

# JUNCTION BOXES

series  
**S**

|            |      |      |       |      |                            |
|------------|------|------|-------|------|----------------------------|
| Protection | Gas  | Zone | 1-2   | II2G | Ex d IIC T6÷T4 Gb          |
|            | Dust | Zone | 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**

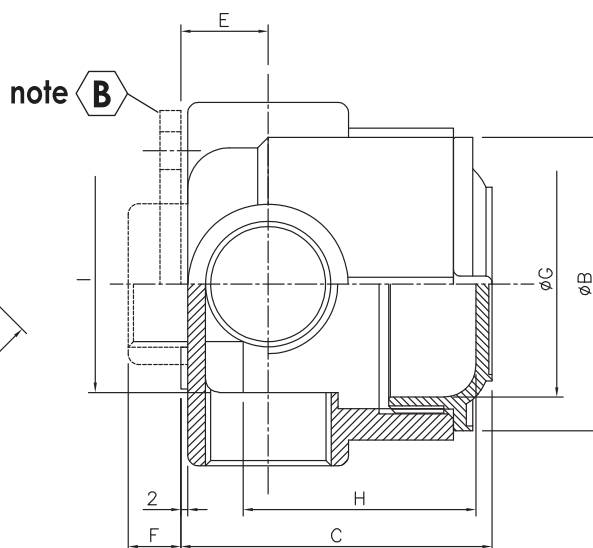
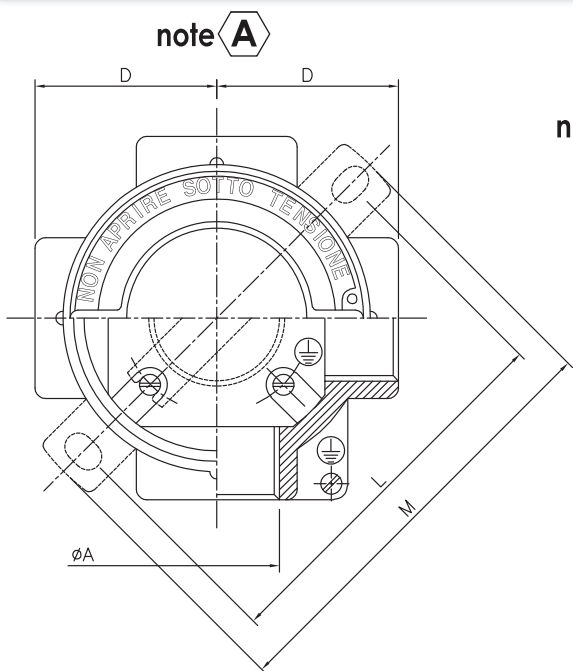
Material  
**Aluminum Light Alloy**

Painting  
**See Options**

|          |  |  |  |
|----------|--|--|--|
|          | <b>Directive 2014/34/EU (ATEX)</b>       |  |  |
|          | EN 60079-0 • EN 60079-1 • EN 60079-31    |  |  |
|          | <b>BVI 14 ATEX 0068X</b>                 |  |  |
| <b>U</b> | <b>BVI 14 ATEX 0067U</b>                 |  |  |
|          | IEC 60079-0 • IEC 60079-1 • IEC 60079-31 |  |  |
|          | <b>IECEx EPS 14.0086X</b>                |  |  |
|          | <b>IECEx EPS 14.0087U</b>                |  |  |

- 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 [NPT]          | External dimensions (mm) |     |    |    |    | Internal Dimensions (mm) |    |     |     | SF... Mounting Bracket |      | Weight (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**

