

Network technology

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
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Electrical Data

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

Electrical Data

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

Auxiliary Power

Nominal voltage	\leq 32 V
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Ambient Conditions

Ambient temperature	-40 °C ... +75 °C (T5) -40 °C ... +40 °C (T6)
Ambient temperature	-40 °F ... +167 °F (T5) -40 °F ... +104 °F (T6)
Storage temperature	-40 °C ... +80 °C
Storage temperature	-40 °F ... +176 °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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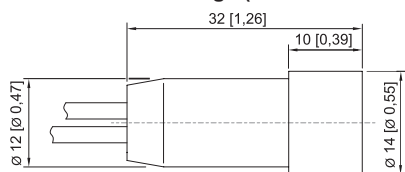
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Mounting / Installation

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.