

# AL Series

The enclosures of the AL Series are constructed of cast aluminum material. The enclosure base and cover are connected with pre-mounted, stainless steel cover screws (compatible with both Phillips and straight blade screwdrivers). The foam seal in the key/slot system guarantees an IP65 ingress protection and long lasting service life. A high quality coating covers and protects the enclosure from weather and corrosion. Several international safety certificates insure the overall quality of the AL Series.

The complete series of 16 enclosures ranges from 50x45x30mm to 330x230x110mm.

The exterior of the enclosure is protected by powder coating (silver-gray - RAL 7001) and combines an elegant appearance with outstanding protection against corrosion.

The enclosure material (Al Si 12) ensures both a high degree of impact resistance (>7Nm, DIN 50014) and continued operation in extreme temperatures.

# AL Series Enclosures

The advantages of the AL Series include:

- IP65 protection, which is necessary for industry approval.
- High degree of resistance to chemicals and other damaging materials.
- Protection against electromagnetic interference (EMI).

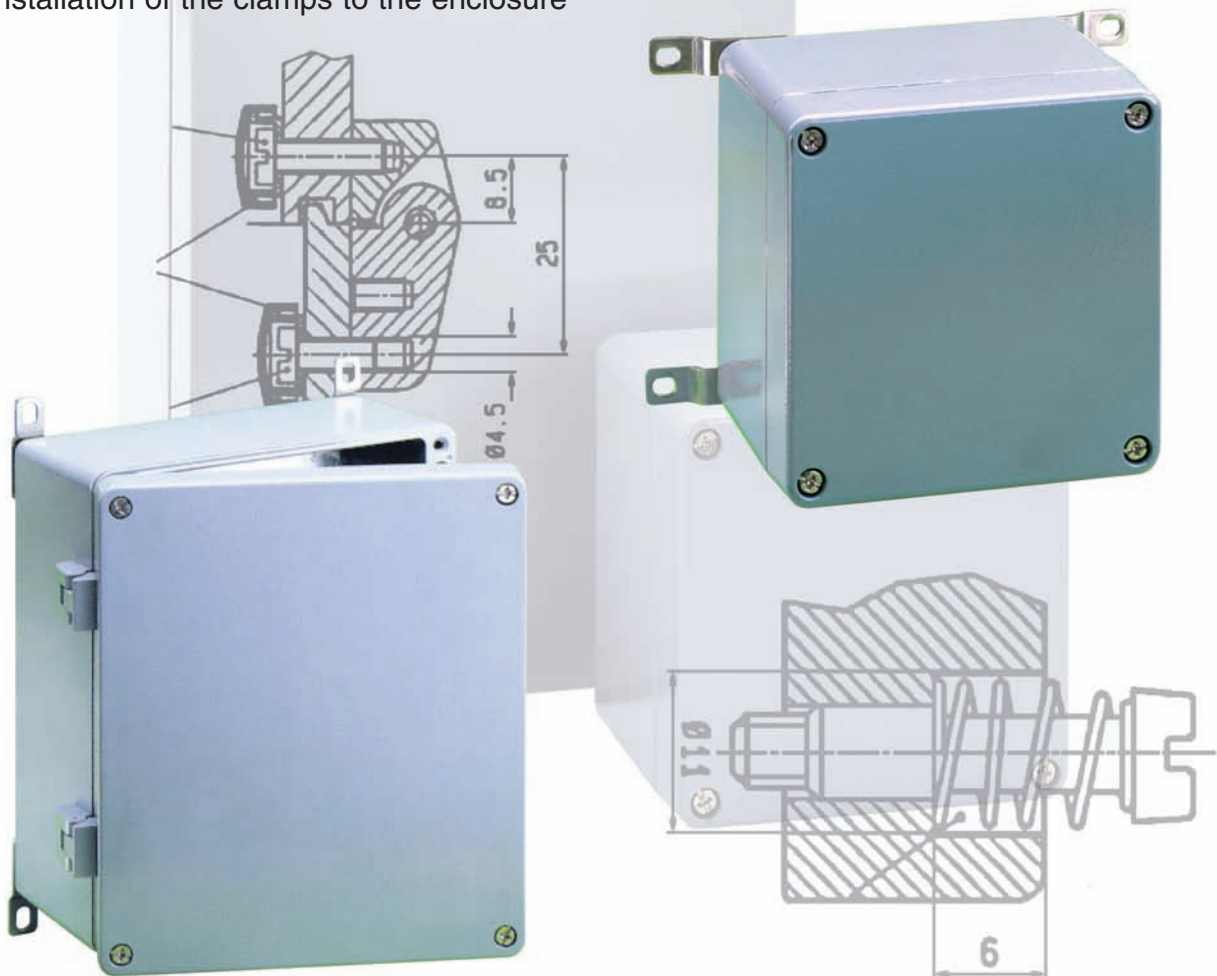
The specially designed AL Series accessories make the AL Enclosures flexible and highly secure.

The external fastening clamps allow for solid and safe wall mounting of the AL Enclosures. The installation of the clamps to the enclosure

can be varied up to 90 degrees.

Through the use of outer hinges, the covers of the AL Series can be converted into hinged doors. This is especially useful when devices such as push-button systems are integrated into the enclosure. The external hinges, constructed of cast aluminum can be swiveled up to 150 degrees.

With the help of the steel mounting plates, even large and heavy components can be securely mounted. The mounting plates are available from enclosures AL 88-6 and larger.



# AL 55-3 – Aluminum – 50x45mm (1.97x1.77in.)

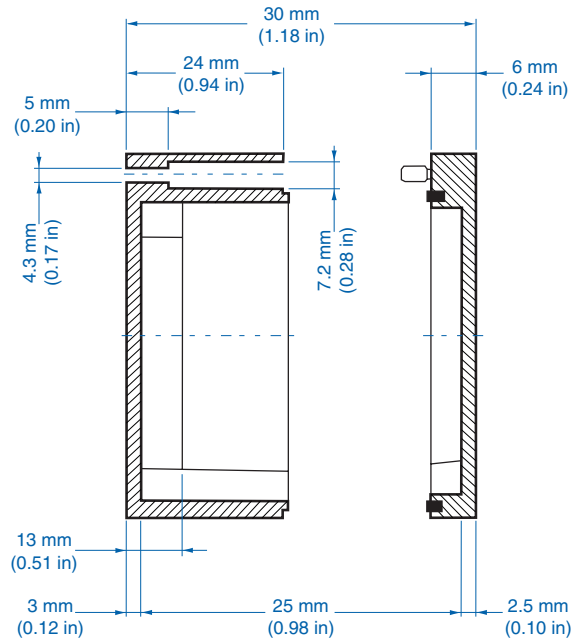
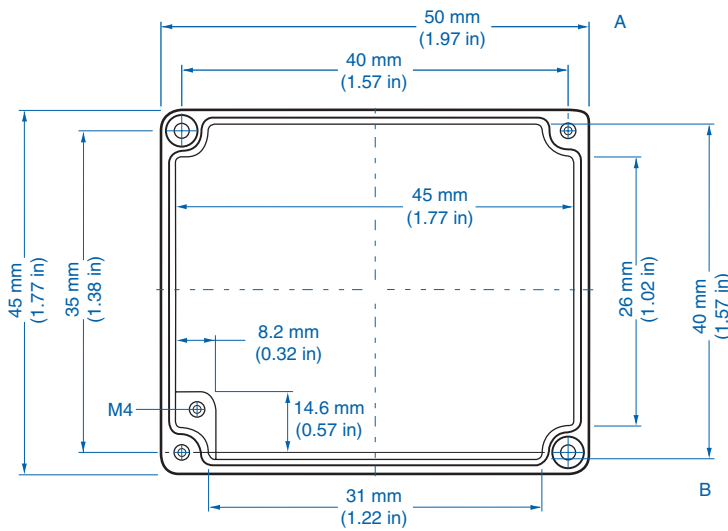
## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