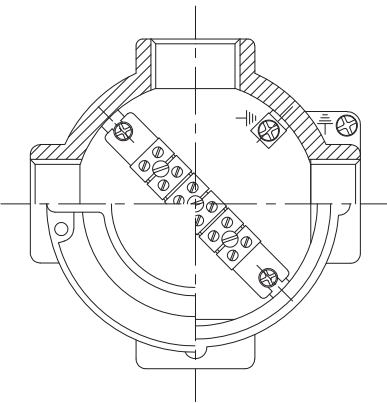
Number of terminals  
**6**



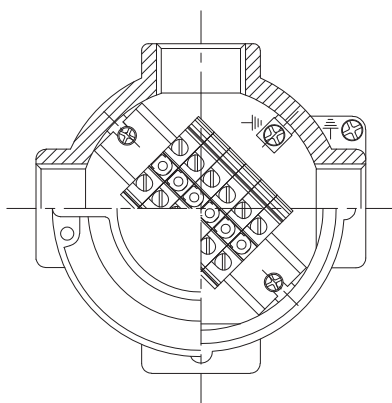
## NOTES

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   |
|-------|-------------------|
| MH    | Slatted Terminals |
| MM    | 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  | 1-2   | II2G | Ex d 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

IEC 60079-0 • IEC 60079-1 • IEC 60079-31

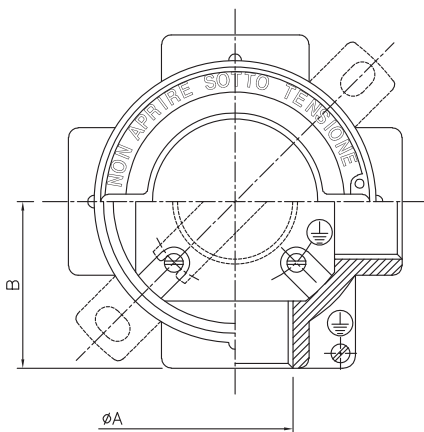
IECEx EPS 14.0086X

IECEx EPS 14.0087U

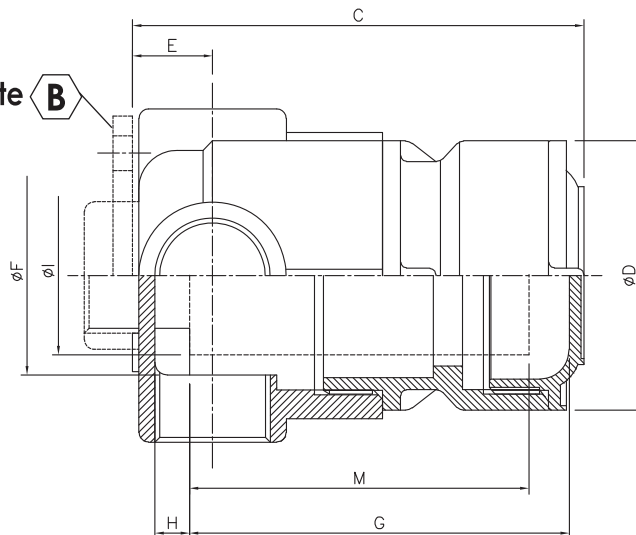
- Suitable for electrical/electronic equipment and instruments.
- Standard or extended depth by adding one of the extensions (short or long).
- Supplied with rough surface or outside painted according to customer specifications.
- Certificated either for the version complete with electrical apparatus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

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

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).

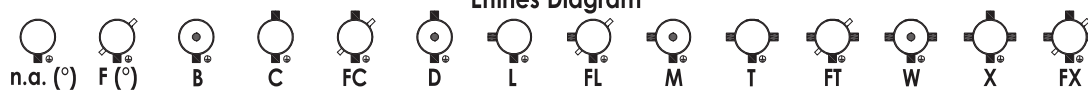
(\*) Data refer to boxes with no extension, with short and long extension respectively.

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



| Type | Size | ØA [NPT]          | External Dimensions (mm) |                 |     |    | Internal Dimensions (mm) |                |   |     | Electrical Apparatus (mm) |                       | Max dissipated Power | Weight (*) (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 on page. 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**



# BOXES for EQUIPMENT and INSTRUMENTS

series  
**SO**

|            |      |      |       |      |                            |
|------------|------|------|-------|------|----------------------------|
| Protection | Gas  | Zone | 1-2   | II2G | Ex d IIC T6÷T4 Gb          |
|            | Dust | Zone | 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 |



|  |  |
|--|--|
| IEC 60079-0 • IEC 60079-1 • IEC 60079-31 |  |
| IECEX EPS 14.0086X                       |  |
| IECEX EPS 14.0087U                       |  |

