

# JUNCTION BOXES

series  
**S**

|            |      |       |      |                            |                    |
|------------|------|-------|------|----------------------------|--------------------|
| Protection | Gas  | Zone  | 1-2  | II2G                       | Ex db IIC T6÷T4 Gb |
|            | Dust | 21-22 | II2D | Ex tb IIIC T85°C÷T135°C Db |                    |

|                      |         |
|----------------------|---------|
| Degree of Protection | IP66/67 |
|----------------------|---------|

|            |          |       |       |
|------------|----------|-------|-------|
| Amb. Temp. | Standard | -20°C | +40°C |
|            | Extended | -50°C | +85°C |



|                   |                |
|-------------------|----------------|
| Entries Threading | NPT ANSI B1.20 |
|-------------------|----------------|

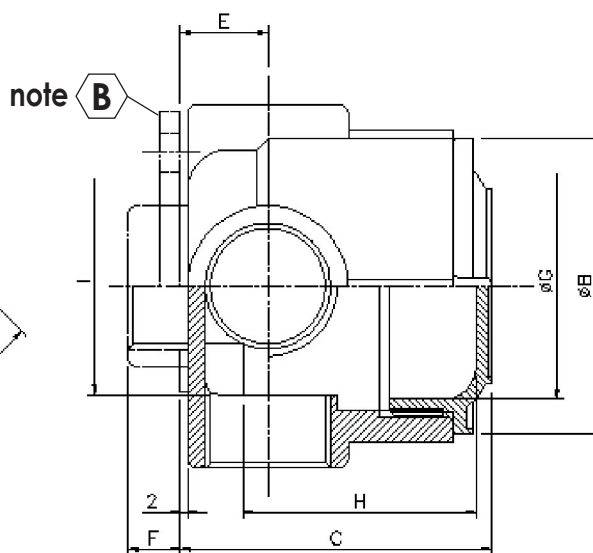
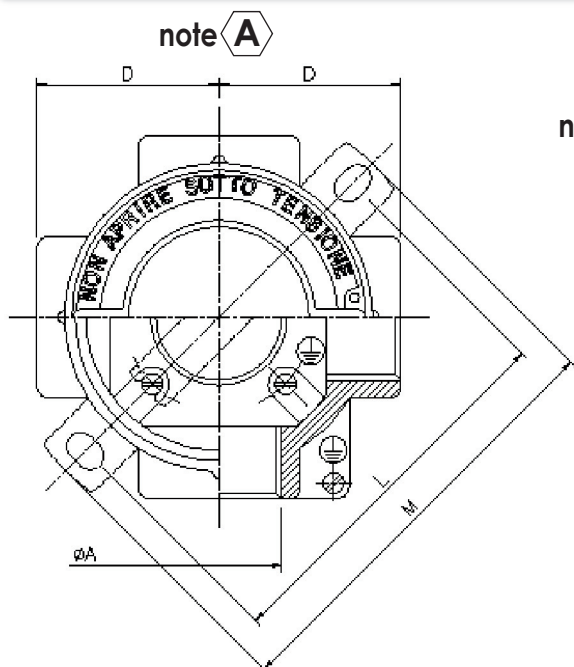
|          |                      |
|----------|----------------------|
| Material | Aluminum Light Alloy |
|----------|----------------------|

|          |             |
|----------|-------------|
| Painting | See Options |
|----------|-------------|

|                            |                                          |
|----------------------------|------------------------------------------|
| Standards and Certificates | Directive 2014/34/EU (ATEX)              |
|                            | EN 60079-0 • EN 60079-1 • EN 60079-31    |
|                            | CE BVI 14 ATEX 0068X                     |
|                            | U BVI 14 ATEX 0067U                      |
| IECEx                      | IEC 60079-0 • IEC 60079-1 • IEC 60079-31 |
|                            | IECEx EPS 14.0086X                       |
|                            | IECEx EPS 14.0087U                       |

- Ideal for routing and interconnecting the wires at the intersection of the conduits.
- Supplied with rough surface or outside painted according to customer specifications
- Certificated either for the version complete with electrical apparatus or empty as an Ex component.