## Aluminum

| Ordering Information | Cat. No. | Type    | Length          | Dimensions mm (in) |                 | Std. Pk. |
|----------------------|----------|---------|-----------------|--------------------|-----------------|----------|
|                      |          |         |                 | Width              | Height          |          |
| Enclosure            | 150-001  | AL 55-3 | 50 mm (1.97 in) | 45 mm (1.77 in)    | 30 mm (1.18 in) | 1        |



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



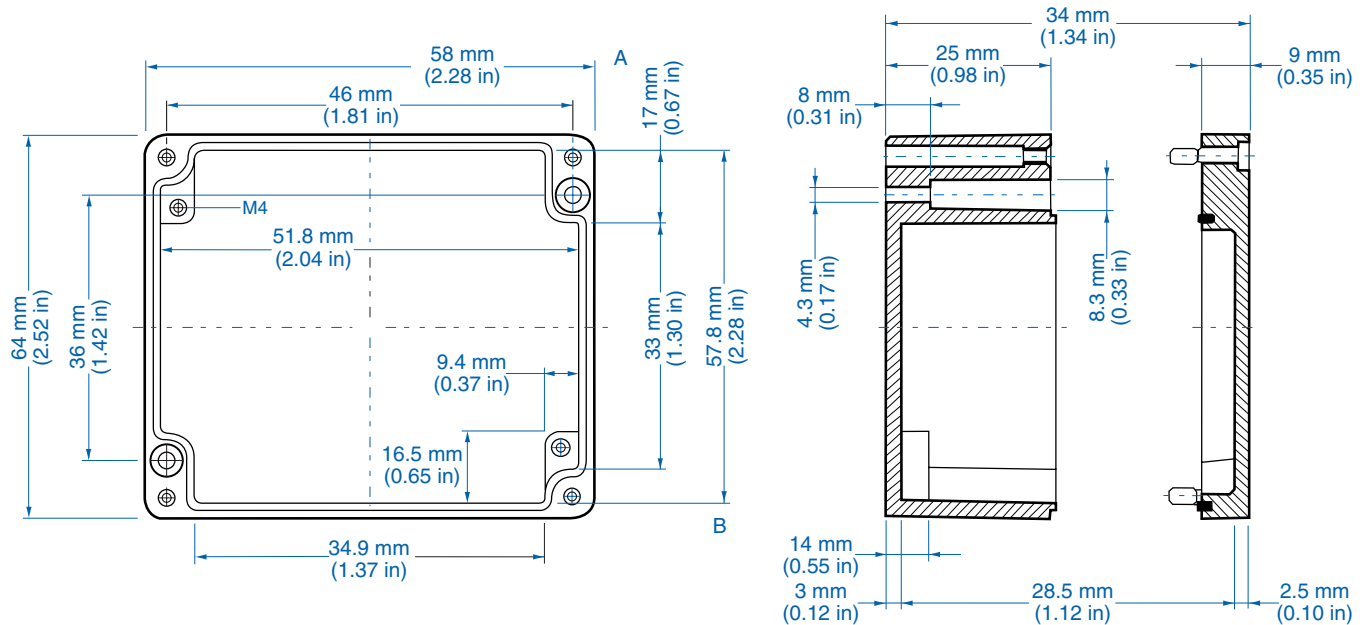
**Aluminum**

| Ordering Information | Cat. No. | Type    | Length          | Dimensions mm (in) |                 | Std. Pk. |
|----------------------|----------|---------|-----------------|--------------------|-----------------|----------|
|                      |          |         |                 | Width              | Height          |          |
| Enclosure            | 150-002  | AL 66-3 | 64 mm (2.52 in) | 58 mm (2.28 in)    | 34 mm (1.34 in) | 1        |

