# Fieldbus Terminator
Series 9418


07211E00

- 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

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), “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.

| | ATEX / IECEx | | | | | |
|---|---|---|---|---|---|---|
| Zone | 0 | 1 | 2 | 20 | 21 | 22 |
| Ex interface | | x | x | | x | x |
| Installation in | | x | x | | x | x |

**WebCode 9418A**

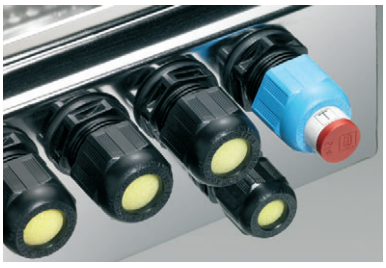
## Selection Table

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

## Explosion Protection

| Design | 9418/01 (Ex m) | 9418/02 (Ex i) |
|---|---|---|
| **Global (IECEx)** | | |
| Gas and dust | IECEx PTB 08.0007<br>Ex mb IIC T6/T5 Gb<br>Ex tb IIIC T65 °C / T100 °C Db | IECEx PTB 08.0007<br>Ex ib IIC T6/T5 Gb<br>Ex ib IIIC T65 °C / T100 °C Db |
| **Europe (ATEX)** | | |
| Gas and dust | PTB 07 ATEX 2053<br>Ⓔx II 2 G Ex mb IIC T6/T5 Gb<br>Ⓔx II 2 D Ex tb IIIC T65 °C / T100 °C Db | PTB 07 ATEX 2053<br>Ⓔx II 2 G Ex ib IIC T6/T5 Gb<br>Ⓔx II 2 D Ex ib IIIC T65 °C / T100 °C Db |
| **Certifications and certificates** | | |
| Certificates | IECEx, ATEX, India (Peso), Canada (cFM), Kazakhstan (TR), Russia (TR), USA (FM), Belarus (TR) | IECEx, ATEX, India (Peso), Canada (cFM), Kazakhstan (TR), Russia (TR), USA (FM), Belarus (TR) |
| Ship approval | DNV | DNV |
| Safety data | max. 50 V | acc. to FISCO (IEC 60079-27) |
| **Further parameters** | | |
| Installation | in Zone 1 and 2, Zone 21 and 22 | in Zone 1 and 2, Zone 21 and 22 |

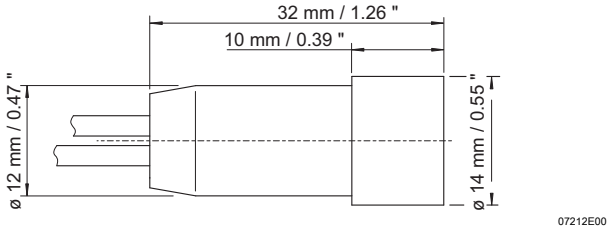
## Technical Data

| Design | 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:<br>EN 61326 (IEC/EN 61000-4-1...6 and 11);<br>NAMUR NE21 | Tested in accordance with the following standards and regulations:<br>EN 61326 (IEC/EN 61000-4-1...6 and 11);<br>NAMUR NE21 |
| **Ambient conditions** | | |
| Ambient temperature | T5: -40 ... +75 °C<br>T6: -40 ... +40 °C | T5: -40 ... +75 °C<br>T6: -40 ... +40 °C |
| Storage temperature | - 40 ... + 80 °C | - 40 ... + 80 °C |
| Relative humidity (no condensation) | ≤ 95 % | ≤ 95 % |
| **Mechanical data** | | |
| Connection type | 2-core cable | 2-core cable |
| Wire cross-section | 0.75 mm² (with ferrules) | 0.75 mm² (with ferrules) |
| Wire length | approx. 30 cm | approx. 30 cm |
| Mounting type | in certified enclosure or certified cable gland | in intrinsically safe circuit |
| Mounting orientation | any | any |
| Degree of protection | IP66 / IP68 | IP66 / IP68 |
| Installation example |  <br>07111E00<br>On the installation of the Fieldbus Terminator in a cable gland:<br>• it is used as a certified sealing plug<br>• it can be seen that a terminating resistor is connected to a device in the enclosure even if the enclosure is closed | |

## Accessories and Spare Parts

| Designation | Figure | Description | | Art. no. | Weight kg |
|---|---|---|---|---|---|
| Cable gland |  02055E00 | 8161/5-M 20-13<br>Ex e (black)<br>for 9418/01 | 50 pieces | **138454** | 0.600 |
| |  13027E00 | 8161/6-M 20-13<br>Ex i (black with blue cap nut)<br>for 9418/02 | 50 pieces | **138464** | 0.055 |

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




**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.