

8146/2081 Art. No. 136801



- Versatile Ex i terminal boxes in various sizes and heights, degree of protection IP66
- Can be equipped as per customer requirements
- Enclosure with captive cover screws, flanges can be fitted on enclosure sides if required

MY R. STAHL 8146P



R. STAHL Series 8146 terminal boxes, made of high-quality, glass fibre reinforced polyester resin, are ideal for use in harsh ambient conditions. With eight basic sizes in various heights, they are universally usable. If requested by the customer, they are equipped with terminal blocks up to 300 mm<sup>2</sup> and, as an option, a flange can be put on several enclosure sides.

### Technical Data

#### Explosion Protection

|                                 |   |
|---------------------------------|---|
| Area of application             | European Union (ATEX)<br>IECEX<br>United Kingdom                                  |
| Application range (zones)       | 1, 2, 21, 22  |
| IECEX gas certificate           | IECEX PTB 06.0046   |
| IECEX gas explosion protection  | Ex ia ib IIC T6 Gb  |
| IECEX dust certificate          | IECEX PTB 06.0046   |
| IECEX dust explosion protection | Ex tb IIIC T80 °C Db  |
| ATEX gas certificate            | PTB 01 ATEX 1016  |
| ATEX gas explosion protection   | ⊕ II 2 G Ex ia ib IIC T6 Gb   |
| ATEX dust certificate           | PTB 01 ATEX 1016  |
| ATEX dust explosion protection  | ⊕ II 2 D Ex tb IIIC T80 °C Db   |
| Certificates                    | ATEX (PTB), Brazil (ULB), China (NEPSI), IECEX (PTB), India (PESO), Taiwan (ITRI) |
| Declaration of conformity       | ATEX (EUK), China (CCC)   |

#### Electrical Data

|                              |            |
|------------------------------|------------|
| Rated operational voltage AC | 0 ... 60 V |
|------------------------------|------------|

#### Ambient Conditions

|                     |                    |
|---------------------|--------------------|
| Ambient temperature | -60 °C ... +75 °C  |
| Ambient temperature | -76 °F ... +167 °F |

#### Mechanical Data

|                                     |   |
|-------------------------------------|---|
| Degree of protection note           | According to IEC/EN 60529               |
| IP degree of protection (IEC 60529) | IP66                                    |
| Enclosure material                  | Polyester resin, Glass fibre reinforced |
| Enclosure colour                    | Dark grey                               |
| Flammability according to           | IEC/EN 60695<br>UL 94<br>ASTM D635      |

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**Mechanical Data**

|                           |            |
|---------------------------|------------|
| Silicone-free             | No         |
| Cover thickness           | 2.8 mm     |
| Cover thickness in inches | 0.11 in    |
| Wall thickness            | 2.8 mm     |
| Wall thickness in inches  | 0.11 in    |
| Width                     | 340.5 mm   |
| Width, inches             | 13.406 in  |
| Height                    | 340.5 mm   |
| Height in inches          | 13.4060 in |
| Depth                     | 91 mm      |
| Depth in inches           | 3.583 in   |
| Weight                    | 3.4 kg     |
| Weight                    | 7.5 lb     |

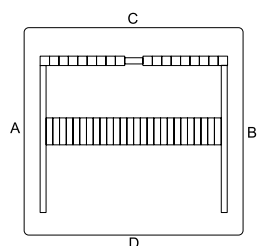
**Mounting / Installation**

|   |              |
|---|--------------|
| Tightening torque lbf in                  | 0 lbf-in     |
| Tightening torque of cover screw 1        | 4.5 Nm       |
| Tightening torque of cover screw 1 lbf in | 39.83 lbf in |

**Components**

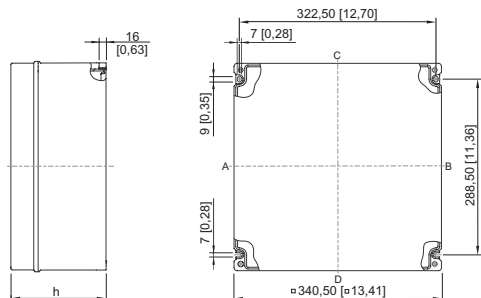
|                                   |   |
|-----------------------------------|---|
| Flange and plates                 | Without flange  |
| Entries installation options/side | Without drilled holes                                     |
| Terminal rail                     | 35 x 301 mm (1x)  |
| Terminal rail                     | 1.38 x 11.85" (1x)  |
| Type of terminals 1               | 1 x Phoenix UT<br>2-conductor, 2.5 mm <sup>2</sup> , blue |
| PA rail                           | 18 x 4 mm <sup>2</sup> (1x)                               |

**Technical Drawings – Subject to Alterations**



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**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**



- 8146/.08.
- 8146/.081: h = 91 mm [3.58 inch]
- 8146/.082: h = 131 mm [5.16 inch]
- 8146/.083: h = 150 mm [5.91 inch]
- 8146/.084: h = 171 mm [6.73 inch]
- 8146/.085: h = 190 mm [7.48 inch]
- 8146/.086: h = 230 mm [9.06 inch]

### Spare Parts

**2 mm brass plate for enclosure**

**Art. No.**

|  |   |        |
|--|---|--------|
|  | For<br>8146/.071, 8146/.072 (enclosure sides C/D)<br>8146/.081, 8146/.082 (enclosure sides A/B)<br>8146/.091, 8146/.092 (enclosure sides C1/D1) | 136927 |
|  | For<br>8146/.S71 (enclosure sides C/D)<br>8146/.081, 8146/.082 (enclosure sides C/D)<br>8146/.091, 8146/.092 (enclosure sides A/B)              | 136950 |

**2 mm brass plate for flanges**

**Art. No.**

|  |                                 |        |
|--|---------------------------------|--------|
|  | For flange size 1 (68 x 128 mm) | 136888 |
|--|---------------------------------|--------|

**3 mm brass plate for enclosure**

**Art. No.**

|  |   |        |
|--|---|--------|
|  | For<br>8146/.071, 8146/.072 (enclosure sides C/D)<br>8146/.081, 8146/.082 (enclosure sides A/B)<br>8146/.091, 8146/.092 (enclosure sides C1/D1) | 136313 |
|  | For<br>8146/.S71 (enclosure sides C/D)<br>8146/.081, 8146/.082 (enclosure sides C/D)<br>8146/.091, 8146/.092 (enclosure sides A/B)              | 136544 |

**3 mm brass plate for flanges**

**Art. No.**

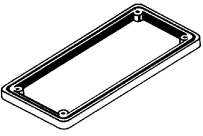
|  |                                 |        |
|--|---------------------------------|--------|
|  | For flange size 1 (68 x 128 mm) | 136201 |
|--|---------------------------------|--------|

# Installation equipment

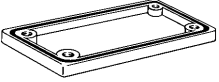
## Ex i terminal box



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| Frame  |                     | Art. No. |
|--|---------------------|----------|
|  | Size 1, 68 x 128 mm | 135974   |

| Flange   |                                   | Art. No. |
|--|-----------------------------------|----------|
|  | Size 1: 68 x 128 mm, 5.8 mm thick | 136032   |
|  | Size 1: 68 x 128 mm, 2.8 mm thick | 135978   |

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.