



- Fieldbus terminator for PROFIBUS PA and FOUNDATION™ Fieldbus H1 fieldbuses
- Zone 1 end-of-line resistor in “i” version for FISCO/Entity fieldbuses
- Extremely compact design for installation in M20 cable entries
- For direct use in enclosures or field devices

MY R. STAHL 9418A



Series 9418 Ex i fieldbus terminators act as end-of-line resistors for PROFIBUS PA or FOUNDATION™ Fieldbus H1 fieldbuses. In Ex i version for intrinsically safe FISCO/Entity 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 ib IIC T5 / T6 Gb
IECEX dust certificate	IECEX PTB 08.0007
IECEX dust explosion protection	Ex ib IIIC T65 °C / T100 °C Db
ATEX gas certificate	PTB 07 ATEX 2053
ATEX gas explosion protection	⊕ II 2 G Ex ib IIC T5 / T6 Gb
ATEX dust certificate	PTB 07 ATEX 2053
ATEX dust explosion protection	⊕ II 2 D Ex ib 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 ib IIC T5 , T6 Class II,III, Zone 21 AEx/Ex ibD 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	As per FISCO IEC 60079-27
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Electrical Data

Electrical data version	Ex i/I.S fieldbus terminator
Fieldbus	Intrinsically safe (FISCO)
Physical Layer fieldbus	According to IEC 61158-2
EOL resistor capacitance	1 µF
Resistance value	100 Ω

Network technology

ISbus fieldbus technology Ex i fieldbus termin. (FISCO)

for Zone 1

9418/02-201-10 Art. No. 168063



Auxiliary Power

Nominal voltage	≤ 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 in inches	0.55 in
Length	32 mm
Length in 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 intrinsically safe circuits
Mounting orientation	any
Connection type	2-wire conductor
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

Network technology

ISbus fieldbus technology Ex i fieldbus termin. (FISCO)

for Zone 1

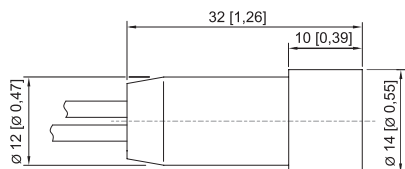
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Mounting / Installation

Wire length in inches	1.18 in
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Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Accessories

Plastic cable gland



8161/8-M20-1304, Ex i
Plastic, M20 x 1.5, cable outer diameter 4 to 13 mm
Lot size 50 pieces

Art. No.

239164

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.