- Screw cap with heat-resistant tempered glass and O-ring which ensures both IP66/67 protection and protection against dusts (2D).
- 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).          |  |

## 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.

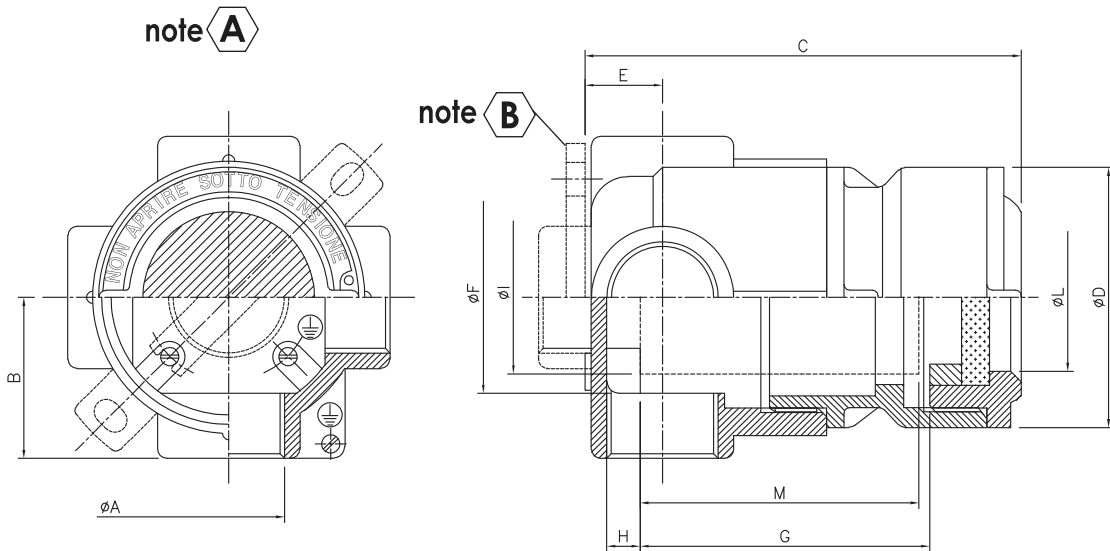
(°): Diameter refers to the diagram for single entry only (see diagrams in the table).

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

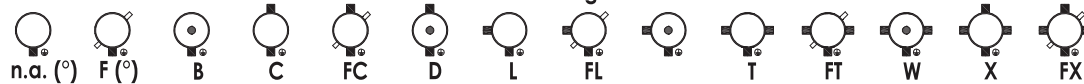
The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box.

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



| Type  | Size           | ØA [NPT] | External Dimensions (mm) |       |    | Internal Dimensions (mm) |                |       | Electrical Apparatus (mm) | Max Dissipated Power | Opening ØL        | Weight (*) (g) |         |
|-------|----------------|----------|--------------------------|-------|----|--------------------------|----------------|-------|---------------------------|----------------------|-------------------|----------------|---------|
|       |                |          | B                        | C (*) | ØD | E                        | ØF             | G (*) |                           |                      |                   |                | H       |
| SO 14 | 1/2"           | 40       | 61 / 121                 | 70    | 20 | 48                       | 24 / 84        | 8     | 44                        | 22 / 82              | See table page B8 | 38             | 415/715 |
| SO 24 | 3/4"           | 40       | 61 / 121                 | 70    | 20 | 48                       | 24 / 84        | 8     | 44                        | 22 / 82              |                   | 38             | 390/690 |
| SO 26 | 3/4"           | 50       | 66 / 121 / 141           | 90    | 20 | 68                       | 25 / 85 / 100  | 8     | 64                        | 23 / 78 / 98         | 50                | 525/815/885    |         |
| SO 36 | 1"             | 50       | 73 / 128 / 148           | 90    | 23 | 68                       | 32 / 87 / 107  | 8     | 64                        | 30 / 85 / 105        | 50                | 570/860/930    |         |
| SO 57 | 3/4"(*)-1.1/2" | 75       | 100 / 155 / 185          | 130   | 32 | 100                      | 48 / 110 / 140 | 8     | 96                        | 46 / 108 / 138       | 83                | 1305/1865/2045 |         |
| SO 69 | 1"(*)-2"       | 83       | 104 / 165 / 205          | 145   | 36 | 112                      | 54 / 115 / 155 | 9     | 106                       | 52 / 113 / 153       | 96                | 1635/2215/2455 |         |