**Accessories**

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



# AL 1006-3 – Aluminum – 98x64mm (3.86x2.52in.)

## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



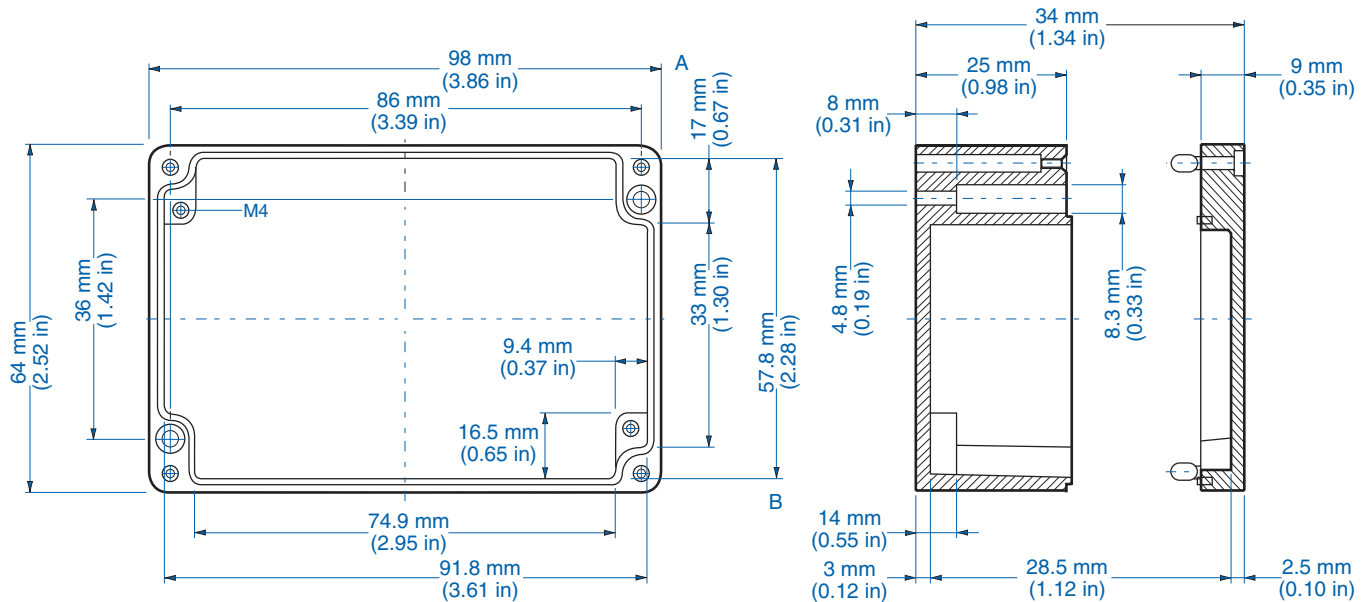
## Aluminum

| Ordering Information | Cat. No. | Type      | Length          | Dimensions mm (in) |                 | Std. Pk. |
|----------------------|----------|-----------|-----------------|--------------------|-----------------|----------|
|                      |          |           |                 | Width              | Height          |          |
| Enclosure            | 150-003  | AL 1006-3 | 98 mm (3.86 in) | 64 mm (2.52 in)    | 34 mm (1.34 in) | 1        |

## Accessories

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



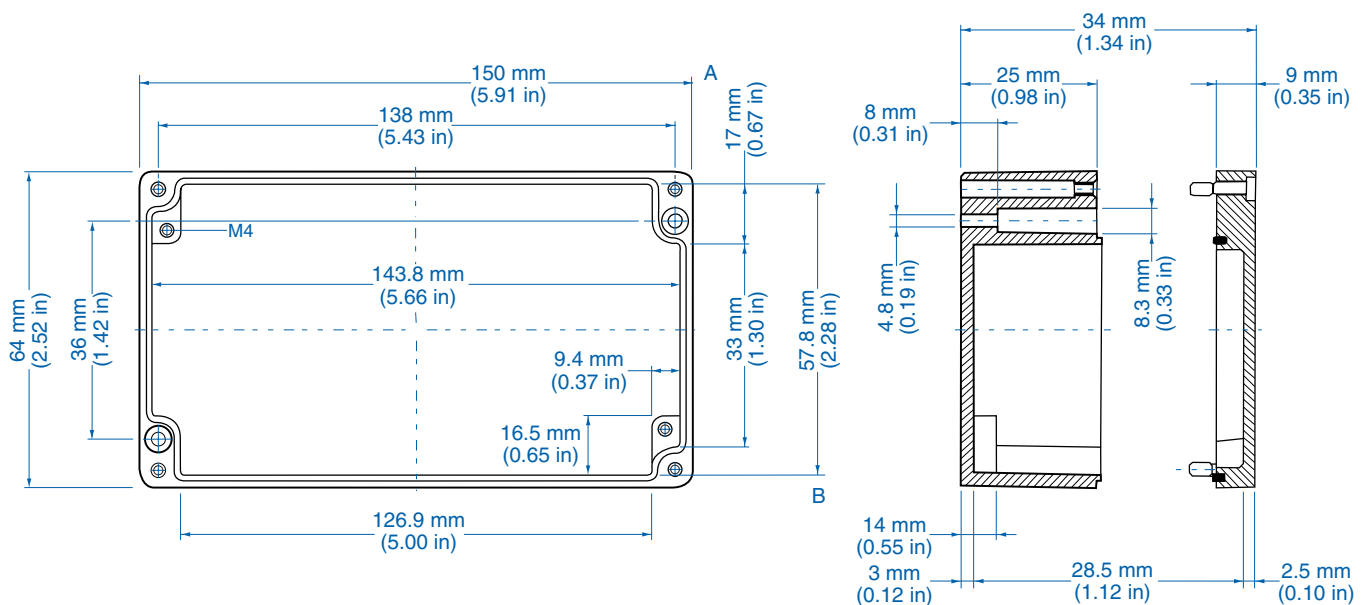
**Aluminum**

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in)<br>Width | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|-----------------------------|-----------------|----------|
| Enclosure            | 150-004  | AL 1506-3 | 150 mm (5.91 in) | 64 mm (2.52 in)             | 34 mm (1.34 in) | 1        |

**Accessories**

| Ordering Information    | Cat. No. | Type   | Std. Pk. |
|-------------------------|----------|--------|----------|
| Mounting Tab Kit- small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