|         |                                                                    |                                                 |                                        |
|---------|--------------------------------------------------------------------|-------------------------------------------------|----------------------------------------|
| Options | - Terminal block: slatted terminals = MH<br>modular terminals = MM | - Cable entries threading: Metric ISO 262 (M).  | - Anti-corrosion technology: ALUMINOX. |
|         |                                                                    | - External Painting: on customer specification. | - Accessories (see page B07).          |



## NOTES

**A.** The drawing is valid for dimensional data only. For further details, such as the orientation of the internal / external joints, there might be differences among the different models.

**B.** See page B07.

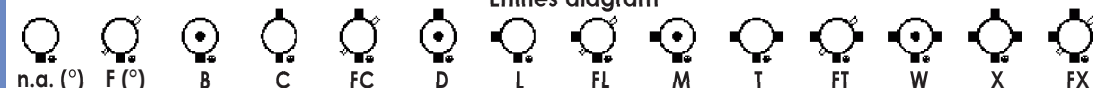
(°): Diameter refers to the diagram for single entry only (see diagrams in the table).

The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box (see page B8).

The extended A.T. is -40°C÷+85°C for boxes with EPDM O-Ring (temperature class T6/T5). The extended A.T. is -50°C÷+85°C for boxes with Silicone O-Ring (temperature class T6/T5/T4).

Further information on first page (B01).

## Entries diagram



| Type | Size | ØA<br>[NPT]       | External dimensions<br>(mm) |     |    |    |    | Internal Dimensions<br>(mm) |    |     | SF...<br>Mounting Bracket |     | Weight<br>(g) |
|------|------|-------------------|-----------------------------|-----|----|----|----|-----------------------------|----|-----|---------------------------|-----|---------------|
|      |      |                   | ØB                          | C   | D  | E  | F  | ØG                          | H  | I   | L                         | M   |               |
| S    | 14   | 1/2"              | 70                          | 77  | 40 | 20 | 9  | 51                          | 49 | 51  | 87                        | 105 | 350           |
| S    | 16   | 1/2"              | 90                          | 78  | 50 | 20 | 8  | 70                          | 49 | 70  | 108                       | 126 | 440           |
| S    | 24   | 3/4"              | 70                          | 77  | 40 | 20 | 9  | 51                          | 49 | 51  | 87                        | 105 | 320           |
| S    | 26   | 3/4"              | 90                          | 78  | 50 | 20 | 8  | 70                          | 49 | 70  | 108                       | 126 | 440           |
| S    | 236  | 3/4"              | 90                          | 86  | 50 | 23 | 8  | 70                          | 57 | 70  | 108                       | 126 | 480           |
| S    | 36   | 1"                | 90                          | 86  | 50 | 23 | 8  | 70                          | 57 | 70  | 108                       | 126 | 480           |
| S    | 47   | 1.1/4"            | 130                         | 112 | 69 | 32 | 14 | 103                         | 80 | 98  | 143                       | 161 | 1260          |
| S    | 57   | 3/4" (°) - 1.1/2" | 130                         | 113 | 75 | 32 | 14 | 103                         | 80 | 98  | 143                       | 161 | 1190          |
| S    | 69   | 1" (°) - 2"       | 145                         | 126 | 83 | 36 | 14 | 118                         | 90 | 112 | 156                       | 176 | 1410          |

