

## Trunk module - FB-ET - 2316048

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Trunk module for Foundation Fieldbus and PROFIBUS PA expansions with terminator



### Key Commercial Data

|                                      |               |
|--------------------------------------|---------------|
| Packing unit                         | 1 pc          |
| Weight per Piece (excluding packing) | 103.6 g       |
| Custom tariff number                 | 85389099      |
| Country of origin                    | United States |

### Technical data

#### Note

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---------------------------------------------------------------------------|

#### Dimensions

|        |         |
|--------|---------|
| Width  | 17.5 mm |
| Height | 99.1 mm |
| Depth  | 70.4 mm |

#### Ambient conditions

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Ambient temperature (operation)         | -40 °C ... 85 °C               |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C               |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing) |
| Degree of protection                    | IP20                           |

#### General

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## Technical data

### General

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Standards/regulations | IEC 60529, IEC 61158-2                             |
|                       | NE21                                               |
|                       | EN 61326, EN 60068-2-27, EN 60068-2-6              |
|                       | FF-846                                             |
| Mounting position     | On horizontal DIN rail NS 35 in acc. with EN 60715 |
| Net weight            | 102.7 g                                            |
| Color                 | green                                              |
| Conformance           | CE-compliant, additionally EN 61326                |
| Fieldbus Foundation   | FF-846                                             |

### Power supply

|                             |                                     |
|-----------------------------|-------------------------------------|
| Nominal supply voltage      | 24 V DC (IIC)                       |
|                             | 32 V DC (IIB)                       |
| Supply voltage range        | 24 V DC ... 32 V DC                 |
| Max. current consumption    | 12 mA (with terminator)             |
| Typical current consumption | 8 mA (without termination resistor) |

### Serial interface

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| Interface 1                           | Foundation Fieldbus and PROFIBUS PA Segment          |
| Connection method                     | Pluggable COMBICON screw connection for each spur    |
| Termination resistor                  | 100 $\Omega$ , external removable plug included      |
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup>                                  |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup>                                  |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>                                  |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup>                                  |
| Conductor cross section AWG min.      | 24                                                   |
| Conductor cross section AWG max.      | 12                                                   |
| Surge protection                      | Active if voltage exceeds 39 V (typ.) or 41 V (max.) |
| Voltage drop trunk line / outputs     | $\leq 0.2$ V                                         |

### Safety data

|                     |                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Input voltage $U_i$ | 17.5 V (for FB-2SP in a FNICO/FISCO ic system)                                                             |
| ATEX                | Sira 08ATEX4302X; II 3G Ex nA IIC T4 Gc<br>II 3G Ex ic IIC T4 Gc, FISCO ic<br>II 3G Ex nL IIC T4 Gc, FNICO |
| IECEX               | IECEX SIR 08.0109X; Ex nA IIC T4 Gc;<br>Ex ic IIC T4 Gc, FISCO ic; Ex nL IIC T4 Gc, FNICO                  |
| CSA, USA/Canada     | Class I, Division 2, Groups A,B,C,D; Ex nA IIC T4<br>Class I, Zone 2, AEx nA IIC T4                        |

### Standards and Regulations

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## Technical data

### Standards and Regulations

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| Shock                 | 15g, 11 ms                                                                                                 |
| Standards/regulations | IEC 60529, IEC 61158-2                                                                                     |
|                       | NE21                                                                                                       |
|                       | EN 61326, EN 60068-2-27, EN 60068-2-6                                                                      |
|                       | FF-846                                                                                                     |
| Vibration (operation) | 1g, 10 Hz - 150 Hz                                                                                         |
| Conformance           | CE-compliant, additionally EN 61326                                                                        |
| Fieldbus Foundation   | FF-846                                                                                                     |
| ATEX                  | Sira 08ATEX4302X; II 3G Ex nA IIC T4 Gc<br>II 3G Ex ic IIC T4 Gc, FISCO ic<br>II 3G Ex nL IIC T4 Gc, FNICO |
| IECEX                 | IECEX SIR 08.0109X; Ex nA IIC T4 Gc;<br>Ex ic IIC T4 Gc, FISCO ic; Ex nL IIC T4 Gc, FNICO                  |
| CSA, USA/Canada       | Class I, Division 2, Groups A,B,C,D; Ex nA IIC T4<br>Class I, Zone 2, AEx nA IIC T4                        |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250203 |
| eCl@ss 4.1 | 27250203 |
| eCl@ss 5.0 | 27250203 |
| eCl@ss 5.1 | 27259205 |
| eCl@ss 6.0 | 27259090 |
| eCl@ss 7.0 | 27259090 |
| eCl@ss 8.0 | 27242610 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001423 |
| ETIM 3.0 | EC001600 |
| ETIM 4.0 | EC001600 |
| ETIM 5.0 | EC001600 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11     | 39121008 |
| UNSPSC 12.01  | 39121008 |
| UNSPSC 13.2   | 43201553 |

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### Accessories

#### Accessories

#### Base element

Surge protection base element - PT 1X2+F-BE - 2856126



Base element for protective plug PT with protective circuit for a 2-core floating signal circuit. Integrated gas arrester as coarse protection between GND and PE. Mounting on NS 35/7.5 und NS 35/15, housing width: 17.5 mm.

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### Surge protection for measurement and control technology

Surge protection plug - PT 1X2-24AC-ST - 2856058



PT protective connector with protective circuit for a 2-wire floating signal circuit. HART-compatible.

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Control cabinet - FB- 8-ENCL - 2316093



Enclosure for Foundation Fieldbus and PROFIBUS PA. 8 ports with glands.

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Control cabinet - FB-13-ENCL - 2316103



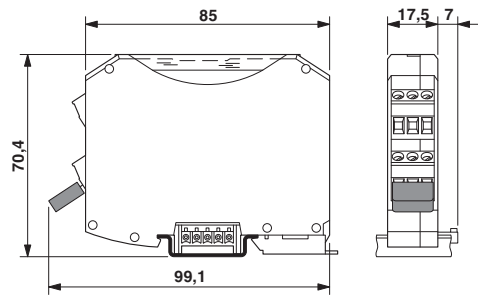
Enclosure for Foundation Fieldbus and PROFIBUS PA. 11 ports with glands and 2 plugged ports.

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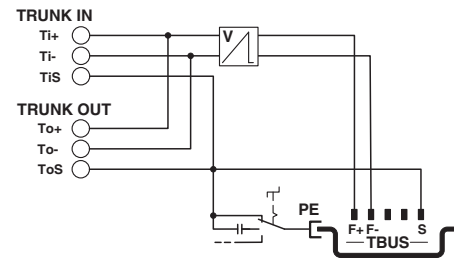
### Drawings

## Trunk module - FB-ET - 2316048

Dimensional drawing



Circuit diagram



Connection diagram: FB-ET