

FB-DIAG/FF/LI - Device coupler



2316284

<https://www.phoenixcontact.com/us/products/2316284>

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Field diagnostics module, legacy installation, includes pluggable side connector



Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2316284 |
| Packing unit | 1 pc |
| Sales key | DN11 |
| Product key | DNC1Z1 |
| GTIN | 4046356783248 |
| Weight per piece (including packing) | 114.3 g |
| Weight per piece (excluding packing) | 114.3 g |
| Customs tariff number | 85389099 |
| Country of origin | US |

Technical data

Notes

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Product properties

| | |
|--------------|----------------|
| Product type | Device coupler |
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Electrical properties

Supply

| | |
|-----------------------------|--------------------|
| Supply voltage range | 9 V DC ... 32 V DC |
| Typical current consumption | 27 mA |
| Max. current consumption | 29 mA |

Ex data

Safety data

| | |
|---------------------|------------------------------|
| Input voltage U_i | 32 V DC |
| Input current I_i | 274 mA (IIC) 570 mA (IIB) |
| Inductance L_i | 10 μ H |
| Capacitance C_i | 0 μ F |

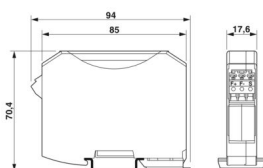
Interfaces

| | |
|--------|---------------------------------|
| Signal | PROFIBUS FOUNDATION Fieldbus |
|--------|---------------------------------|

Data: FOUNDATION Fieldbus

| | |
|---------------------------------------|---|
| Connection method | Pluggable screw connection with test points |
| Conductor cross-section flexible max. | 2.5 mm ² |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section, rigid max. | 2.5 mm ² |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section AWG max. | 12 |
| Conductor cross-section AWG min. | 24 |

Dimensions

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|---------------------|--|
| Dimensional drawing |  |
|---------------------|--|

| | |
|--------|---------|
| Width | 17.7 mm |
| Height | 93.9 mm |
| Depth | 70.4 mm |

Material specifications

| | |
|--|-------|
| Color | green |
| Flammability rating according to UL 94 | V0 |

Mechanical tests

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|---|------------------------------------|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : 30g, 11 ms half-sine shock pulse |
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 5g, 10 ... 150 Hz |
| Corrosive resistance in accordance with ANSI-ISA 71.04-1985 - Severity level G3 | : |

Environmental and real-life conditions

Ambient conditions

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

Approvals

Conformity/Approvals

| | |
|---------------------|---------------------------------------|
| Conformance | IEC 61158-2 |
| Fieldbus Foundation | FF-830 |
| EN | EN 61326, EN 60068-2-27, EN 60068-2-6 |
| NE | NE21 |

Ex data

| | |
|-----------------|---|
| ATEX | Sira 13ATEX4149X; Ⓢ II 3G Ex nA [ic] IIC T4 Gc |
| IECEX | IECEX SIR 13.0060X; Ex nA [ic] IIC T4 Gc |
| CSA, USA/Canada | Class I, Div. 2, Groups A,B,C,D; Ex nA nL IIC T4 Gc Class I, Zone 2, AEx nA nC IIC T4 Gc |

Standards and regulations

Standards/regulations

| | |
|-----------------------|--|
| Standards/regulations | Ring wave noise immunity in acc. with IEC 61000-4-12 |
|-----------------------|--|

Standards/regulations

| | |
|-----------------------|-----------------------------------|
| Standards/regulations | Dry heat in acc. with IEC 61131-2 |
|-----------------------|-----------------------------------|

Standards/regulations

| | |
|-----------------------|------------------------------------|
| Standards/regulations | Damp heat in acc. with IEC 61131-2 |
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Standards/regulations

