 120                                    | Rail Mounted                 |
| Hawke        | PET 5<br>(Pillar Earth)         | 0.5                               | 10                    | WDU 2.5N to WDU 10, HTB 6,<br>MK 6/6 & BK 6                | Direct Mounted               |
| Hawke        | IES 10<br>(Int/Ext. Earth Stud) | 0.5                               | 10                    | With Power terminals, up to<br>10mm <sup>2</sup> max. only | M20 / A Gland Entry Position |
| WECO         | DFG / 2<br>(Pillar Earth)       | 0.5                               | 6 solid<br>4 stranded | PL 612 - without an earth<br>continuity plate              | Direct Mounted               |

**Note:** The junction box shall be fitted with an internal earth terminal stud that is capable of accepting a conductor equal to that of the largest power terminal. The IEC 10 internal / external earth stud shall NOT foul on any components inside the box.