## Example: SOC 36/87

|              |      |         |      |  |  |
|--------------|------|---------|------|--|--|
| Order Coding | Type | Diagram | Size | Internal Depth G (with extension only) | Cable entries threading if different from std. (NPT) |
|              | SO   | C       | 36   | 87                                     | M = Metric   |



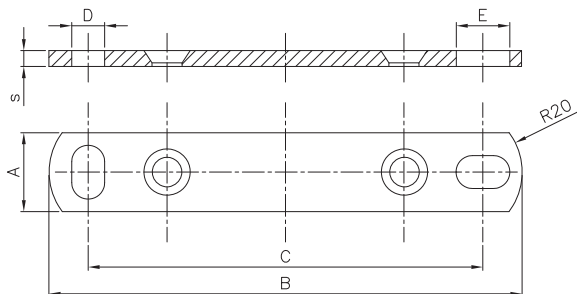
# ACCESSORIES for JUNCTION BOXES

series  
**S**  
**SO**

## EXTERNAL BRACKET KF for Series SF... - SOF...

Options

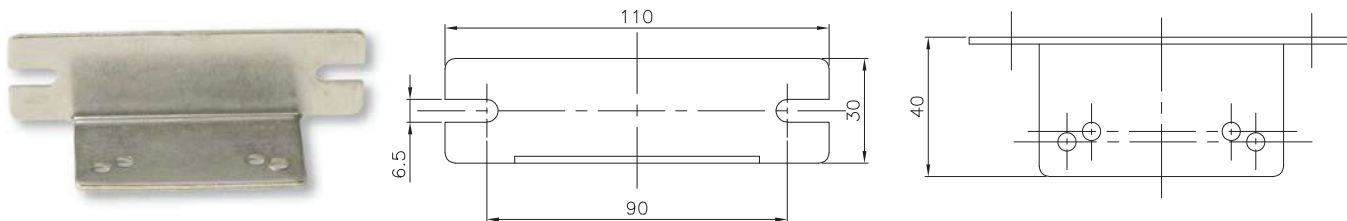
Materials: - Aluminum and relevant screws in galvanized Steel (suffix "A"),  
- Stainless Steel AISI 316 and relevant screws in Stainless Steel (suffix "I").



| Order Code          | Box Size     | Dimensions (mm) |     |     |     |    |   | Weight (g) |        |
|---------------------|--------------|-----------------|-----|-----|-----|----|---|------------|--------|
|                     |              | A               | B   | C   | D   | E  | S | KF...A     | KF...I |
| <b>KF 4A / KF4I</b> | 14/24        | 18              | 105 | 87  | 6,5 | 10 | 3 | 12         | 36     |
| <b>KF 6A / KF6I</b> | 16/26/36/236 | 18              | 126 | 108 | 6,5 | 10 | 3 | 15         | 45     |
| <b>KF 7A / KF7I</b> | 47/57        | 20              | 162 | 142 | 7   | 11 | 4 | 32         | 96     |
| <b>KF 9A / KF9I</b> | 69           | 20              | 176 | 156 | 7   | 11 | 4 | 35         | 105    |

## EXTERNAL BRACKET KE 46I for Series S... - SL... - ST... - SO... - SOL... - SOT...

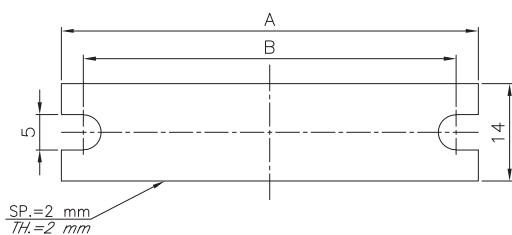
Material: Stainless Steel AISI 316. For Junction Boxes Size 14-24 and 16-26-36 only



