



- Various versions of ammeters, for Ex i circuits and Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges from 0 to 20 mA or 4 to 20 mA

E4

MY R. STAHL 8402B



R. STAHL Series 8402C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current in Ex i circuits which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table				
Product Description		Moving coil ammeter Direct measuring For Ex i electrical circuits Ammeter		
Scale	Movement	Product Type	Art. No.	Weight
0 to 20 mA	0 to 20 mA	8402C6-020	262236	220 g
0 to 100%	0 to 20 mA	8402C6-020	267133	220 g
0 to 100%	4 to 20 mA	8402C6-420	267110	220 g
4 to 20 mA	4 to 20 mA	8402C6-420	262237	220 g

Technical Data	
Explosion Protection	
Scope of validity	European Union (ATEX) IECEx
IECEx gas explosion protection	Ex ib IIC T6 ... T4 Gb
ATEX gas explosion protection	II 2 G Ex ib IIC T6 ... T4 Gb
Certificates	ATEX (SIQ), Brazil (ULB), IECEx (SIQ), Korea (KTL)
Explosion protection note	For product label, see scope of validity.
Safety Data	
Internal capacitance C _i	0 nF
Internal inductance L _i	90 µH
Electrical Data	
Rated insulation voltage	300 V
Rated operational current for AC	0.02 A
Internal resistance R _i	3 Ω
Max. short-circuit current	160 mA
Overload capacity	without

Technical Data

Ambient Conditions

Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
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Use at the height of	2000 m
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Degree of contamination	3
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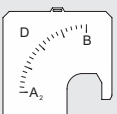
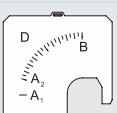
Mechanical Data

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)
Min. connection cross section, solid	1 mm ²
Max. connection cross section, solid	6 mm ²
Min. connection cross-section, finely stranded	1 mm ²
Max. connection cross-section, finely stranded	4 mm ²
Stripping length	10 mm
Max. tightening torque	1.5 Nm
Accuracy class	2.5

Mounting / Installation

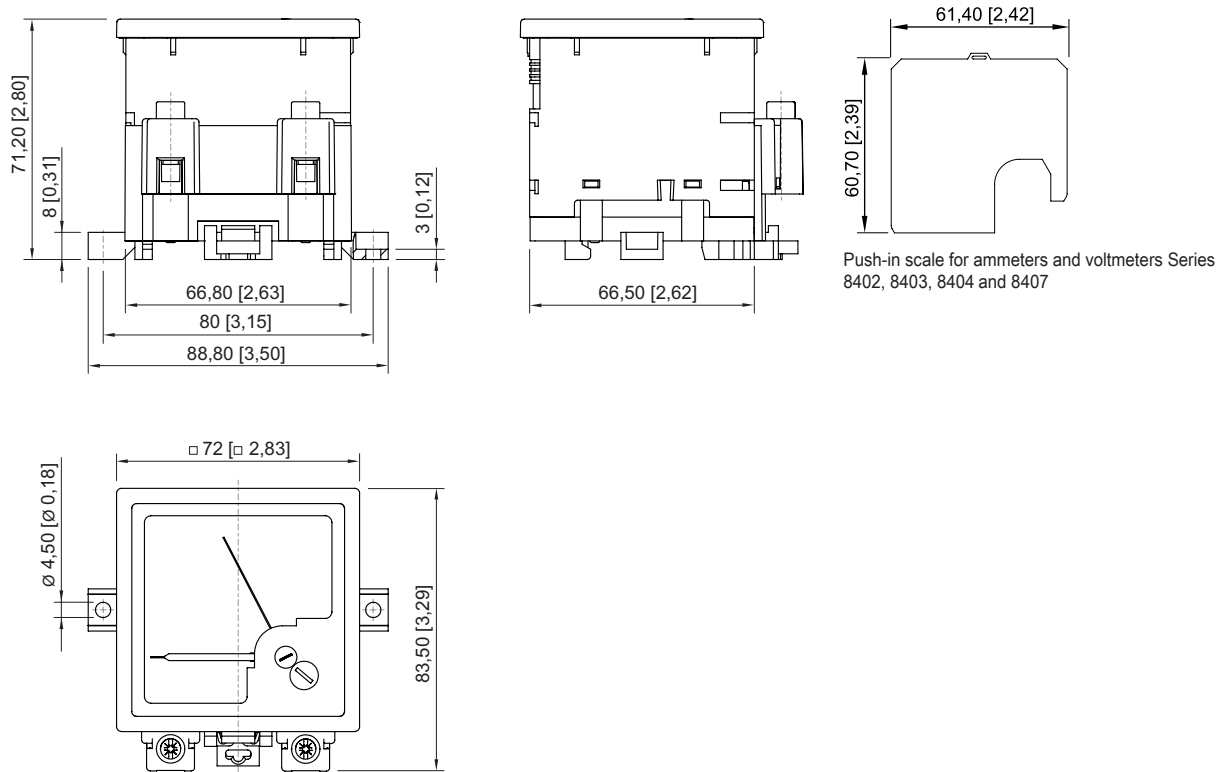
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical

Spare Parts

Figure	Description	Art. No.	Weight
Calotte			
	72 x 72 mm calotte [2.83 x 2.83 inch]; IP66	155942	25 g
Push-in scale according to specification			
	Mandatory information at 0 to 20 mA A ₂ , B, D A ₂ = measuring range starting value B = measuring range end value D = unit	265188	-
	Mandatory information at 4 to 20 mA A ₁ , A ₂ , B, D A ₁ = zero point A ₂ = measuring range starting value B = measuring range end value D = unit	302951	10 g