## AL 88-6 – Aluminum – 80x75mm (3.15x2.95in.)

### Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



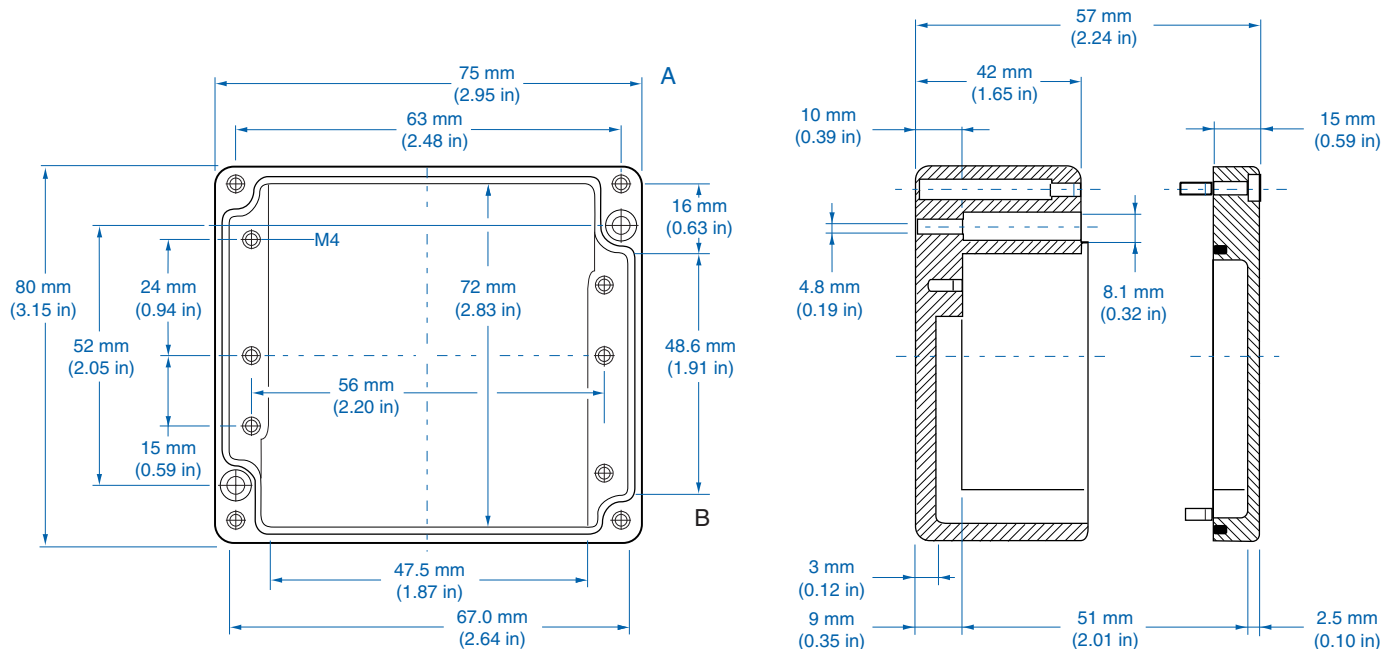
### Aluminum

| Ordering Information | Cat. No. | Type    | Length          | Dimensions mm (in)<br>Width | Height          | Std. Pk. |
|----------------------|----------|---------|-----------------|-----------------------------|-----------------|----------|
| Enclosure            | 150-005  | AL 88-6 | 80 mm (3.15 in) | 75 mm (2.95 in)             | 57 mm (2.24 in) | 1        |

### Accessories

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Plate           | 155-005  | MP88   | 1        |
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



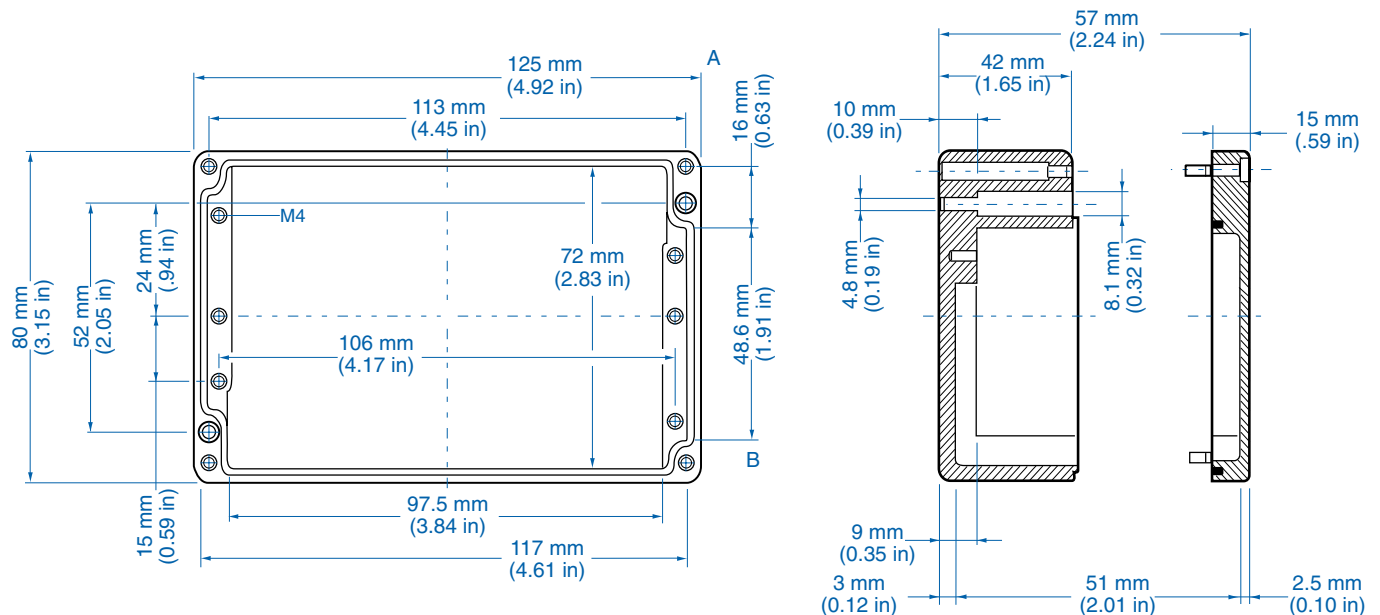
**Aluminum**

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in)<br>Width | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|-----------------------------|-----------------|----------|
| Enclosure            | 150-006  | AL 1308-6 | 125 mm (4.92 in) | 80 mm (3.15 in)             | 57 mm (2.24 in) | 1        |

**Accessories**

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Plate           | 155-006  | MP1308 | 1        |
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



## AL 1808-6 – Aluminum – 175x80mm (6.89x3.15in.)

### Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



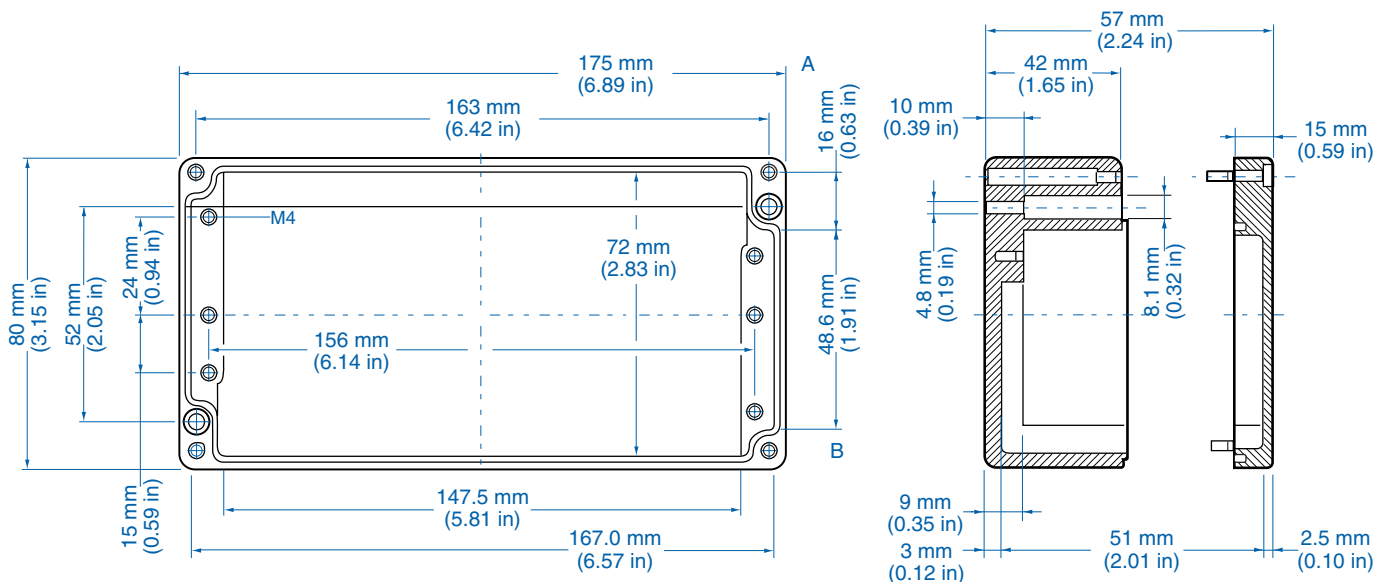
### Aluminum

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in) | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|--------------------|-----------------|----------|
| Enclosure            | 150-007  | AL 1808-6 | 175 mm (6.89 in) | 80 mm (3.15 in)    | 57 mm (2.24 in) | 1        |