**KE 46I**

## INTERNAL PLATE for Series S... - SF...

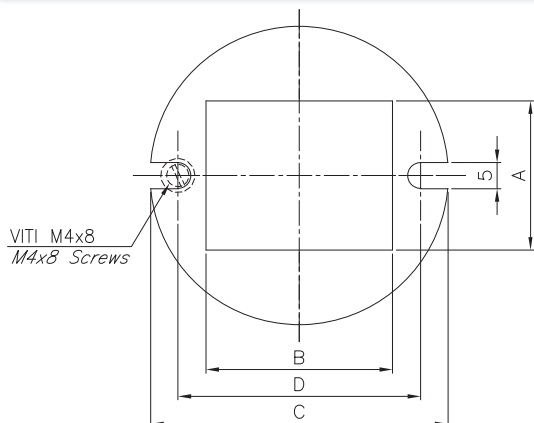
Material: Aluminum



| Order Code  | Box size | Dimensions (mm) |     | Weight (g) |
|-------------|----------|-----------------|-----|------------|
|             |          | A               | B   |            |
| <b>KS 4</b> | 14/24    | 52              | 44  | 10         |
| <b>KS 6</b> | 26/36    | 70              | 63  | 12         |
| <b>KS 7</b> | 47/57    | 100             | 93  | 22         |
| <b>KS 9</b> | 69       | 110             | 102 | 24         |

## KIT for INSTRUMENT MOUNTING into Series S... / SO...

Material: galvanized Steel Painted Black (RAL 9005).



| Order Code    | Box Size      | Tab Dimensions (mm) | Dimensions (mm) |    |     |     |
|---------------|---------------|---------------------|-----------------|----|-----|-----|
|               |               |                     | A               | B  | C   | D   |
| <b>K06-00</b> | SO 26 - SO 36 | 48x48               | 45              | 45 | 76  | 70  |
| <b>K0-00</b>  | SO 57         | 48x48               | 45              | 45 | 111 | 102 |
| <b>K0-01</b>  | SO 57         | 48x72               | 45              | 68 | 111 | 102 |
| <b>K0-11</b>  | SO 57         | 72x72               | 68              | 68 | 111 | 102 |
| <b>K1-11</b>  | SO 69         | 72x72               | 68              | 68 | 126 | 117 |
| <b>K-1-02</b> | SO 69         | 48x96               | 45              | 92 | 126 | 117 |
| <b>K1-12</b>  | SO 69         | 72x96               | 68              | 92 | 126 | 117 |

# BOXES for INSTRUMENTS

type  
**EMH 90**

|            |      |      |       |      |                            |
|------------|------|------|-------|------|----------------------------|
| Protection | Gas  | Zone | 1-2   | II2G | Ex d IIC T6÷T4 Gb          |
|            | Dust | Zone | 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**