## Example: SC 36 MH2-6

Order Coding

Type  
**S**

Diagram  
**C**

Size  
**36**

Terminal Block Type  
**MH**

Terminal Dimension  
**2**

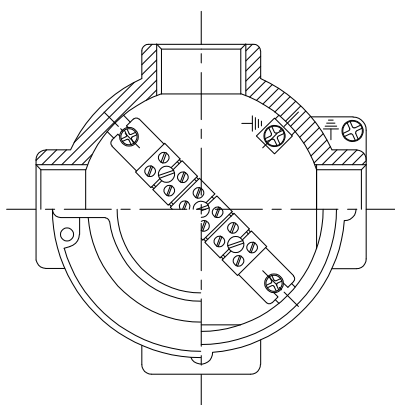
Number of terminals  
**6**



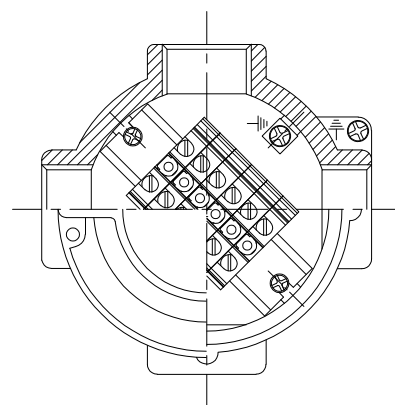
## NOTES

The data given in the tables are for guidance only.

Terminals type and sections other than those specified may be used providing their compliance with the maximum dissipated power as indicated on page B08.



TERMINAL BLOCKS MH



TERMINAL BLOCKS MM

| Model     | Terminal Blocks   |
|-----------|-------------------|
| <b>MH</b> | Slatted Terminals |
| <b>MM</b> | Modular Terminals |

| TERMINAL BLOCKS for JUNCTION BOXES Size ...14 - ...24 |                            |         |
|-------------------------------------------------------|----------------------------|---------|
| Model                                                 | Section (mm <sup>2</sup> ) | Max No. |
| MH 1-5                                                | 1.5                        | 5       |
| MH 2-4                                                | 2.5                        | 4       |
| MH 4-4                                                | 4                          | 4       |
| MH 6-3                                                | 6                          | 3       |
| MM 1-5                                                | 1.5                        | 5       |
| MM 2-5                                                | 2.5                        | 5       |
| MM 4-4                                                | 4                          | 4       |

| TERMINAL BLOCKS for JUNCTION BOXES Size ...26 - ...36 |                            |         |
|-------------------------------------------------------|----------------------------|---------|
| Model                                                 | Section (mm <sup>2</sup> ) | Max No. |
| MH 1-7                                                | 1.5                        | 7       |
| MH 2-6                                                | 2.5                        | 6       |
| MH 4-6                                                | 4                          | 6       |
| MH 6-5                                                | 6                          | 5       |
| MM 1-8                                                | 1.5                        | 8       |
| MM 2-8                                                | 2.5                        | 8       |
| MM 4-7                                                | 4                          | 7       |

| TERMINAL BLOCKS for JUNCTION BOXES Size ...47 - ...57 |                            |         |
|-------------------------------------------------------|----------------------------|---------|
| Model                                                 | Section (mm <sup>2</sup> ) | Max No. |
| MM 2-9                                                | 2.5                        | 9       |
| MM 4-8                                                | 4                          | 8       |
| MM 6-6                                                | 6                          | 6       |
| MM 10-6                                               | 10                         | 6       |
| MM 16-5                                               | 16                         | 5       |
| MM 2-12                                               | 2.5                        | 12      |
| MM 35-3                                               | 35                         | 3       |
| MM 4-10                                               | 4                          | 10      |
| MM 6-8                                                | 6                          | 8       |

| TERMINAL BLOCKS for JUNCTION BOXES Size ...69 |                            |         |
|-----------------------------------------------|----------------------------|---------|
| Model                                         | Section (mm <sup>2</sup> ) | Max No. |
| MM 2-10                                       | 2.5                        | 10      |
| MM 4-10                                       | 4                          | 10      |
| MM 6-8                                        | 6                          | 8       |
| MM 10-8                                       | 10                         | 8       |
| MM 16-6                                       | 16                         | 6       |
| MM 2-14                                       | 2.5                        | 14      |
| MM 35-4                                       | 35                         | 4       |
| MM 4-12                                       | 4                          | 12      |
| MM 6-10                                       | 6                          | 10      |

