

Network and Wireless Solutions

ISbus fieldbus technology Ex m fieldbus terminator

For Zone 1

9418/01-201-10 Art. No. 168062



- Fieldbus terminator for PROFIBUS PA and FOUNDATION™ Fieldbus H1 fieldbuses
- Zone 1 end-of-line resistor in 'm' version for non-intrinsically safe fieldbuses (high-power trunk)
- Extremely compact type of construction for installation in M20 cable entries
- For direct use in enclosures or field devices

MY R. STAHL 9418A



The Ex m fieldbus terminators in series 9418 are used as end-of-line resistors for PROFIBUS PA or FOUNDATION™ Fieldbus H1 fieldbuses. In Ex m version for non-intrinsically safe (high-power trunk) fieldbuses. Extremely compact design for space-saving installation in M20 cable entries, also easily visible when installed.

Technical Data

Explosion Protection

| | |
|---------------------------------|--|
| Application range (Zones) | 1 2 21 22 |
| Ex interface zone | 1 2 21 22 |
| IECEX gas certificate | IECEX PTB 08.0007 |
| IECEX gas explosion protection | Ex mb IIC T5 / T6 Gb |
| IECEX dust certificate | IECEX PTB 08.0007 |
| IECEX dust explosion protection | Ex tb IIIC T65 °C / T100 °C Db |
| ATEX gas certificate | PTB 07 ATEX 2053 |
| ATEX gas explosion protection | ⊕ II 2 G Ex mb IIC T5 / T6 Gb |
| ATEX dust certificate | PTB 07 ATEX 2053 |
| ATEX dust explosion protection | ⊕ II 2 D Ex tb IIIC T65 °C / T100 °C Db |
| FMus certificate | 3026646 |
| cFM certificate | 3026646C |
| Marking cFMus | NI, Class I, Div. 2, Groups A,B,C,D; T5, T6 Class I, Zone 1, AEx/Ex mb IIC T5 , T6 Class II,III, Zone 21 AEx/Ex mbD T100°C , T65°C T5 at Ta = 75°C , T6 at Ta = 40°C See Doc. 9410 6 031 001 1 |
| Certificates | ATEX (PTB), Canada (FM), IECEX (PTB), USA (FM) |

Safety Data

| | |
|--------------|------|
| Max. voltage | 50 V |
|--------------|------|

Electrical Data

| | |
|-------------------------|-------------------------------|
| Electrical data version | Ex m fieldbus terminator |
| Fieldbus | Non-intrinsically safe (Ex e) |

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Electrical Data

| | |
|--------------------------|---------------------|
| Physical Layer fieldbus | acc. to IEC 61158-2 |
| EOL resistor capacitance | 1 μ F |
| Resistance value | 100 Ω |

Auxiliary Power

| | |
|---------------------------|-------------|
| Nominal voltage V_{nom} | ≤ 32 V |
|---------------------------|-------------|

Ambient Conditions

| | |
|----------------------------------|---|
| Ambient temperature $^{\circ}$ C | -40 $^{\circ}$ C ... +75 $^{\circ}$ C (T5) -40 $^{\circ}$ C ... +40 $^{\circ}$ C (T6) |
| Ambient temperature $^{\circ}$ F | -40 $^{\circ}$ F ... +167 $^{\circ}$ F (T5) -40 $^{\circ}$ F ... +104 $^{\circ}$ F (T6) |
| Storage temperature $^{\circ}$ C | -40 $^{\circ}$ C ... +80 $^{\circ}$ C |
| Storage temperature $^{\circ}$ F | -40 $^{\circ}$ F ... +176 $^{\circ}$ F |
| Max. operating altitude | < 2000 m |
| Max. operating altitude, ft | < 6562 ft |
| Max. relative humidity | 95% (without condensation) |
| Electromagnetic compatibility | Tested to the following standards and regulations: EN 61326 (IEC/EN 61000-4-1 to 61000-4-6 and 61000-4-6-11), NAMUR NE21 |

Mechanical Data

| | |
|---------------------------------------|-------------------|
| Degree of protection (IP) (IEC 60529) | IP66 IP68 |
| Module enclosure | PA6 |
| Fire resistance (UL 94) | V0 |
| Pollutant class | Corresponds to G3 |
| Width | 14 mm |
| Width, inches | 0.55 in |
| Depth | 14 mm |
| Depth, inches | 0.55 in |
| Length | 32 mm |
| Length, inches | 1.26 in |
| Weight | 80 g |
| Weight | 0.18 lb |

Installation example



When installing the fieldbus terminator in a cable entry:

- It is used as a certified stopping plug
- Even when the enclosure is closed, it can be seen that an end-of-line resistor is connected to a device in the enclosure

Mounting / Installation

| | |
|----------------------|---|
| Mounting type | In certified enclosure With certified cable entry |
| Mounting orientation | any |
| Connection type | 2-wire conductor |

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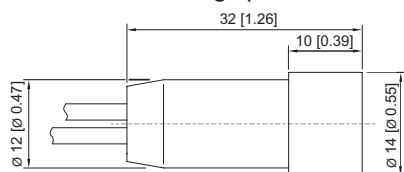
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Mounting / Installation

| | |
|--|----------------------|
| Single wire cross-section with core end sleeve | 0.75 mm ² |
| Single wire cross-section with core end sleeve AWG | AWG 20 |
| Wire length | Approx. 30 mm |
| Wire length in inches | 1.18 in |

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



Accessories

Cable gland made of plastic



81617-M20-1304, Ex e
Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm
Lot size 50 pieces

Art. No.

239156

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.