

8150/1-0176-0176-091-3311 Art. No. 278810



- Resistant Ex e terminal boxes made of stainless steel
- Degree of protection IP66
- External earth connection M8
- Version as screw-on cover for other alternatives contact factory
- Equipped as required

### MY R. STAHL 8150L



R. STAHL Series 8150 Ex e terminal boxes are made of brushed stainless steel (DIN 1.4301, ANSI 304 or DIN 1.4404, ANSI 316L) and are particularly resistant. The optimised design and the circumferential protection channel on the cover opening and the silicone seal suitable for the most extreme temperature ranges make the enclosure usable worldwide. Various optional accessories are available.

## Technical Data

### Explosion Protection

|                                 |                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------|
| Area of application             | European Union (ATEX)<br>IECEX<br>NEC®<br>CE Code                                              |
| Application range (zones)       | 1, 2, 21, 22                                                                                   |
| IECEX gas certificate           | IECEX PTB 09.0048                                                                              |
| IECEX gas explosion protection  | Ex eb IIC T6 ... T4 Gb                                                                         |
| IECEX dust certificate          | IECEX PTB 09.0048                                                                              |
| IECEX dust explosion protection | Ex tb IIIC T80 °C ... T135 °C Db                                                               |
| ATEX gas certificate            | PTB 09 ATEX 1108                                                                               |
| ATEX gas explosion protection   | Ex II 2 G Ex eb IIC T6 ... T4 Gb                                                               |
| ATEX dust certificate           | PTB 09 ATEX 1108                                                                               |
| ATEX dust explosion protection  | Ex II 2 D Ex tb IIIC T80 °C ... T135 °C Db                                                     |
| Certification ULus              | E177642                                                                                        |
| Certificate cUL                 | E177642                                                                                        |
| Marking ULus                    | Class I, Zone 1 AEx e IIC T6, T5<br>Class I, Div. 2, Groups A,B,C,D<br>Enclosure Type 3, 4, 4X |
| Marking cUL                     | Class I, Zone 1 Ex e IIC T6, T5<br>Class I, Div. 2, Groups A,B,C,D<br>Enclosure Type 3, 4, 4X  |
| Certificates                    | ATEX (PTB), Canada (UL), IECEX (PTB), Taiwan (ITRI), USA (UL)                                  |

### Electrical Data

|                                  |       |
|----------------------------------|-------|
| Rated operational voltage AC IEC | 690 V |
| Rated operational voltage AC UL  | 600 V |

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### Ambient Conditions

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Ambient temperature °C | -50 °C ... +40 °C (T6) (T80 °C)<br>-50 °C ... +55 °C (T5) (T95 °C)<br>-50 °C ... +85 °C (T4) (T135 °C) |
| Ambient temperature    | -58°F ... +104°F (T6) (T80 °C)<br>-58°F ... +131°F (T5) (T95 °C)<br>-58°F ... +185°F (T4) (T135 °C)    |

### Mechanical Data

|                                          |                                                     |
|------------------------------------------|-----------------------------------------------------|
| Degree of protection IP (IEC 60529)      | IP66                                                |
| Degree of protection (IP) UL             | IP66                                                |
| Enclosure material                       | Stainless steel 1.4404, (AISI 316L), brush finished |
| Material note                            | special version on request                          |
| External protective conductor connection | M8                                                  |
| Silicone-free                            | No                                                  |
| Connection cross-section                 | 10 mm²                                              |
| Connection cross-section AWG             | 8 AWG                                               |
| Cover thickness                          | 2 mm                                                |
| Cover thickness in inches                | 0.079 in                                            |
| Wall thickness                           | 1.5 mm                                              |
| Wall thickness in inches                 | 0.059 in                                            |
| Dimensions (WxHxD)                       | 176.5 x 176.5 x 91 mm                               |
| Dimensions (WxHxD) inch                  | 7 x 7 x 3.6 inch                                    |
| Width                                    | 176.5 mm                                            |
| Width, inches                            | 6.945 in                                            |
| Height                                   | 176.5 mm                                            |
| Height in inches                         | 6.945 in                                            |
| Depth                                    | 91 mm                                               |
| Depth in inches                          | 3.583 in                                            |
| Weight                                   | 8 kg                                                |
| Weight                                   | 17.64 lb                                            |

### Mounting / Installation

|                                           |              |
|-------------------------------------------|--------------|
| Tightening torque lbf in                  | 0 lbf-in     |
| Tightening torque of cover screw 1        | 4.5 N · m    |
| 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 133 mm (1x)                                       |
| Terminal rail                     | 1.38 x 5.24" (1x)                                      |
| Type of terminals 1               | 1 x Phoenix UT<br>2-conductor, 10 mm², grey            |
| Type of grounding terminal 1      | 1 x Phoenix UT PE<br>2-conductor, 10 mm², green-yellow |

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

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.