

## Control Devices

### Moving coil ammeter Direct measuring

#### Ammeter

8407C6-420-2 Art. No. 263657

STAHL



- Ammeters in various versions, for Ex e enclosures
- Quicker comparison of measured values using externally adjustable red pointers on the device
- Selection of different current measuring ranges

MY R. STAHL 8407B



R. STAHL Series 8407C6 ammeters are installed in Ex e type of protection enclosures. They provide measured values for circuits which can be quickly compared with the desired values via a red pointer affixed on the outside. The devices work with a moving iron movement with accuracy class 2.5.

## Technical Data

### Explosion Protection

|                                |  |
|--------------------------------|--|
| Scope of validity              | European Union (ATEX)<br>IECEX                     |
| Ex version                     | Ex e & Ex i  |
| Application range (zones)      | 1<br>2   |
| IECEX gas certificate          | IECEX SIQ 18.0002U                                 |
| IECEX gas explosion protection | Ex eb ib mb IIC T6 ... T4 Gb                       |
| IECEX firedamp certificate     | IECEX SIQ 18.0002U                                 |
| IECEX firedamp protection      | Ex eb ib mb I Mb                                   |
| ATEX gas certificate           | SIQ 18 ATEX 017 U                                  |
| ATEX gas explosion protection  | Ex II 2 G Ex eb ib mb IIC T6 ... T4 Gb             |
| ATEX firedamp certificate      | SIQ 18 ATEX 017 U                                  |
| ATEX firedamp protection       | Ex I M2 Ex eb ib mb I Mb                           |
| Certificates                   | ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KTL) |
| Explosion protection note      | For product label, see scope of validity.          |

### Electrical Data

|                                  |                           |
|----------------------------------|---------------------------|
| Rated insulation voltage         | 690 V                     |
| Rated operational current for AC | 0.02 A                    |
| Movement                         | 4 to 20 mA                |
| Overload scale                   | 2x                        |
| Overload capacity                | 10 x I <sub>n</sub> 5 sec |
| Frequency range                  | DC                        |

### Ambient Conditions

|                     |  |
|---------------------|--|
| Ambient temperature | -40 °C ... +40 °C (T6)<br>-40 °C ... +55 °C (T5)<br>-40 °C ... +70 °C (T4) |
|---------------------|--|

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#### Ambient Conditions

|                          |  |
|--------------------------|--|
| Ambient temperature      | -40 °F ... +104 °F (T6)<br>-40 °F ... +131 °F (T5)<br>-40 °F ... +158 °F (T4)  |
| Ambient temperature note | T6: $-40\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$<br>T5: $-40\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$<br>T4: $-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$ |
| Use at the height of     | 2000 m   |
| Degree of contamination  | 3  |

#### Mechanical Data

|  |                                       |
|--|---------------------------------------|
| Version  | direct measuring                      |
| Degree of protection (IP)                              | IP54                                  |
| Degree of protection (IP) terminals                    | IP20                                  |
| Enclosure material                                     | Polyamide                             |
| Silicone-free  | Yes                                   |
| Pane material  | Glass                                 |
| Terminals  | Screw connector (strain-relief clamp) |
| Max. USA finely stranded/flexible connection terminals | 11 AWG                                |
| Connection cross-section                               | 4 mm <sup>2</sup>                     |
| Min. connection cross section, solid                   | 1 mm <sup>2</sup>                     |
| Max. connection cross section, solid                   | 6 mm <sup>2</sup>                     |
| Min. connection cross-section, finely stranded         | 1 mm <sup>2</sup>                     |
| Max. connection cross-section, finely stranded         | 4 mm <sup>2</sup>                     |
| Stripping length                                       | 10 mm                                 |
| Stripping length inch                                  | 0.39 in                               |
| Min. tightening torque                                 | 1.2 Nm                                |
| Min. tightening torque lb                              | 10.62 lb                              |
| Max. tightening torque                                 | 1.5 Nm                                |
| Max. tightening torque lb                              | 13.27 lb                              |
| Width  | 72 mm                                 |
| Width in inches  | 2.83 in                               |
| Height   | 71.2 mm                               |
| Height, inches   | 2.8 in                                |
| Depth  | 72 mm                                 |
| Depth, inches  | 2.83 in                               |
| Accuracy class   | 2.5                                   |
| Weight   | 255 g                                 |
| Weight   | 0.56 lb                               |

#### Mounting / Installation

|                                     |  |
|-------------------------------------|--|
| Mounting                            | Variant 1: Engage on DIN rail<br>Variant 2: Mounting with screws on mounting plate |
| Mounting orientation                | Vertical   |
| Max. USA solid connection terminals | 9 AWG  |

# Control Devices

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Ammeter

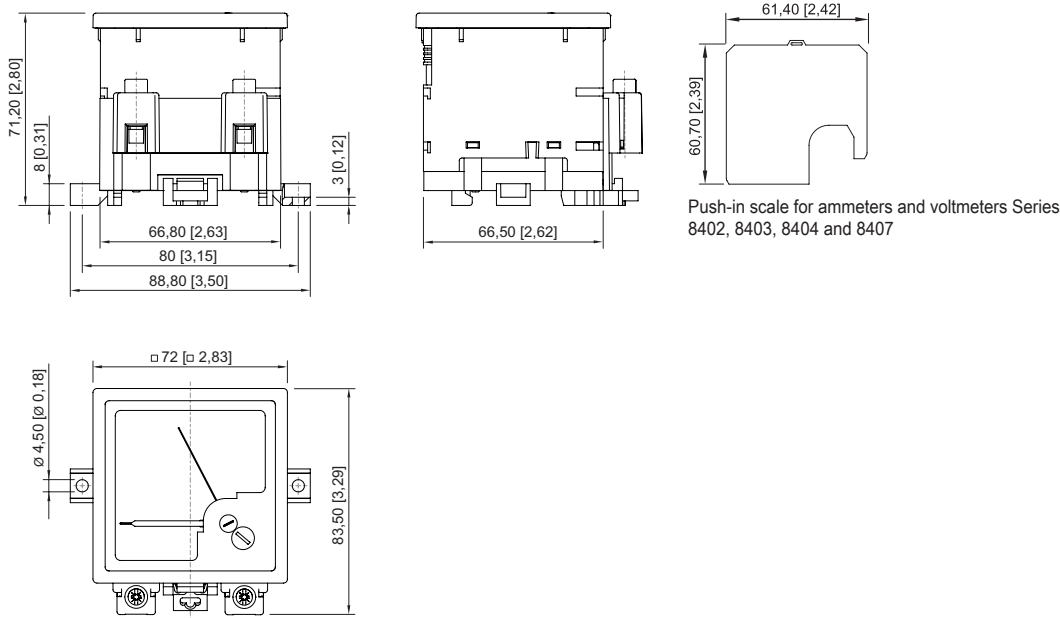
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## Components

|       |               |
|-------|---------------|
| Scale | 0 to 100/200% |
|-------|---------------|

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



## Spare Parts

### Calotte

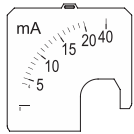


72 x 72 mm calotte [2.83 x 2.83 inch]; IP66

Art. No.

155942

### Push-in scales

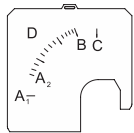


Overload: 2 times scale 4 ... 20 mA

Art. No.

266266

### Push-in scale according to specification



**Mandatory information**  
at 4 to 20 mA  $A_1, A_2, B, C, D$

$A_1$  = Zero point  
 $A_2$  = Measuring range start value  
B = Measuring range final value  
C = Overload value  
D = Unit

Art. No.

302953

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