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

E4





- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- On models with CT connection (1 A, 5 A), it is possible to easily and rapidly assign the measuring range using the push-in scale plate

E4

MY R. STAHL 8403B



R. STAHL Series 8403C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

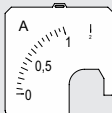
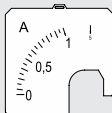
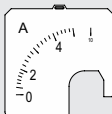
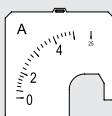
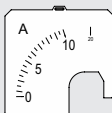
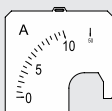
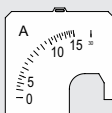
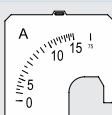
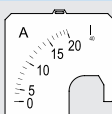
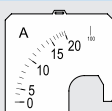
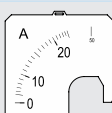
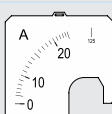
Selection Table

Product description Overload scale		Moving iron ammeter Direct measuring 2x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
0 to 1/2 A	0 to 1 A	1 A	50 x I _N 1 sec	8403C6-1-2	262731	310 g
0 to 2.5/5 A	0 to 2.5 A	2.5 A	50 x I _N 1 sec	8403C6-2,5-2	262734	345 g
0 to 4/8 A	0 to 4 A	4 A	50 x I _N 1 sec	8403C6-4-2	262707	220 g
0 to 10/20 A	0 to 10 A	10 A	50 x I _N 1 sec	8403C6-10-2	262735	310 g
0 to 15/30 A	0 to 15 A	15 A	50 x I _N 1 sec	8403C6-15-2	262738	310 g
0 to 25/50 A	0 to 25 A	25 A	30 x U _N 1 sec	8403C6-25-2	262706	310 g
Product description Overload scale		Moving iron ammeter For transducer 2x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
0 to 100/200%	0 to 1 A	1 A	50 x I _N 1 sec	8403C6-1T-2	267134	350 g
without	0 to 1 A	1 A	50 x I _N 1 sec	8403C6-1T-2	262732	310 g
without	0 to 5 A	5 A	50 x I _N 1 sec	8403C6-5T-2	262736	310 g
Product description Overload scale		Moving iron ammeter For transducer 5x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
without	0 to 1 A	1 A	50 x I _N 1 sec	8403C6-1T-5	262733	310 g
without	0 to 5 A	5 A	50 x I _N 1 sec	8403C6-5T-5	262737	310 g

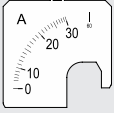
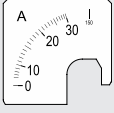
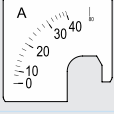
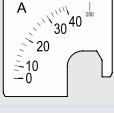
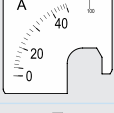
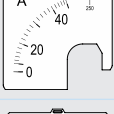
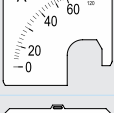
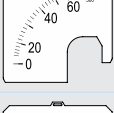
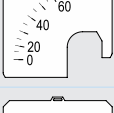
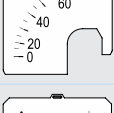
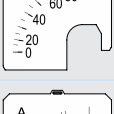
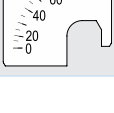
Moving iron ammeter for transducer: Please order scales separately
Lens not included in the delivery

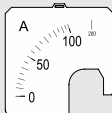
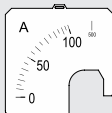
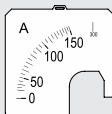
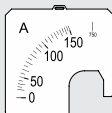
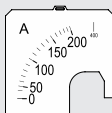
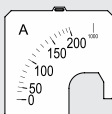
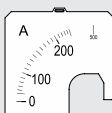
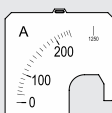
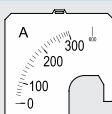
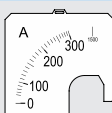
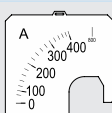
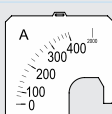
Technical Data			
Variant	8403C6-...	8403C6-10-2 8403C6-15-2	8403C6-25-2
Explosion Protection			
Area of application	European Union (ATEX) IECEX	European Union (ATEX) IECEX	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex eb IIC T6 ... T4 Gb	Ex eb mb IIC T6 ... T4 Gb	Ex eb IIC T6 ... T4 Gb
IECEX firedamp protection	Ex eb I Mb	Ex eb mb I Mb	Ex eb I Mb
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb	Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb
ATEX firedamp protection	Ⓔ I M2 Ex eb I Mb	Ⓔ I M2 Ex eb mb I Mb	Ⓔ I M2 Ex eb I Mb
Certificates	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS)	ATEX (SIQ), Brazil (ULB), Canada / USA (UL), IECEX (SIQ), Korea (KGS)	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS)
Explosion protection note	For product label, see scope of validity.	For product label, see scope of validity.	For product label, see scope of validity.
Electrical Data			
Rated insulation voltage	690 V	690 V	690 V
Frequency	50/60 Hz AC, DC	50/60 Hz AC, DC	50/60 Hz AC, DC
Power dissipation	0.67 VA	0.67 VA	0.67 VA
Ambient Conditions			
Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature note	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C
Use at the height of	2000 m	2000 m	2000 m
Degree of pollution	3	3	3
Notes	Temperature class depending on the starting current (overload – time); see online at r-stahl.com. WebCode 8403B		
Mechanical Data			
Degree of protection (IP)	IP54	IP54	IP54
Degree of protection (IP) terminals	IP20	IP20	IP20
Enclosure material	Polycarbonate	Polycarbonate	Polycarbonate
Silicone-free	No	No	No
Pane material	Glass	Glass	Glass
Terminals	Screw connector (strain-relief clamp)	Screw connector (strain-relief clamp)	Screw connector (strain-relief clamp)
Min. connection cross section, solid	2,5 mm²	2,5 mm²	6 mm²
Max. connection cross section, solid	10 mm²	10 mm²	10 mm²
Max. connection cross-section, finely stranded	6 mm²	6 mm²	6 mm²
Stripping length	10 mm	10 mm	10 mm
Accuracy class	2.5	2.5	2.5
Max. tightening torque	1.5 Nm	1.5 Nm	1.5 Nm
Mounting / Installation			
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical	Vertical	Vertical