### Accessories

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Plate           | 155-007  | MP1808 | 1        |
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



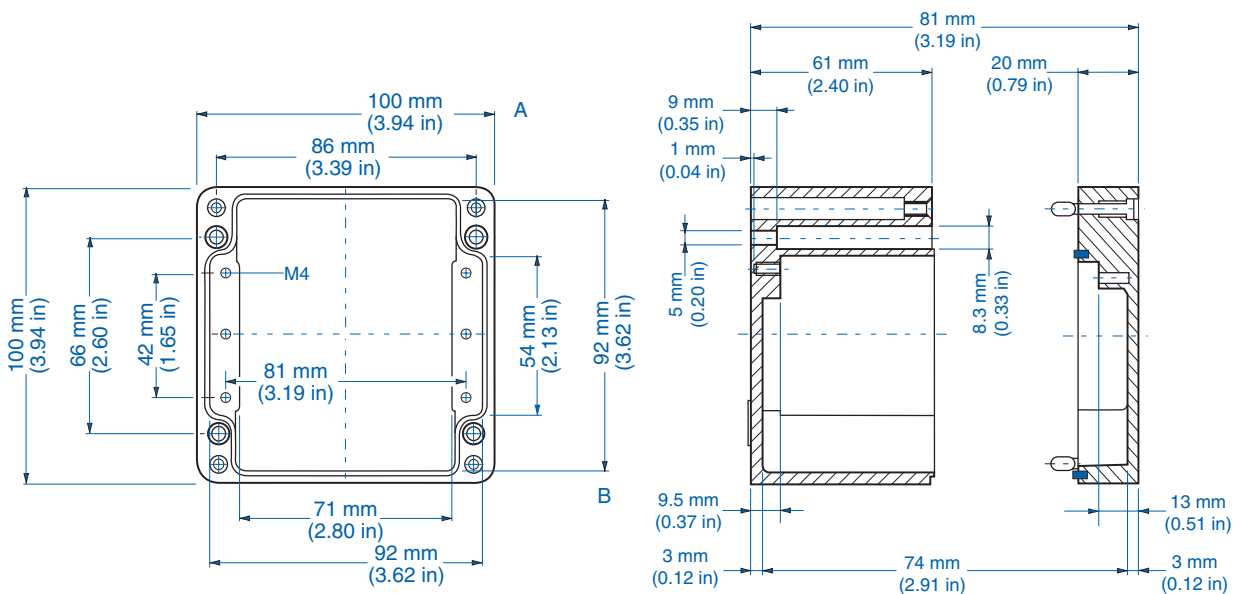
**Aluminum**

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in) | Width           | Height | Std. Pk. |
|----------------------|----------|-----------|------------------|--------------------|-----------------|--------|----------|
| Enclosure            | 150-008  | AL 1010-8 | 100 mm (3.94 in) | 100 mm (3.94 in)   | 80 mm (3.15 in) |        | 1        |

**Accessories**

| Ordering Information     | Cat. No. | Type   | Std. Pk. |
|--------------------------|----------|--------|----------|
| Mounting Plate           | 155-008  | MP1010 | 1        |
| Hinge Kit Set            | 154-210  | HK-AL  | 1        |
| Mounting Tab Kit - small | 154-004  | MT-AL1 | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



# AL 1212-8 – Aluminum – 122x120mm (4.80x4.72in.)

## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



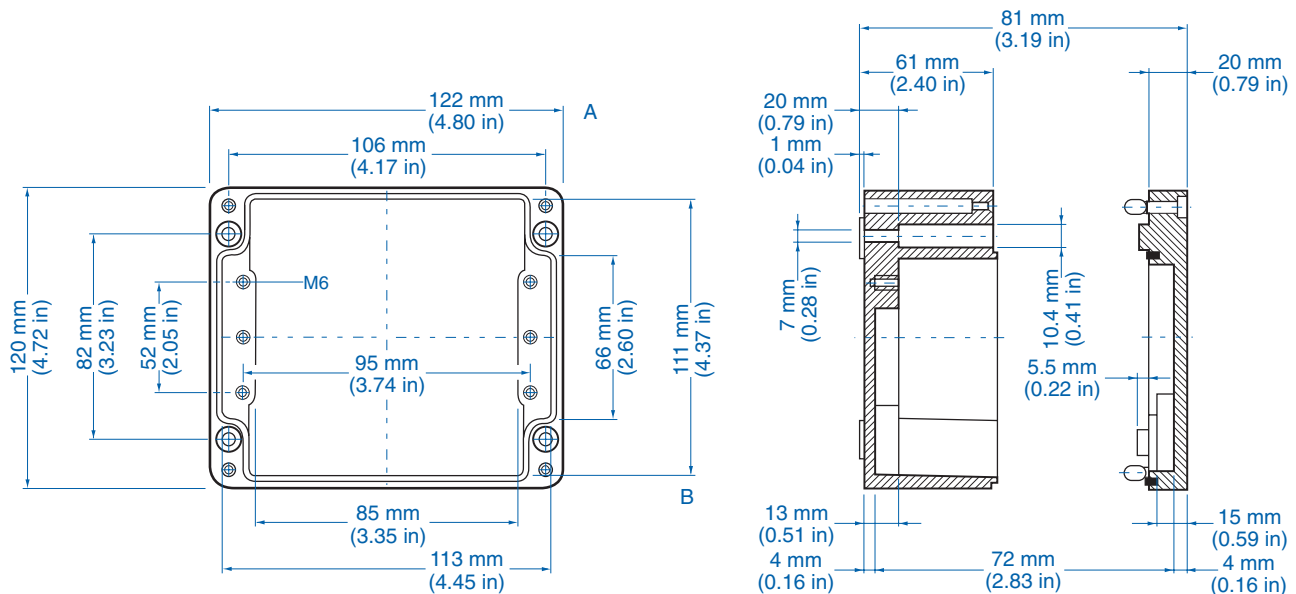
## Aluminum

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in)<br>Width | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|-----------------------------|-----------------|----------|
| Enclosure            | 150-009  | AL 1212-8 | 122 mm (4.80 in) | 120 mm (4.72 in)            | 80 mm (3.15 in) | 1        |