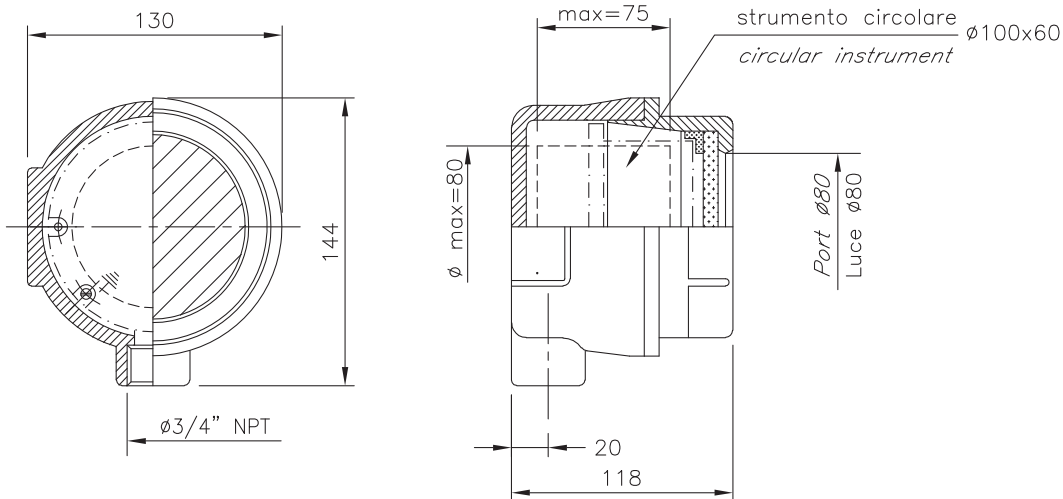
Material  
**Aluminum Light Alloy**

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 |  |
| Standards and Certificates | U  | BVI 14 ATEX 0067U |  |
|                            | IEC 60079-0 • IEC 60079-1 • IEC 60079-31 |                   |  |
|                            | IECEX EPS 14.0086X                       |                   |  |
| IECEX EPS 14.0087U         |  |                   |  |

- Screw cap with heat-resistant tempered glass and O-ring which ensures both IP66/67 protection and protection against dusts (2D)
- Complete with Stainless Steel screws

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



### NOTE

No external mounting bracket is available

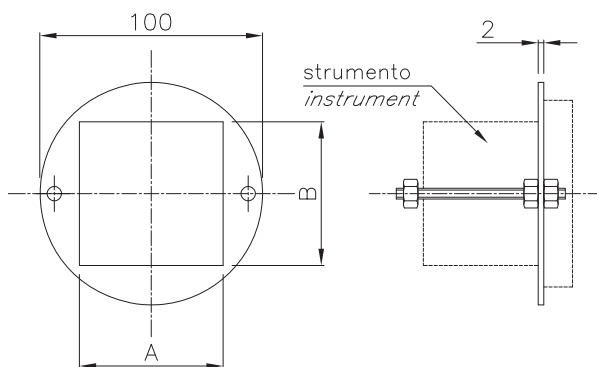
The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box.

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).

## INSTRUMENT MOUNTING KIT 72x72 mm - Model KH...

Material: Tropicalized Steel



| Code  | Dimensions (mm) |    |
|-------|-----------------|----|
|       | A               | B  |
| KH-00 | 45              | 45 |
| KH-11 | 68              | 68 |

### Example: EMH 90

|              |               |                      |  |
|--------------|---------------|----------------------|--|
| Order Coding | Box           | Model                | Cable entries threading if different from std. (NPT) |
|              | <b>EMH 90</b> | See table on page B9 | <b>M = Metric</b>                                    |