Spare Parts			
Figure	Description	Art. No.	Weight
	Calotte [2.83 x 2.83 inch]; IP66	155942	75 g

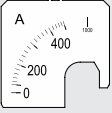
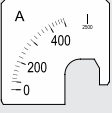
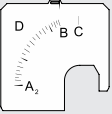
Spare Parts				
Figure	Description		Art. No.	Weight
Push-in scales				
	Overload: 2 times	Scale: 0 to 1 A	265717	4 g
	Overload: 5 times	Scale: 0 to 1 A	265718	4 g
	Overload: 2 times	Scale: 0 to 5 A	265719	4 g
	Overload: 5 times	Scale: 0 to 5 A	265720	4 g
	Overload: 2 times	Scale: 0 to 10 A	265721	4 g
	Overload: 5 times	Scale: 0 to 10 A	265722	4 g
	Overload: 2 times	Scale: 0 to 15 A	265723	4 g
	Overload: 5 times	Scale: 0 to 15 A	265724	4 g
	Overload: 2 times	Scale: 0 to 20 A	265725	4 g
	Overload: 5 times	Scale: 0 to 20 A	265726	4 g
	Overload: 2 times	Scale: 0 to 25 A	265727	4 g
	Overload: 5 times	Scale: 0 to 25 A	265728	4 g

Spare Parts

Figure	Description	Art. No.	Weight
Push-in scales			
	Overload: 2 times Scale: 0 to 30 A	265729	4 g
	Overload: 5 times Scale: 0 to 30 A	265730	4 g
	Overload: 2 times Scale: 0 to 40 A	265731	4 g
	Overload: 5 times Scale: 0 to 40 A	265732	4 g
	Overload: 2 times Scale: 0 to 50 A	265733	4 g
	Overload: 5 times Scale: 0 to 50 A	265734	4 g
	Overload: 2 times Scale: 0 to 60 A	265735	4 g
	Overload: 5 times Scale: 0 to 60 A	265736	4 g
	Overload: 2 times Scale: 0 to 75 A	265737	4 g
	Overload: 5 times Scale: 0 to 75 A	265738	4 g
	Overload: 2 times Scale: 0 to 80 A	265739	4 g
	Overload: 5 times Scale: 0 to 80 A	265740	4 g

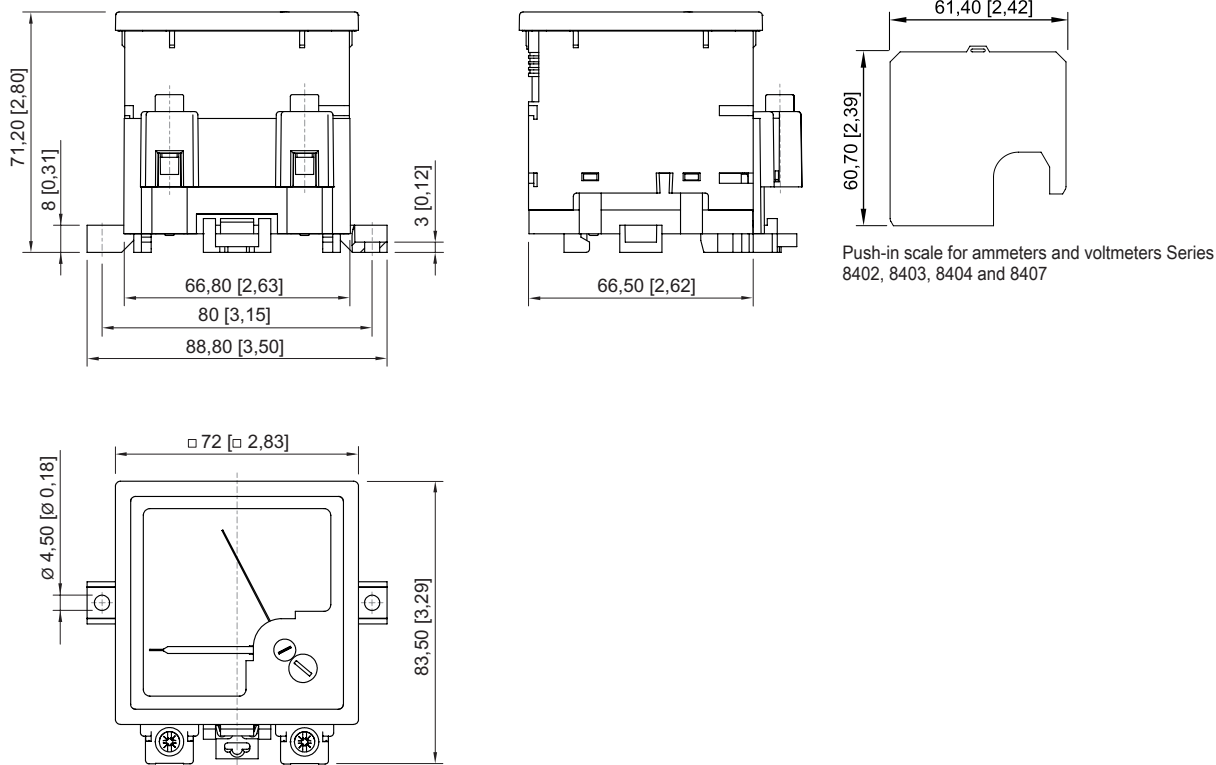
Spare Parts				
Figure	Description		Art. No.	Weight
Push-in scales				
	Overload: 2 times	Scale: 0 to 100 A	265741	4 g
	Overload: 5 times	Scale: 0 to 100 A	265742	4 g
	Overload: 2 times	Scale: 0 to 150 A	265743	4 g
	Overload: 5 times	Scale: 0 to 150 A	265744	4 g
	Overload: 2 times	Scale: 0 to 200 A	265745	4 g
	Overload: 5 times	Scale: 0 to 200 A	265746	4 g
	Overload: 2 times	Scale: 0 to 250 A	265747	4 g
	Overload: 5 times	Scale: 0 to 250 A	265748	4 g
	Overload: 2 times	Scale: 0 to 300 A	265750	4 g
	Overload: 5 times	Scale: 0 to 300 A	265751	4 g
	Overload: 2 times	Scale: 0 to 400 A	265752	4 g
	Overload: 5 times	Scale: 0 to 400 A	265753	4 g