## Accessories

| Ordering Information         | Cat. No. | Type     | Std. Pk. |
|------------------------------|----------|----------|----------|
| Mounting Plate               | 155-009  | MP1212   | 1        |
| Hinge Kit Set                | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 110 mm | 162-009  | TS35/110 | 1        |
| Mounting Tab Kit - large     | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



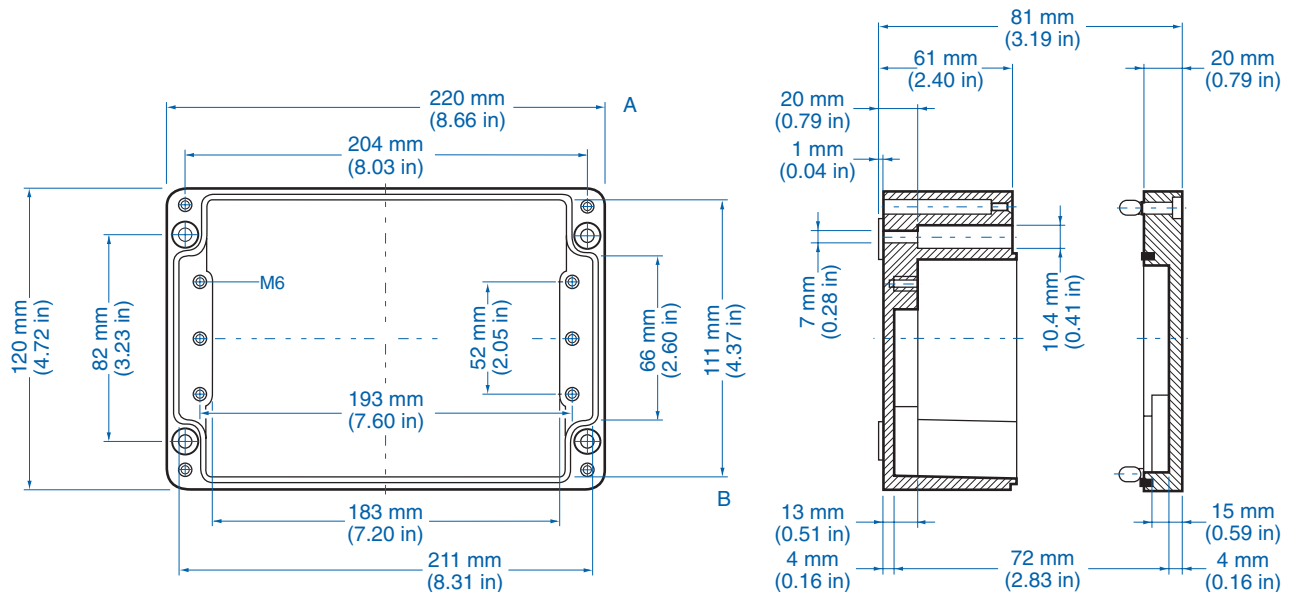
**Aluminum**

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in) | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|--------------------|-----------------|----------|
| Enclosure            | 150-010  | AL 2212-8 | 220 mm (8.66 in) | 120 mm (4.72 in)   | 80 mm (3.15 in) | 1        |

**Accessories**

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-010  | MP2212   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 208mm | 162-010  | TS35/208 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



# AL 1616-9 – Aluminum – 160x160mm (6.30x6.30in.)

## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



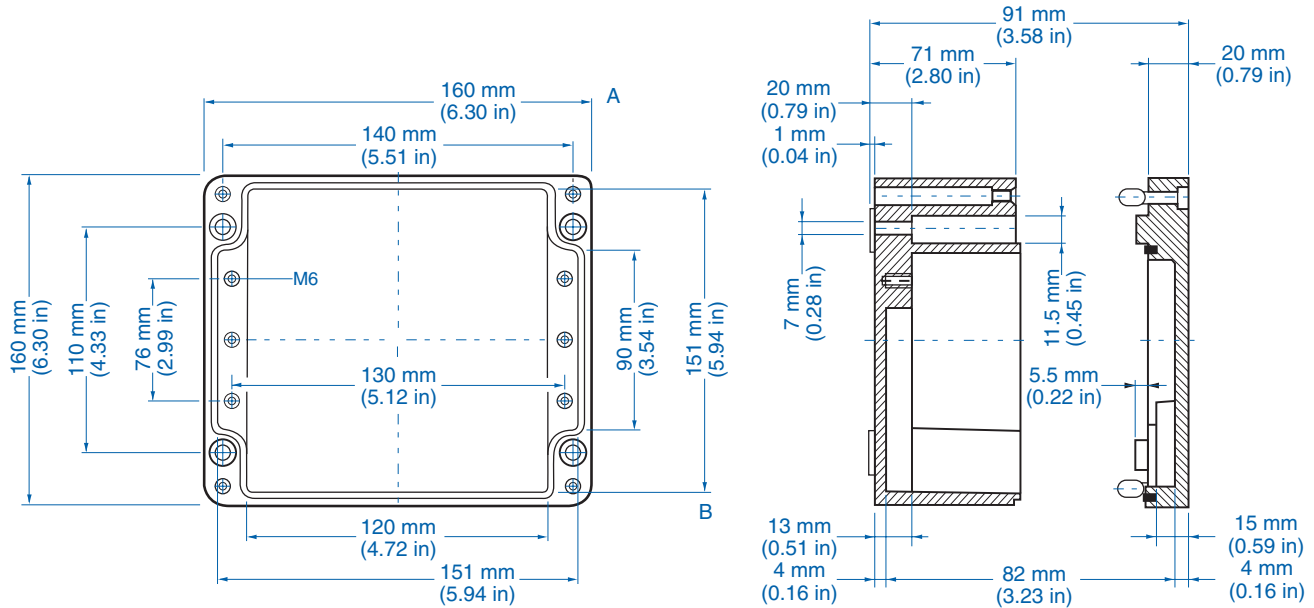
## Aluminum

| Ordering Information | Cat. No. | Type      | Length           | Dimensions mm (in)<br>Width | Height          | Std. Pk. |
|----------------------|----------|-----------|------------------|-----------------------------|-----------------|----------|
| Enclosure            | 150-011  | AL 1616-9 | 160 mm (6.30 in) | 160 mm (6.30 in)            | 90 mm (3.54 in) | 1        |

## Accessories

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-011  | MP1616   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 145mm | 162-011  | TS35/145 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