# BOXES for EQUIPMENT and INSTRUMENTS

series  
**S**

|            |      |       |      |                            |                    |
|------------|------|-------|------|----------------------------|--------------------|
| Protection | Gas  | Zone  | 1-2  | II2G                       | Ex db IIC T6÷T4 Gb |
|            | Dust | 21-22 | II2D | Ex tb IIIC T85°C÷T135°C Db |                    |

|                      |         |
|----------------------|---------|
| Degree of Protection | IP66/67 |
|----------------------|---------|

|            |          |       |       |
|------------|----------|-------|-------|
| Amb. Temp. | Standard | -20°C | +40°C |
|            | Extended | -50°C | +85°C |



|                   |                |
|-------------------|----------------|
| Entries Threading | NPT ANSI B1.20 |
|-------------------|----------------|

|          |                      |
|----------|----------------------|
| Material | Aluminum Light Alloy |
|----------|----------------------|

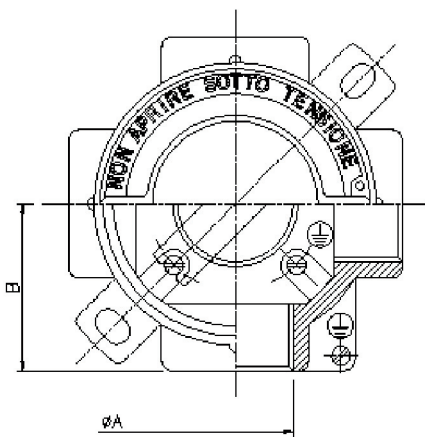
|          |                         |
|----------|-------------------------|
| Painting | External epoxy RAL 7000 |
|----------|-------------------------|

|                            |                                          |
|----------------------------|------------------------------------------|
| Standards and Certificates | Directive 2014/34/EU (ATEX)              |
|                            | EN 60079-0 • EN 60079-1 • EN 60079-31    |
|                            | CE BVI 14 ATEX 0068X                     |
|                            | U BVI 14 ATEX 0067U                      |
| IECEx                      | IEC 60079-0 • IEC 60079-1 • IEC 60079-31 |
|                            | IECEx EPS 14.0086X                       |
|                            | IECEx EPS 14.0087U                       |

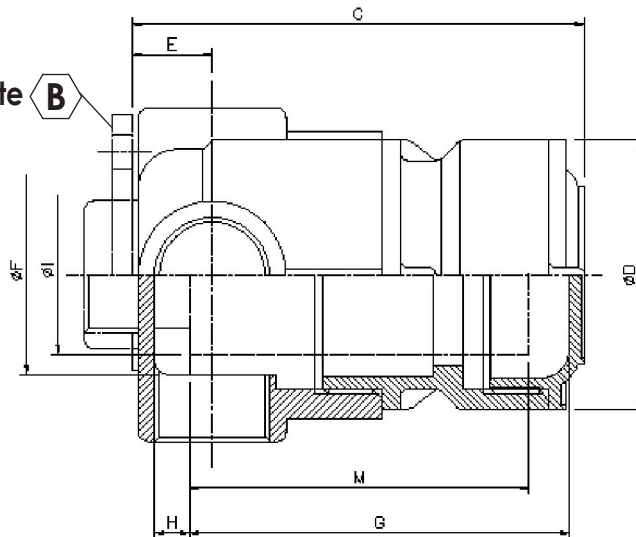
- Suitable for electrical/electronic equipment and instruments.
- Standard or extended depth by adding one of the extensions (short or long).
- Supplied with rough surface or outside painted according to customer specifications.
- Certificated either for the version complete with electrical apparatus or empty as an Ex component.

|         |                                              |                                        |                                                    |
|---------|----------------------------------------------|----------------------------------------|----------------------------------------------------|
| Options | - Cable entry threading: METRIC ISO 262 (M). | - Anti-corrosion technology: ALUMINOX. | - Apparatus mounted inside the box (see page B10). |
|         | - Different RAL colours.                     | - Accessories (see page B07).          |                                                    |

note **A**



note **B**



## NOTES

**A.** The drawing is valid for dimensional data only.  
For further details, such as the orientation of the internal / external joints, there might be differences among the different models.

**B.** See page B07.

(°): Diameter refers to the diagram for single entry only (see diagrams in the table).