Spare Parts

Figure	Description	Art. No.	Weight
Push-in scales			
	Overload: 2 times Scale: 0 to 500 A	265754	4 g
	Overload: 5 times Scale: 0 to 500 A	265755	4 g
Push-in scale according to specification			
	Mandatory information A ₂ = measuring range starting value B = measuring range end value C = overload value D = unit	265189	-

other scales on request

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





- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges

E4

MY R. STAHL 8405B



R. STAHL Series 8405C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table

Product description Overload scale		Moving iron ammeter Direct measuring 2x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
0 to 1/2 A	0 to 1 A	1 A	50 x I _N 1 sec	8405C6-1-2	262952	140 g
0 to 4/8 A	0 to 4 A	4 A	50 x I _N 1 sec	8405C6-4-2	262955	140 g
0 to 10/20 A	0 to 10 A	10 A	50 x I _N 1 sec	8405C6-10-2	262958	140 g
0 to 15/30 A	0 to 15 A	15 A	30 x U _N 1 sec	8405C6-15-2	262959	140 g
Product description Overload scale		Moving iron ammeter For transducer 2x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
without	0 to 1 A	1 A	50 x I _N 1 sec	8405C6-1T-2	262953	140 g
without	0 to 5 A	5 A	50 x I _N 1 sec	8405C6-5T-2	262956	140 g
Product description Overload scale		Moving iron ammeter For transducer 5x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
without	0 to 1 A	1 A	50 x I _N 1 sec	8405C6-1T-5	262954	140 g
without	0 to 5 A	5 A	50 x I _N 1 sec	8405C6-5T-5	262957	140 g

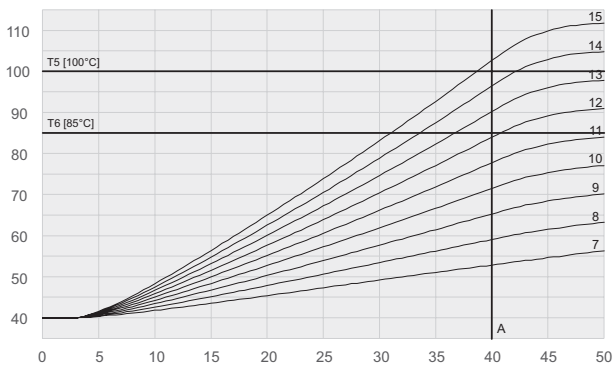
Moving iron ammeter for transducer: Please order scales separately
Lens not included in the delivery