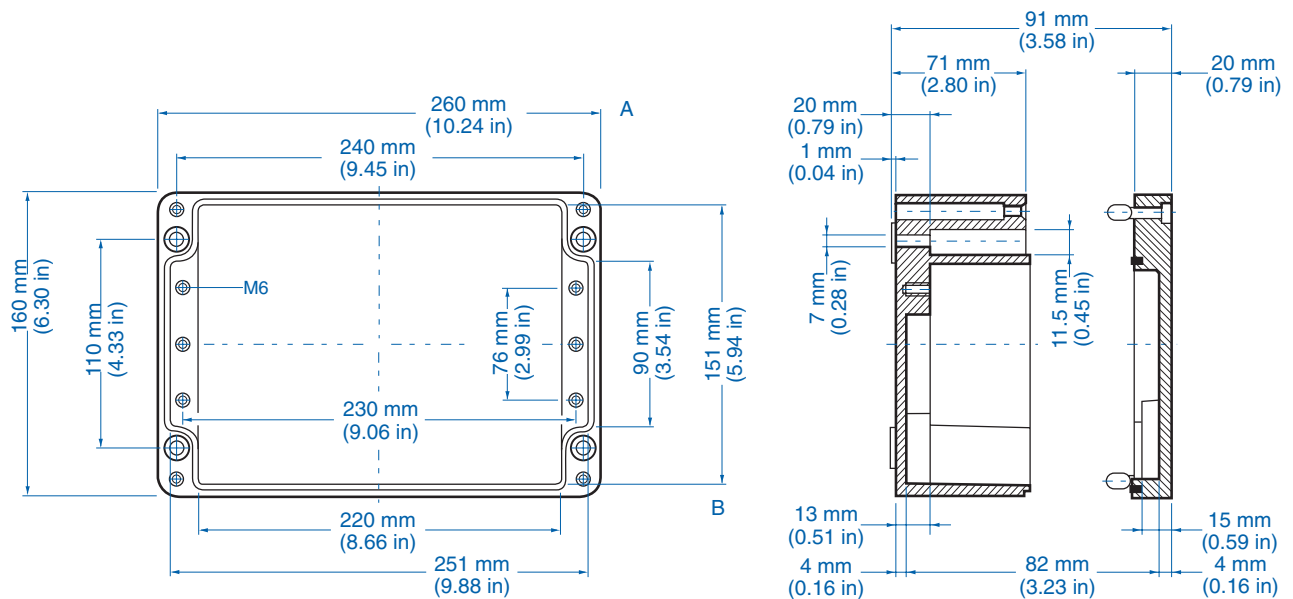
**Aluminum**

| Ordering Information | Cat. No. | Type      | Length            | Dimensions mm (in) | Height          | Std. Pk. |
|----------------------|----------|-----------|-------------------|--------------------|-----------------|----------|
| Enclosure            | 150-012  | AL 2616-9 | 260 mm (10.24 in) | 160 mm (6.30 in)   | 90 mm (3.54 in) | 1        |

**Accessories**

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-012  | MP2616   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 245mm | 162-012  | TS35/245 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



# AL 3616-9 – Aluminum – 360x160mm (14.17x6.30in.)

## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



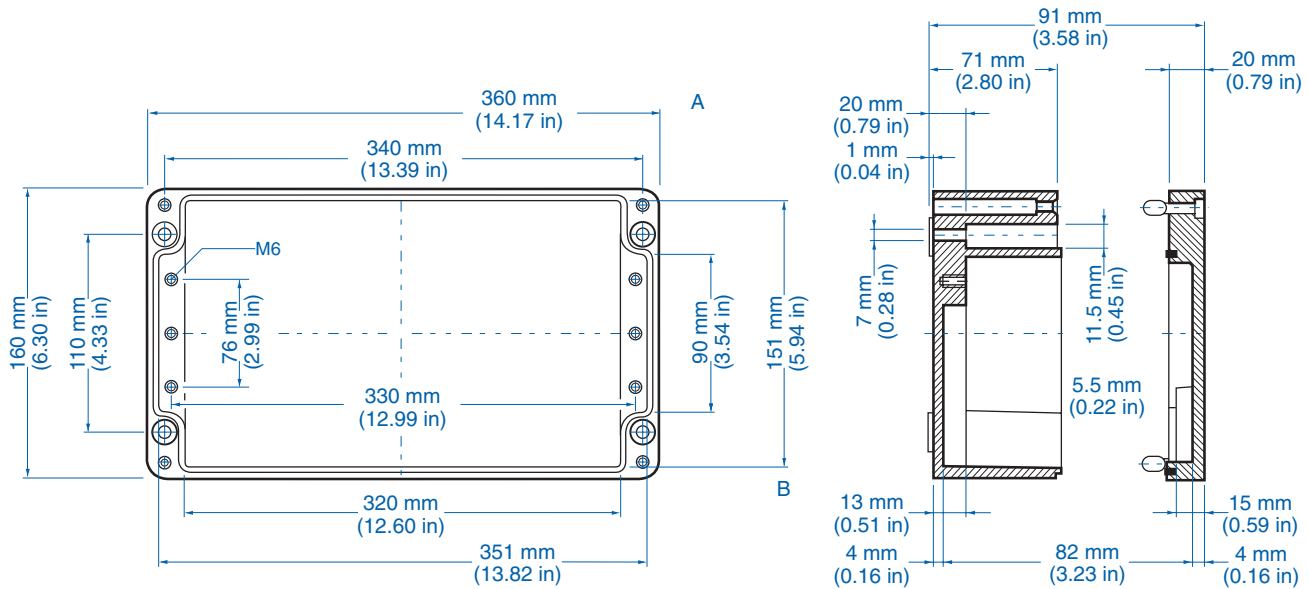
## Aluminum

| Ordering Information | Cat. No. | Type      | Length            | Dimensions mm (in) | Width           | Height | Std. Pk. |
|----------------------|----------|-----------|-------------------|--------------------|-----------------|--------|----------|
| Enclosure            | 150-013  | AL 3616-9 | 360 mm (14.17 in) | 160 mm (6.30 in)   | 90 mm (3.54 in) | 1      |          |

## Accessories

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-013  | MP3616   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 345mm | 162-013  | TS35/345 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