# MAX DISSIPATED POWER and TEMPERATURE CLASS relating to AMBIENT TEMPERATURE RANGE

series  
**S**  
**SO**  
**EMH90**

**B**

| ENCLOSURE   | MAX. AMBIENT TEMPERATURE | MAX. DISSIPATED POWER | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | CABLE ENTRY POINT TEMPERATURE | O-RING TYPE     |
|---|--------------------------|-----------------------|-------------------|-----------------------------|-------------------------------|-----------------|
| <b>S..4</b><br><b>S..4/..</b><br><b>SO..4</b><br><b>SO..4/..</b>                  | 40°C                     | 7,5 W                 | T6                | T85°C                       | 80°C                          | EPDM / SILICONE |
|   | 50°C                     | 5,5 W                 |                   |                             |                               |                 |
|   | 60°C                     | 3,0 W                 |                   |                             |                               |                 |
|   | 70°C                     | 1,0 W                 |                   |                             |                               |                 |
|   | 40°C                     | 11,0 W                | T5                | T100°C                      | 95°C                          | EPDM / SILICONE |
|   | 50°C                     | 8,5 W                 |                   |                             |                               |                 |
|   | 60°C                     | 6,0 W                 |                   |                             |                               |                 |
|   | 70°C                     | 4,5 W                 |                   |                             |                               |                 |
|   | 85°C                     | 1,0 W                 | T4                | T135°C                      | 130°C                         | SILICONE        |
|   | 40°C                     | 19,5 W                |                   |                             |                               |                 |
|   | 50°C                     | 17,0 W                |                   |                             |                               |                 |
|   | 60°C                     | 14,0 W                |                   |                             |                               |                 |
| 70°C  | 12,0 W                   | T6                    | T85°C             | 80°C                        | EPDM / SILICONE               |                 |
| 85°C  | 8,5 W                    |                       |                   |                             |                               |                 |
| 40°C  | 11,5 W                   |                       |                   |                             |                               |                 |
| 50°C  | 9,0 W                    |                       |                   |                             |                               |                 |
| 60°C  | 6,5 W                    | T5                    | T100°C            | 95°C                        | EPDM / SILICONE               |                 |
| 70°C  | 4,5 W                    |                       |                   |                             |                               |                 |
| 85°C  | 1,0 W                    |                       |                   |                             |                               |                 |
| 40°C  | 20,5 W                   |                       |                   |                             |                               |                 |
| 50°C  | 18,0 W                   | T4                    | T135°C            | 130°C                       | SILICONE                      |                 |
| 60°C  | 15,0 W                   |                       |                   |                             |                               |                 |
| 70°C  | 12,5 W                   |                       |                   |                             |                               |                 |
| 85°C  | 9,0 W                    |                       |                   |                             |                               |                 |
| <b>S..7</b><br><b>S..7/..</b><br><b>SO..7</b><br><b>SO..7/..</b><br><b>EMH 90</b> | 40°C                     | 11,0 W                | T6                | T85°C                       | 80°C                          | EPDM / SILICONE |
|   | 50°C                     | 7,5 W                 |                   |                             |                               |                 |
|   | 60°C                     | 4,5 W                 |                   |                             |                               |                 |
|   | 70°C                     | 2,0 W                 |                   |                             |                               |                 |
|   | 40°C                     | 16,0 W                | T5                | T100°C                      | 95°C                          | EPDM / SILICONE |
|   | 50°C                     | 12,5 W                |                   |                             |                               |                 |
|   | 60°C                     | 9,0 W                 |                   |                             |                               |                 |
|   | 70°C                     | 6,0 W                 |                   |                             |                               |                 |
|   | 85°C                     | 2,0 W                 | T4                | T135°C                      | 130°C                         | SILICONE        |
|   | 40°C                     | 31,0 W                |                   |                             |                               |                 |
|   | 50°C                     | 27,0 W                |                   |                             |                               |                 |
|   | 60°C                     | 22,0 W                |                   |                             |                               |                 |
| 70°C  | 18,0 W                   | T6                    | T85°C             | 80°C                        | EPDM / SILICONE               |                 |
| 85°C  | 12,5 W                   |                       |                   |                             |                               |                 |
| 40°C  | 14,0 W                   |                       |                   |                             |                               |                 |
| 50°C  | 10,0 W                   |                       |                   |                             |                               |                 |
| 60°C  | 6,0 W                    | T5                    | T100°C            | 95°C                        | EPDM / SILICONE               |                 |
| 70°C  | 2,5 W                    |                       |                   |                             |                               |                 |
| 85°C  | 2,5 W                    |                       |                   |                             |                               |                 |
| 40°C  | 21,0 W                   |                       |                   |                             |                               |                 |
| 50°C  | 16,0 W                   | T4                    | T135°C            | 130°C                       | SILICONE                      |                 |
| 60°C  | 12,0 W                   |                       |                   |                             |                               |                 |
| 70°C  | 8,0 W                    |                       |                   |                             |                               |                 |
| 85°C  | 2,5 W                    |                       |                   |                             |                               |                 |
| 40°C  | 42,0 W                   | T5                    | T100°C            | 95°C                        | EPDM / SILICONE               |                 |
| 50°C  | 35,0 W                   |                       |                   |                             |                               |                 |
| 60°C  | 29,0 W                   |                       |                   |                             |                               |                 |
| 70°C  | 24,0 W                   |                       |                   |                             |                               |                 |
| 85°C  | 16,0 W                   | T4                    | T135°C            | 130°C                       | SILICONE                      |                 |
| 40°C  | 42,0 W                   |                       |                   |                             |                               |                 |
| 50°C  | 35,0 W                   |                       |                   |                             |                               |                 |
| 60°C  | 29,0 W                   |                       |                   |                             |                               |                 |
| 70°C  | 24,0 W                   | T5                    | T100°C            | 95°C                        | EPDM / SILICONE               |                 |
| 85°C  | 2,5 W                    |                       |                   |                             |                               |                 |
| 40°C  | 42,0 W                   |                       |                   |                             |                               |                 |
| 50°C  | 35,0 W                   |                       |                   |                             |                               |                 |
| 60°C  | 29,0 W                   | T4                    | T135°C            | 130°C                       | SILICONE                      |                 |
| 70°C  | 24,0 W                   |                       |                   |                             |                               |                 |
| 85°C  | 16,0 W                   |                       |                   |                             |                               |                 |