Technical Data			
Variant	8405C6-...	8405C6-10-2	8405C6-15-2
Explosion Protection			
Area of application	European Union (ATEX) IECEX	European Union (ATEX) IECEX	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex eb IIC T6 ... T4 Gb	Ex eb mb IIC T6 ... T4 Gb	Ex eb mb IIC T6 ... T4 Gb
IECEX firedamp protection	Ex eb I Mb	Ex eb mb I Mb	Ex eb mb I Mb
ATEX gas explosion protection	Ⓔ II 2 G Ex eb IIC T6 ... T4 Gb	Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb	Ⓔ II 2 G Ex eb mb IIC T6 ... T4 Gb
ATEX firedamp protection	Ⓔ I M2 Ex eb I Mb	Ⓔ I M2 Ex eb mb I Mb	Ⓔ I M2 Ex eb mb I Mb
Certificates	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS)	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS)	ATEX (SIQ), Brazil (ULB), IECEX (SIQ), Korea (KGS)
Explosion protection note	For product label, see scope of validity.	For product label, see scope of validity.	For product label, see scope of validity.
Electrical Data			
Rated insulation voltage	690 V	690 V	690 V
Frequency	50/60 Hz AC, DC	50/60 Hz AC, DC	50/60 Hz AC, DC
Power dissipation	0.67 VA	0.67 VA	0.67 VA
Ambient Conditions			
Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature note	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C
Use at the height of	2000 m	2000 m	2000 m
Degree of pollution	3	3	3
Notes	Temperature class depending on the starting current (overload – time); see online at r-stahl.com. WebCode 8405B		
Mechanical Data			
Degree of protection (IP)	IP54	IP54	IP54
Degree of protection (IP) terminals	IP20	IP20	IP20
Enclosure material	Polycarbonate	Polycarbonate	Polycarbonate
Silicone-free	No	No	No
Pane material	Glass	Glass	Glass
Terminals	Screw connector (strain-relief clamp)	Screw connector (strain-relief clamp)	Screw connector (strain-relief clamp)
Min. connection cross section, solid	2,5 mm²	2,5 mm²	4 mm²
Max. connection cross section, solid	10 mm²	10 mm²	10 mm²
Max. connection cross-section, finely stranded	6 mm²	6 mm²	6 mm²
Accuracy class	2.5	2.5	2.5
Max. tightening torque	1.5 Nm	1.5 Nm	1.5 Nm
Stripping length	10 mm	10 mm	10 mm
Mounting / Installation			
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery)	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery)	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery)
Mounting orientation	Vertical	Vertical	Vertical

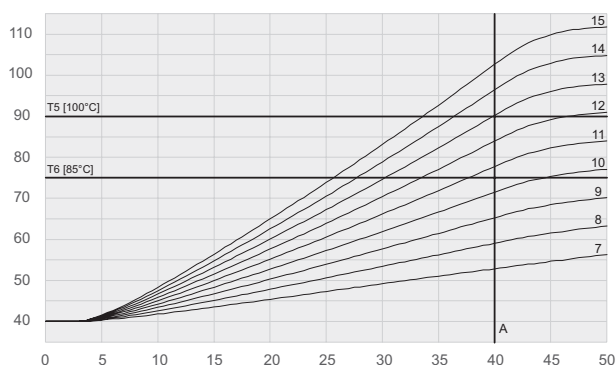
Technical Drawings – Subject to Alterations

E4

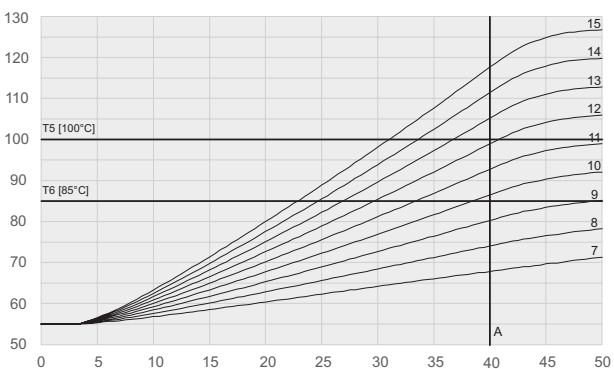
8405/6-1T-5-Ta = 40°C



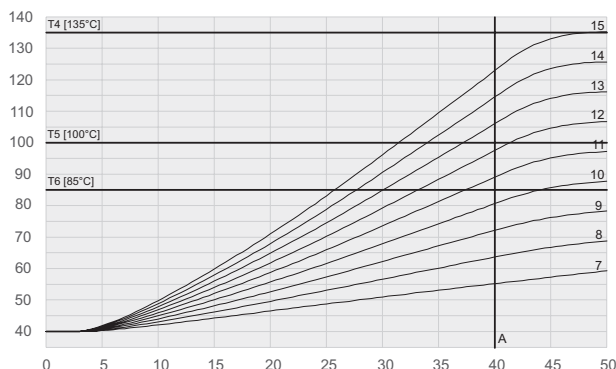
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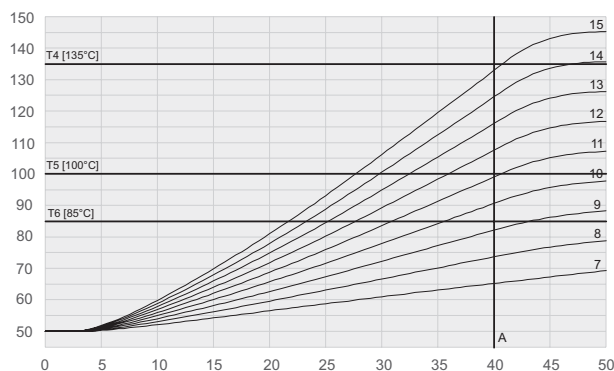
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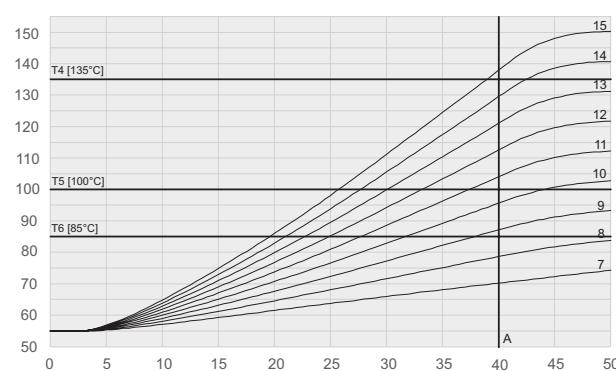
8405/6-5T-5-Ta = 40°C