(\*) Data refer to boxes with no extension, with short and long extension respectively.

The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box.

The extended A.T. is -40°C÷+85°C for boxes with EPDM O-Ring (temperature class T6/T5). The extended A.T. is -50°C÷+85°C for boxes with Silicone O-Ring (temperature class T6/T5/T4).

More information on first page (B01).

## Entries Diagram

| Emres Diagram |      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|---------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|               |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|               |      | n.a. (°)                                                                            | F (°)                                                                               | B                                                                                   | C                                                                                   | FC                                                                                  | D                                                                                   | L                                                                                   | FL                                                                                  | M                                                                                   | T                                                                                   | FT                                                                                  | W                                                                                     | X                                                                                     | FX                                                                                    |
| Type          | Size | ØA<br>[NPT]                                                                         | External Dimensions<br>(mm)                                                         |                                                                                     |                                                                                     |                                                                                     | Internal Dimensions<br>(mm)                                                         |                                                                                     |                                                                                     | Electrical<br>Apparatus (mm)                                                        |                                                                                     | Max<br>dissipated<br>Power                                                          | Weight (*)<br>(g)                                                                     |                                                                                       |                                                                                       |
|               |      |                                                                                     | B                                                                                   | C(*)                                                                                | D                                                                                   | E                                                                                   | ØF                                                                                  | G(*)                                                                                | H                                                                                   | ØI                                                                                  | M                                                                                   |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
| S             | 14   | 1/2"                                                                                | 40                                                                                  | 61 / 121                                                                            | 70                                                                                  | 20                                                                                  | 48                                                                                  | 47 / 105                                                                            | 8                                                                                   | 44                                                                                  | 45 / 103                                                                            | See Table<br>on page.<br>B8                                                         | 310/610                                                                               |                                                                                       |                                                                                       |
| S             | 24   | 3/4"                                                                                | 40                                                                                  | 61 / 121                                                                            | 70                                                                                  | 20                                                                                  | 48                                                                                  | 47 / 105                                                                            | 8                                                                                   | 44                                                                                  | 45 / 103                                                                            |                                                                                     | 265/565                                                                               |                                                                                       |                                                                                       |
| S             | 26   | 3/4"                                                                                | 50                                                                                  | 66 / 121 / 141                                                                      | 90                                                                                  | 20                                                                                  | 68                                                                                  | 47 / 105 / 125                                                                      | 8                                                                                   | 64                                                                                  | 45 / 103 / 123                                                                      |                                                                                     | 420/710/780                                                                           |                                                                                       |                                                                                       |
| S             | 36   | 1"                                                                                  | 50                                                                                  | 73 / 128 / 148                                                                      | 90                                                                                  | 23                                                                                  | 68                                                                                  | 57 / 113 / 133                                                                      | 8                                                                                   | 64                                                                                  | 55 / 111 / 131                                                                      |                                                                                     | 450/740/810                                                                           |                                                                                       |                                                                                       |
| S             | 57   | 3/4"(°) - 1.1/2"                                                                    | 75                                                                                  | 93 / 155 / 185                                                                      | 130                                                                                 | 32                                                                                  | 100                                                                                 | 78 / 140 / 170                                                                      | 8                                                                                   | 96                                                                                  | 76 / 138 / 168                                                                      |                                                                                     | 1090/1650/1830                                                                        |                                                                                       |                                                                                       |
| S             | 69   | 1"(°) - 2"                                                                          | 83                                                                                  | 104 / 165 / 205                                                                     | 145                                                                                 | 36                                                                                  | 112                                                                                 | 91 / 150 / 190                                                                      | 9                                                                                   | 106                                                                                 | 89 / 148 / 188                                                                      |                                                                                     | 1400/1980/2220                                                                        |                                                                                       |                                                                                       |

## Example: SC 36/113

Order Coding

Type  
**S**

Diagram  
**C**

Size  
**36**

Inside depth G (with extension only)  
**113**

Cable entries threading if different from std. (NPT)  
**M = Metric**