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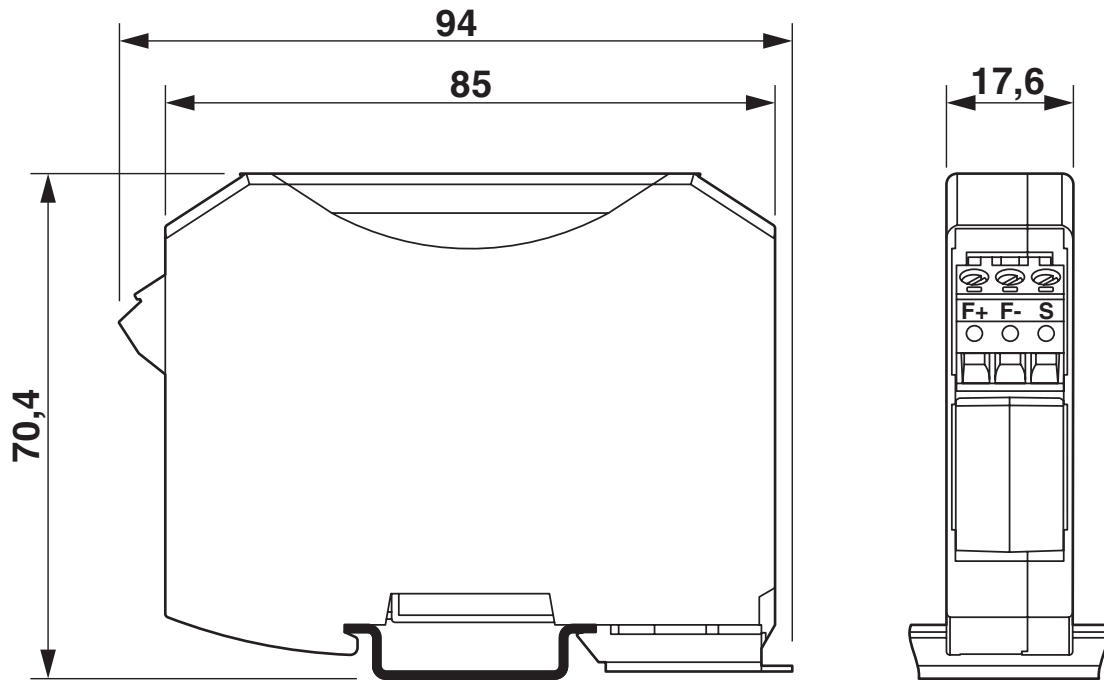
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| Standards/regulations | Shock and vibration in acc. with EN 61131-2 and EN 50178 |
| Standards/regulations | IEC 61158-2 |

Mounting

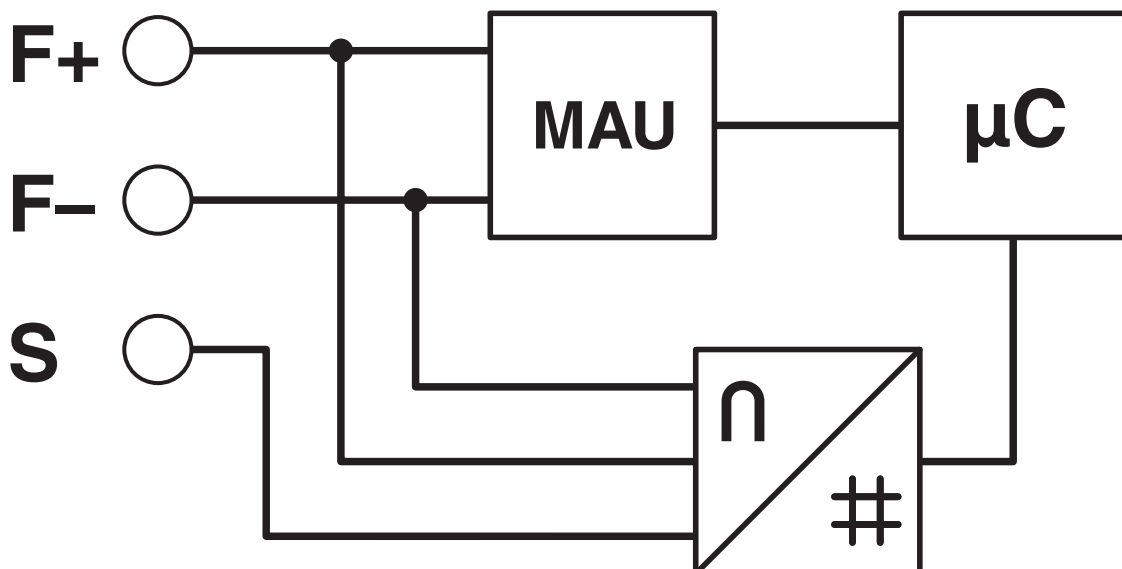
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|-------------------|---|
| Mounting type | DIN rail mounting |
| Mounting position | Any orientation on DIN rail, NS 35, in acc. with EN 60715 |

Drawings

Dimensional drawing



Block diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2316284>



IECEx

Approval ID: IECEx SIR 13.0060X



ATEX

Approval ID: Sira 13ATEX4149X

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(c)-I |

China RoHS

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|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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