8405/6-5T-5-Ta = 50°C



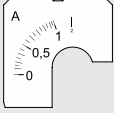
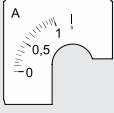
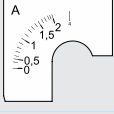
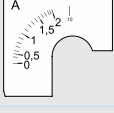
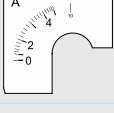
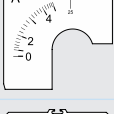
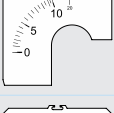
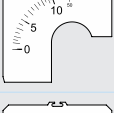
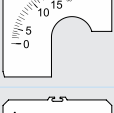
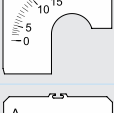
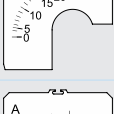
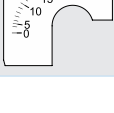
8405/6-5T-5-Ta = 55°C

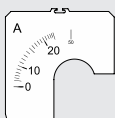
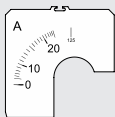
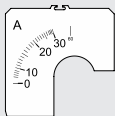
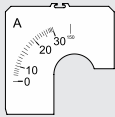
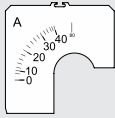
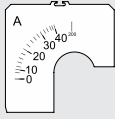
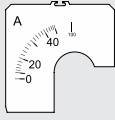
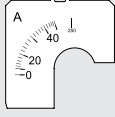
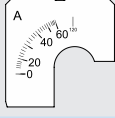
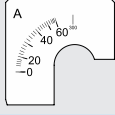
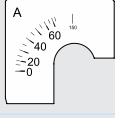
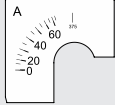


Spare Parts

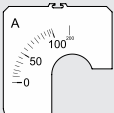
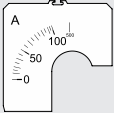
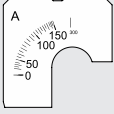
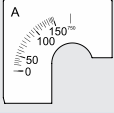
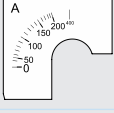
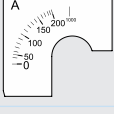
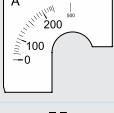
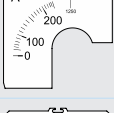
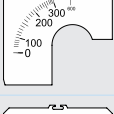
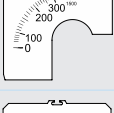
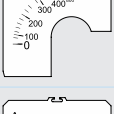
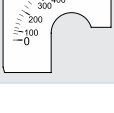
Figure	Description	Art. No.	Weight
Calotte			
	Calotte [2.52 x 2.52 inch]; IP66	155940	70 g

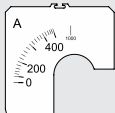
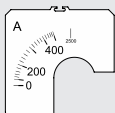
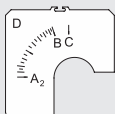
Spare Parts

Figure	Description	Art. No.	Weight
Push-in scales			
	Overload: 2 times Scale: 0 to 1 A	265871	1 g
	Overload: 5 times Scale: 0 to 1 A	265824	1 g
	Overload: 2 times Scale: 0 to 2 A	265825	1 g
	Overload: 5 times Scale: 0 to 2 A	265826	1 g
	Overload: 2 times Scale: 0 to 5 A	265827	1 g
	Overload: 5 times Scale: 0 to 5 A	265828	1 g
	Overload: 2 times Scale: 0 to 10 A	265829	1 g
	Overload: 5 times Scale: 0 to 10 A	265830	1 g
	Overload: 2 times Scale: 0 to 15 A	265832	1 g
	Overload: 5 times Scale: 0 to 15 A	265831	1 g
	Overload: 2 times Scale: 0 to 20 A	265833	1 g
	Overload: 5 times Scale: 0 to 20 A	265834	1 g

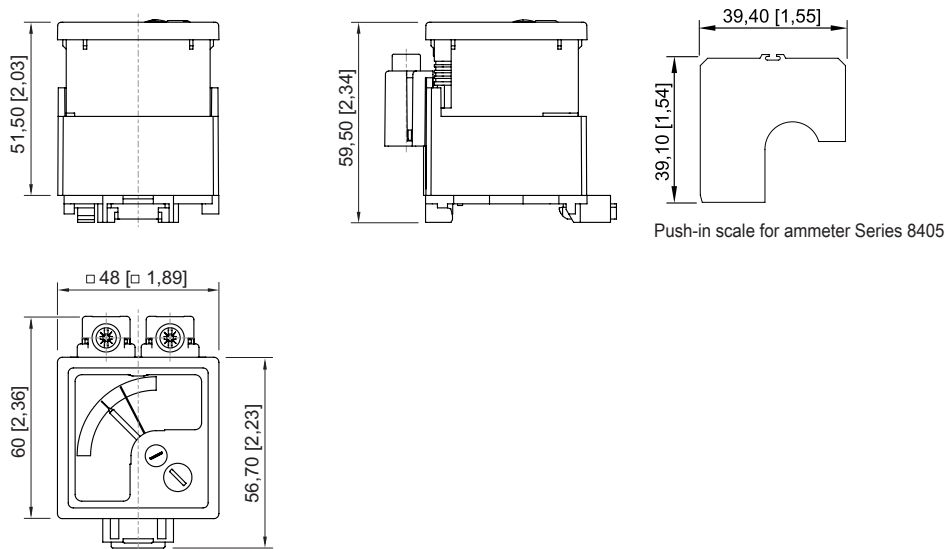
Spare Parts				
Figure	Description		Art. No.	Weight
Push-in scales				
	Overload: 2 times	Scale: 0 to 25 A	265835	1 g
	Overload: 5 times	Scale: 0 to 25 A	265836	1 g
	Overload: 2 times	Scale: 0 to 30 A	265837	1 g
	Overload: 5 times	Scale: 0 to 30 A	265838	1 g
	Overload: 2 times	Scale: 0 to 40 A	265839	1 g
	Overload: 5 times	Scale: 0 to 40 A	265840	1 g
	Overload: 2 times	Scale: 0 to 50 A	265851	1 g
	Overload: 5 times	Scale: 0 to 50 A	265852	1 g
	Overload: 2 times	Scale: 0 to 60 A	265853	1 g
	Overload: 5 times	Scale: 0 to 60 A	265854	1 g
	Overload: 2 times	Scale: 0 to 75 A	265855	1 g
	Overload: 5 times	Scale: 0 to 75 A	265856	1 g

