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Fieldbus Terminator Series 9418

- Fieldbus Terminator for Profibus PA and FOUNDATION™ fieldbus
- For intrinsically safe (FISCO) or non-intrinsically safe fieldbuses
- Extremely compact design
- Simple installation in M20 cable glands
- For direct integration in enclosures or field devices

Zone	0	1	2	20	21	22
Ex interface		X	X		X	X
Installation in		X	X		X	X



The Fieldbus Terminator Series 9418 is used as a bus terminator for fieldbuses as per IEC 61158-2, e.g. Profibus PA or FOUNDATION™ fieldbus H1.

It is available in the versions “Ex i” for intrinsically safe fieldbuses in accordance with FISCO model and “Ex m” for non-intrinsically safe fieldbuses (Ex e / Nonincendive), “high energy trunk”.

Due to its extremely compact design, the Fieldbus Terminator can be installed directly in an M20 cable gland and at the same time will provide the required sealing plug for unused cable glands.

Selection Table

Version	Fieldbus	Order number
Fieldbus Terminator "Ex m"	non-intrinsically safe (Ex e / Nonincendive)	9418/01-201-10
Fieldbus Terminator "Ex i"	intrinsically safe (FISCO)	9418/02-201-10

Explosion Protection

Version	9418/01 (Ex m)	9418/02 (Ex i)
Certificates		
IECEX	PTB 08.0007	PTB 08.0007
Europe (ATEX)	PTB 07 ATEX 2053	PTB 07 ATEX 2053
Other countries	Kazakhstan (JSC)	Kazakhstan (JSC)
Marking		
IECEX		
Gas explosion protection	Ex mb II T6/T5	Ex ib IIB/IIC T6/T5
Dust explosion protection	Ex tD A21 IP66 T65 °C / T100 °C	Ex ibD 21 T65 °C / T100 °C
Europe (ATEX)		
Gas explosion protection	⊕ II 2 G Ex mb II T6/T5	⊕ II 2 G Ex ib IIB/IIC T6/T5
Dust explosion protection	⊕ II 2 D Ex tD A21 IP66 T65 °C/T100 °C	⊕ II 2 D Ex ibD 21 T65 °C/T100 °C
Installation	in Zone 1 and 2, Zone 21 and 22	in Zone 1 and 2, Zone 21 and 22
Safety data	max. 50 V	acc. to FISCO (IEC 60079-27)

Technical Data

Version	9418/01 (Ex m)	9418/02 (Ex i)
Fieldbus		
Physical Layer	acc. to IEC 61158-2	acc. to IEC 61158-2
Terminating resistor		
Nominal voltage	≤ 32 V	≤ 32 V
Capacitance	1 μF	1 μF
Resistance	100 Ω	100 Ω
Electromagnetic compatibility	Tested in accordance with the following standards and regulations: EN 61326 (IEC/EN 61000-4-1...6 and 11); NAMUR NE21	Tested in accordance with the following standards and regulations: EN 61326 (IEC/EN 61000-4-1...6 and 11); NAMUR NE21
Ambient conditions		
Ambient temperature	T5: - 40 ... + 75 °C / - 40 ... + 167 °F T6: - 40 ... + 40 °C / - 40 ... + 104 °F	T5: - 40 ... + 75 °C / - 40 ... + 167 °F T6: - 40 ... + 40 °C / - 40 ... + 104 °F
Storage temperature	- 40 ... + 80 °C / - 40 ... + 176 °F	- 40 ... + 80 °C / - 40 ... + 176 °F
Relative humidity (no condensation)	≤ 95 %	≤ 95 %
Mechanical data		
Connection type	2-core cable	2-core cable
Wire cross-section	0.75 mm ² / approx. 18 AWG (with ferrules)	0.75 mm ² / approx. 18 AWG (with ferrules)
Wire length	approx. 30 cm	approx. 30 cm
Assembly type	in certified enclosure or certified cable gland	in intrinsically safe circuit
Installation position	any	
Degree of protection	IP66 / IP68	

Technical Data

Installation example



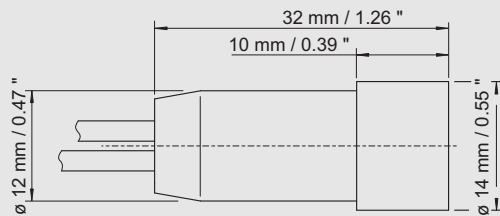
- On the installation of the Fieldbus Terminator in a cable gland:
- it is used as a certified sealing plug
 - it can be seen that a terminating resistor is connected to a device in the enclosure even if the enclosure is closed

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Accessories and Spare Parts

Designation	Illustration	Description	Order number	Weight kg / lbs	
Cable gland		8161/5-M 20-13 Ex e (black) for 9418/01	50 pieces	138454	0.600 / 1.323
		8161/6-M 20-13 Ex i (black with blue cap nut) for 9418/02	50 pieces	138464	0.011 / 0.024

Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations



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9418 Fieldbus Terminator

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.