## TYPES of EQUIPMENT / INSTRUMENTS to be HOUSED inside the JUNCTION BOXES

series  
**S**  
**SO**  
EMH90

**B**

| General Instruments Types Definitions                                   | MOD. (°) |
|---|----------|
| • Alarm & Alerting Module   | <b>K</b> |
| • Ambient thermostat  |          |
| • Amperometer (Analog / Digital)  |          |
| • Amperometric Relay (electronic)                                       |          |
| • Anti-surge device (single-phase)                                      |          |
| • Anti-surge device (three-phase)                                       |          |
| • Control Relay   |          |
| • Cosfimeter 0,1 to 1 or Cosfimeter 0,2 to 1 (electrodynamic)           |          |
| • Current Relay   |          |
| • Cycles Programmer   |          |
| • Digital Clock (electronic)  |          |
| • Electromechanical Timer (Eletttonic, Analog/Digital)                  |          |
| • Electronic Control & Measurement Board                                |          |
| • Frequency meter 5 to 500 Hz and 36 to 66 Hz                           |          |
| • Fuse-holder (for fuses 8,5 x 31,5 or 10,3 x 38 mm)                    |          |
| • Hour Counter (electric)   |          |
| • Isolation Controller  |          |
| • LCD Indicator Mod. E4... (self-powered)                               |          |
| • Light Barrier (with built-in relay)                                   |          |
| • Light Intensity Switch  |          |
| • Programmable Switch (hourly, daily, weekly)                           |          |
| • Programmer (electronic digital)                                       |          |
| • Programmer (Analog, with up to 10 LED's)                              |          |
| • Programmer (electronic with transponder)                              |          |
| • Pulse Counter (electric)  |          |
| • Pulse Counter (electronic, with built-in relay)                       |          |
| • Stepping Relay  |          |
| • Strain gauge Signal Converter Series ICA ...                          |          |
| • Temperature Controller (Electronic, Digital, adjustable up to 1600°C) |          |
| • Temperature Transmitter (2-wires Series T...)                         |          |
| • Thermometer (electronic, digital up to 1600°C)                        |          |
| • Time Relay (electronic)   |          |
| • Transmitter (2-wireseries PR)   |          |
| • Twilight switch   |          |
| • Voltage Relay   |          |
| • Voltmeter (electromagnetic or with permanent magnet up to 600 V)      |          |
| • Wattmeter up to 999 kW or eletcrodynamic up to 300 kW                 |          |

**NOTES**

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>• Max supply voltage: 660 VAC / 440 VDC.</li> <li>• All the electrical equipment shall conform to their respective IEC/CENELEC standards regarding their nominal characteristics and operating mode. Furthermore, they must have dimensions as to ensure</li> </ul> | <p>that, in any cross-section, at least 40% of the surface is free.</p> <ul style="list-style-type: none"> <li>• Maximum dissipated power shall be in according to table reported on page B9.</li> <li>• A circuit breakers or contactors containing oil filling and apparatus</li> </ul> | <p>producing turbulences are not allowed to be installed inside the enclosure.</p> <ul style="list-style-type: none"> <li>• The equipment must be installed to avoid a risk from propagating brush discharges.</li> </ul> <p>(°) I.D. on the external plate</p> |
|--|---|---|