Spare Parts

Figure	Description	Art. No.	Weight
Push-in scales			
	Overload: 2 times Scale: 0 to 100 A	265857	1 g
	Overload: 5 times Scale: 0 to 100 A	265858	1 g
	Overload: 2 times Scale: 0 to 150 A	265859	1 g
	Overload: 5 times Scale: 0 to 150 A	265860	1 g
	Overload: 2 times Scale: 0 to 200 A	265861	1 g
	Overload: 5 times Scale: 0 to 200 A	265862	1 g
	Overload: 2 times Scale: 0 to 250 A	265863	1 g
	Overload: 5 times Scale: 0 to 250 A	265864	1 g
	Overload: 2 times Scale: 0 to 300 A	265865	1 g
	Overload: 5 times Scale: 0 to 300 A	265866	1 g
	Overload: 2 times Scale: 0 to 400 A	265867	1 g
	Overload: 5 times Scale: 0 to 400 A	265868	1 g

Spare Parts				
Figure	Description		Art. No.	Weight
Push-in scales				
	Overload: 2 times	Scale: 0 to 500 A	265869	1 g
	Overload: 5 times	Scale: 0 to 500 A	265870	1 g
Push-in scale according to specification				
	Mandatory information: A ₂ = measuring range starting value B = measuring range end value C = overload value D = unit		265261	-

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





- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges

E4

MY R. STAHL 8406B



R. STAHL Series 8406C6 ammeters are installed in enclosures with Ex e type of protection. They provide measured values for the current which can be quickly compared with the target values via a red pointer affixed on the outside. The devices use a moving iron movement with accuracy class 2.5.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table						
Product Description Overload scale		Moving coil ammeter Direct measuring Ammeter 2x				
Scale	Movement	Rated operational current for AC	Overload capacity	Product Type	Art. No.	Weight
without	0 to 20 mA	0.02 A	10 x I _N 5 sec	8406C6-020-2	263571	140 g
Please order scales separately						

Technical Data	
Explosion Protection	
Scope of validity	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex eb ib mb IIC T6 ... T4 Gb
IECEX firedamp protection	Ex eb ib mb I Mb
ATEX gas explosion protection	Ex II 2 G Ex eb ib mb IIC T6 ... T4 Gb
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
Ambient Conditions	
Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)
Ambient temperature note	T6: -40 °C ≤ T _{amb} ≤ +40 °C T5: -40 °C ≤ T _{amb} ≤ +55 °C T4: -40 °C ≤ T _{amb} ≤ +70 °C
Use at the height of	2000 m

Technical Data

Ambient Conditions

Degree of contamination	3
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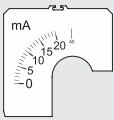
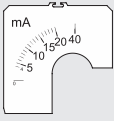
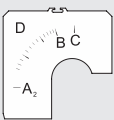
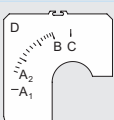
Mechanical Data

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)
Min. connection cross section, solid	1 mm ²
Max. connection cross section, solid	6 mm ²
Max. connection cross-section, finely stranded	4 mm ²
Accuracy class	2.5
Max. tightening torque	1.5 Nm
Stripping length	10 mm

Mounting / Installation

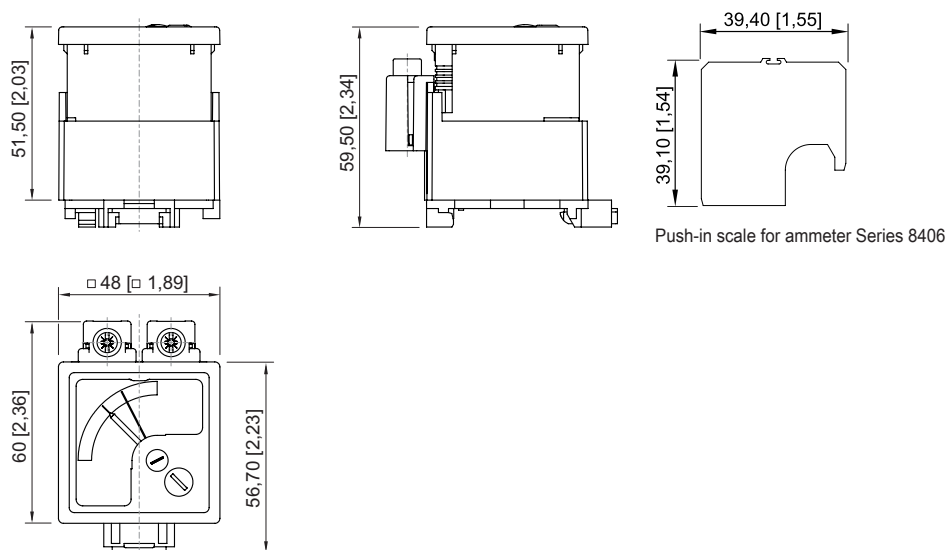
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate (assembly accessories included in delivery)
Mounting orientation	Vertical