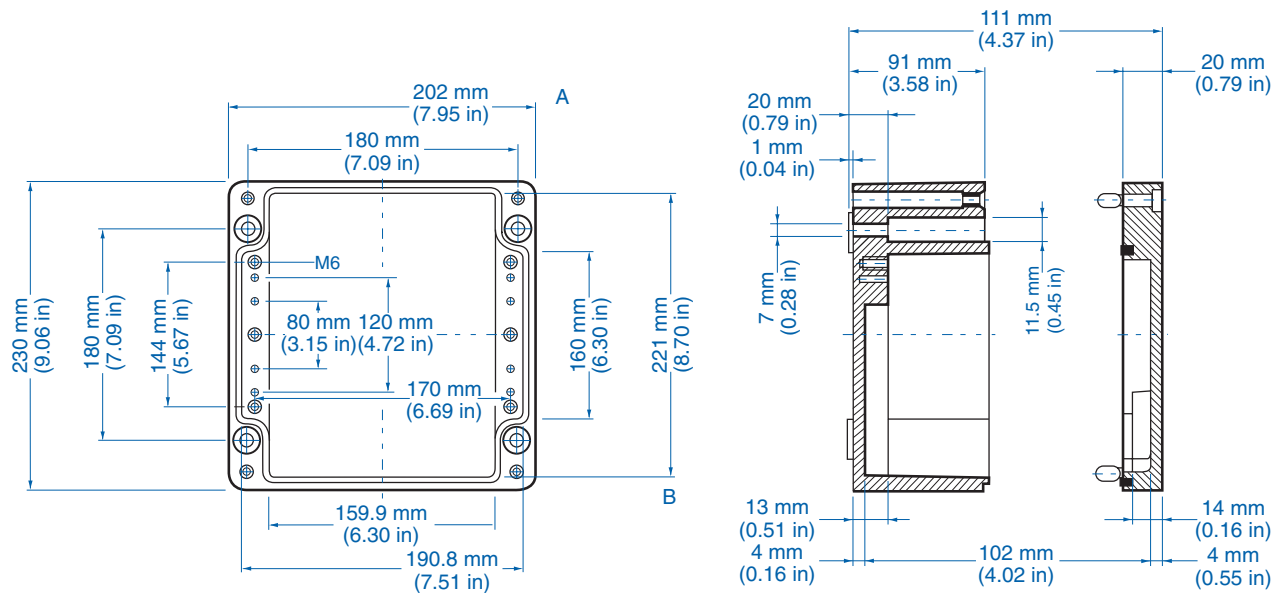
**Aluminum**

| Ordering Information | Cat. No | Type       | Length           | Dimensions mm (in)<br>Width | Height           | Std. Pk. |
|----------------------|---------|------------|------------------|-----------------------------|------------------|----------|
| Enclosure            | 150-014 | AL 2023-11 | 202 mm (7.95 in) | 230 mm (9.06 in)            | 111 mm (4.37 in) | 1        |

**Accessories**

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-014  | MP2023   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 186mm | 162-014  | TS35/186 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



# AL 2823-11 – Aluminum – 280x230mm (11.02x9.06in.)

## Standard Features

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



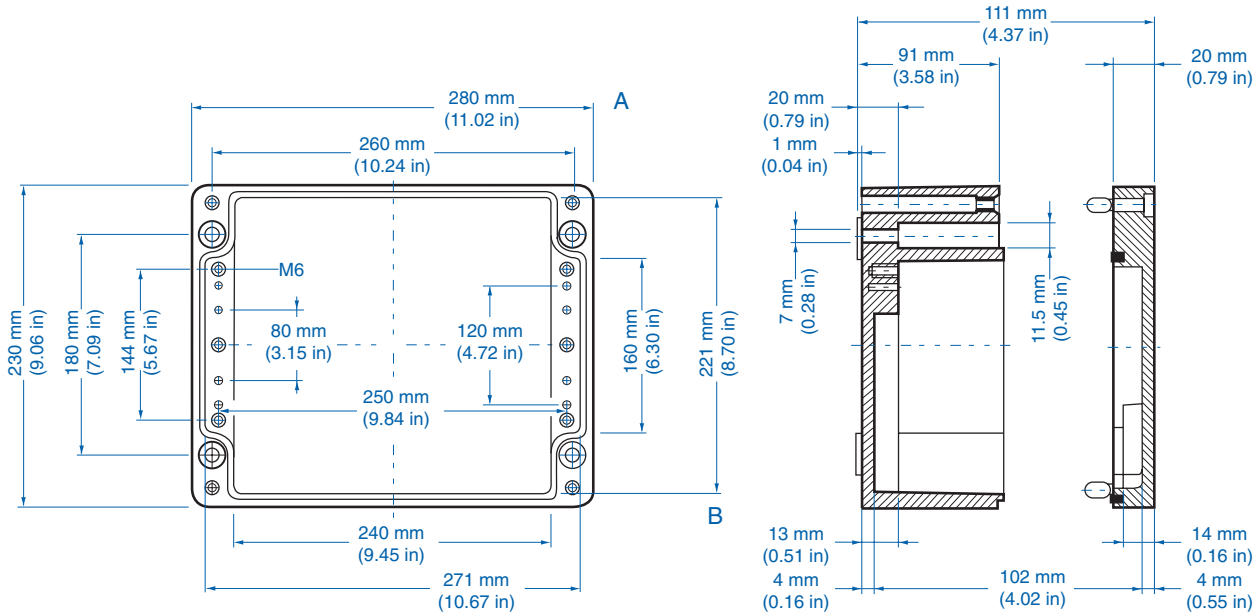
## Aluminum

| Ordering Information | Cat. No. | Type       | Length            | Dimensions mm (in)<br>Width | Height           | Std. Pk. |
|----------------------|----------|------------|-------------------|-----------------------------|------------------|----------|
| Enclosure            | 150-015  | AL 2823-11 | 280 mm (11.02 in) | 230 mm (9.06 in)            | 111 mm (4.37 in) | 1        |

## Accessories

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-015  | MP2823   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 266mm | 162-015  | TS35/266 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.



**Standard Features**

- **Protection Level:** IP65
- **Technical:** Smooth Sidewalls
- **Enclosure Material:** Cast Aluminum, Al Si 12
- **Temperature Range:** -40°C to 100°C (-40°F to 212°F)
- **Gasket Material:** Polyurethane  
-35°C to 80°C (-31°F to 176°F)
- **Color:** Silver Gray, RAL 7001
- **Accessories:** See section below



**Aluminum**

| Ordering Information | Cat. No. | Type       | Length            | Dimensions mm (in) | Height           | Std. Pk. |
|----------------------|----------|------------|-------------------|--------------------|------------------|----------|
| Enclosure            | 150-016  | AL 3323-11 | 330 mm (12.99 in) | 230 mm (9.06 in)   | 111 mm (4.37 in) | 1        |

**Accessories**

| Ordering Information        | Cat. No. | Type     | Std. Pk. |
|-----------------------------|----------|----------|----------|
| Mounting Plate              | 155-016  | MP3323   | 1        |
| Hinge Kit Set               | 154-210  | HK-AL    | 1        |
| DIN Rail TS 35 - 35 x 316mm | 162-016  | TS35/316 | 1        |
| Mounting Tab Kit - large    | 154-006  | MT-AL2   | 1        |

Please refer to pages 116-120 for additional accessories and detailed information.

