

## Control Devices

### Moving coil ammeter Direct measuring

For Ex i electrical circuits Ammeter

8402C6-420 Art. No. 262237

STAHL



- Ammeters in various versions, for Ex i circuits and Ex e enclosures
- Quicker comparison of measured values using externally adjustable red pointers on the device
- Selection of different current measuring ranges of between 0 and 20 mA or 4 to 20 mA

MY R. STAHL 8402B



R. STAHL Series 8402C6 ammeters are installed in Ex e type of protection enclosures. They provide measured values for Ex i 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) IECEX
Ex version	Ex i
Application range (zones)	1 2 21 22
IECEX gas certificate	IECEX SIQ 18.0003X
IECEX gas explosion protection	Ex ib IIC T6 ... T4 Gb
IECEX firedamp certificate	IECEX SIQ 18.0003X
ATEX gas certificate	SIQ 18 ATEX 018 X
ATEX gas explosion protection	Ⓔ II 2 G Ex ib IIC T6 ... T4 Gb
ATEX firedamp certificate	SIQ 18 ATEX 018 X
Certificates	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KTL)

### Safety Data

Internal capacitance $C_i$	0 nF
Internal inductance $L_i$	90 $\mu$ H

### Electrical Data

Rated insulation voltage	300 V
Rated operational current for AC	0.02 A
Internal resistance $R_i$	3 $\Omega$
Max. short-circuit current	160 mA
Movement	4 to 20 mA
Overload capacity	without
Frequency range	DC

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#### Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature	-40 °F ... +104 °F (T6) -40 °F ... +131 °F (T5) -40 °F ... +158 °F (T4)
Ambient temperature note	T6: $-40\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$ T5: $-40\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$ 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	220 g
Weight	0.49 lb

#### Mounting / Installation

Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical

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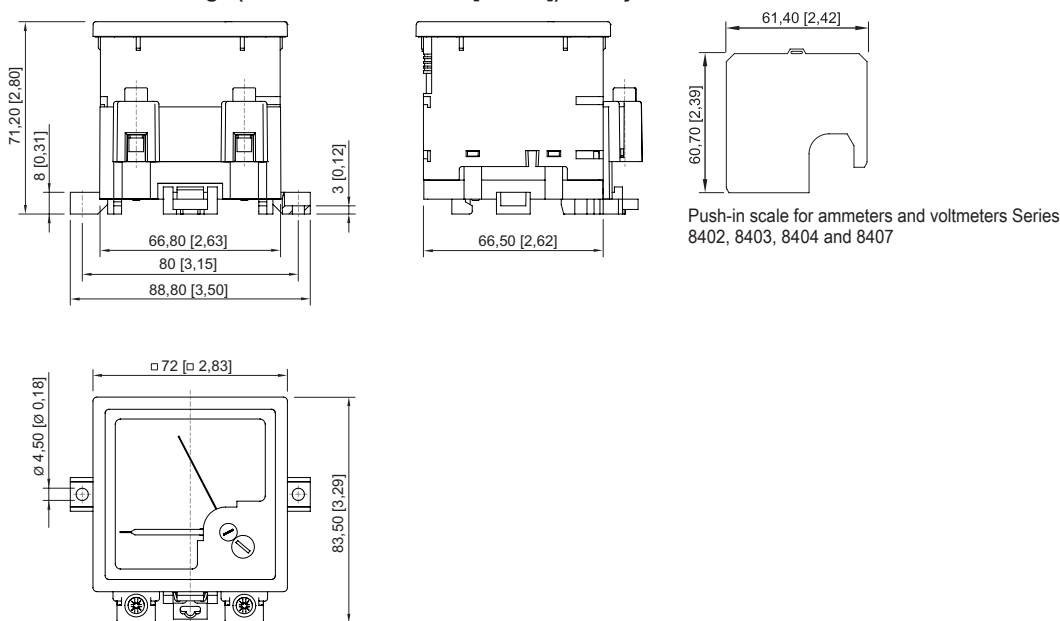
## Mounting / Installation

Max. USA solid connection terminals 9 AWG

## Components

Scale 4 to 20 mA

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



## Spare Parts

### Calotte

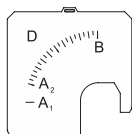


72 x 72 mm calotte [2.83 x 2.83 inch]; IP66

Art. No.

155942

### Push-in scale according to specification



#### Mandatory information

at 4 to 20 mA A<sub>1</sub>, A<sub>2</sub>, B, D

A<sub>1</sub> = Zero point

A<sub>2</sub> = Measuring range start value

B = Measuring range final value

D = Unit

Art. No.

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