Spare Parts

Figure	Description	Art. No.	Weight
Calotte			
	64 x 64 mm calotte [2.52 x 2.52 inch]; IP66	155940	500 g
Push-in scale			
	Overload: 2 times Scale: 0 to 20 mA	266267	1 g
	Overload: 2 times Scale: 4 to 20 mA	266268	1 g
Push-in scale according to specification			
	Mandatory information at 0 to 20 mA A_2 , B, C, D A_2 = measuring range starting value B = measuring range end value C = overload value D = unit	265262	-
	Mandatory information at 4 to 20 mA A_1 , A_2 , B, C, D A_1 = zero point A_2 = measuring range starting value B = measuring range end value C = overload value D = unit	302952	10 g

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

E4





- Various versions of ammeters, for Ex e enclosures
- Quick comparison of measured values using externally adjustable red pointer on the device
- Selection of various current measuring ranges

E4

MY R. STAHL 8407B



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

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•			

Selection Table

Product Description Overload scale		Moving coil ammeter Direct measuring Ammeter 2x			
Scale	Movement	Rated operational current for AC	Product Type	Art. No.	Weight
0 to 100/200%	0 to 20 mA	0.02 A	8407C6-020-2	263656	250 g
0 to 100/200%	4 to 20 mA	0.02 A	8407C6-420-2	263657	255 g
without	0 to 20 mA	0.02 A	8407C6-020-2	263655	240 g

Please order scales separately

Technical Data

Explosion Protection	
Scope of validity	European Union (ATEX) IECEX
IECEX gas explosion protection	Ex eb ib mb IIC T6 ... T4 Gb
IECEX firedamp protection	Ex eb ib mb I Mb
ATEX gas explosion protection	Ex II 2 G Ex eb ib mb IIC T6 ... T4 Gb
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
Overload capacity	10 x I _N 5 sec
Ambient Conditions	
Ambient temperature	-40 °C ... +40 °C (T6) -40 °C ... +55 °C (T5) -40 °C ... +70 °C (T4)

Technical Data

Ambient Conditions

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: $-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$
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Use at the height of	2000 m
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Degree of contamination	3
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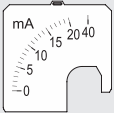
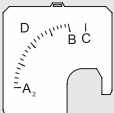
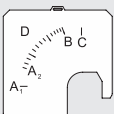
Mechanical Data

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)
Min. connection cross section, solid	1 mm ²
Max. connection cross section, solid	6 mm ²
Max. connection cross-section, finely stranded	4 mm ²
Accuracy class	2.5
Max. tightening torque	1.5 Nm
Stripping length	10 mm

Mounting / Installation

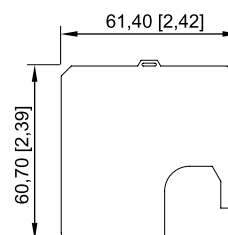
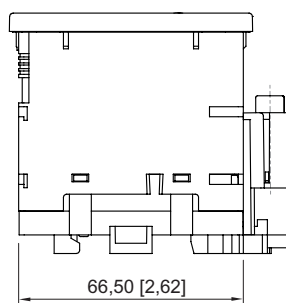
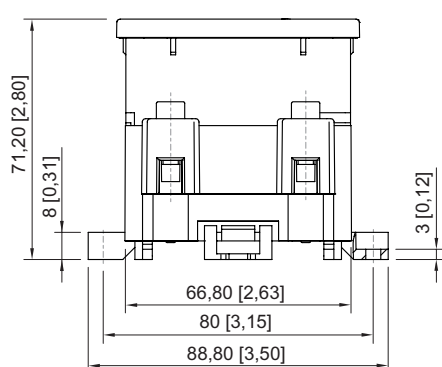
Mounting	Variant 1: Engage on DIN rail Variant 2: Mounting with screws on mounting plate
Mounting orientation	Vertical

Spare Parts

Figure	Description	Art. No.	Weight
Calotte			
	72 x 72 mm calotte [2.83 x 2.83 inch]; IP66	155942	25 g
Push-in scales			
	Overload: 2 times Scale: 0 to 20 mA	266265	4 g
	Overload: 2 times Scale: 4 to 20 mA	266266	4 g
Push-in scale according to specification			
	Mandatory information at 0 to 20 mA A ₂ = measuring range starting value B = measuring range end value C = overload value D = unit A ₂ , B, C, D	265263	-
	Mandatory information at 4 to 20 mA A ₁ = zero point A ₂ = measuring range starting value B = measuring range end value C = overload value D = unit A ₁ , A ₂ , B, C, D	302953	10 g

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

E4



Push-in scale for ammeters and voltmeters Series 8402, 8403, 8404 and 8407

