

# PSM-EG-PROFIB/FO-T/K - Communication module



2761127

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T-coupler for converting RS-485 PROFIBUS to two fiber optic cables, polymer/PCF fiber, connection system: F-SMA, rail-mountable

The figure shows versions PSM-EG-PROFIB/FO-E/G and PSM-EG-PROFIB/FO-T/G

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2761127                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | DN06                           |
| Product key                          | DNC221                         |
| GTIN                                 | 4017918148676                  |
| Weight per piece (including packing) | 264.4 g                        |
| Weight per piece (excluding packing) | 264.4 g                        |
| Customs tariff number                | 85176200                       |
| Country of origin                    | DE                             |

## Technical data

### Electrical properties

|   |                  |
|---|------------------|
| Electrical isolation                            | RS-485 // supply |
| Maximum power dissipation for nominal condition | 2.64 W           |
| Test voltage data interface/power supply        | 2 kV AC          |

### Supply

|                             |                                   |
|-----------------------------|-----------------------------------|
| Nominal supply voltage      | 24 V DC $\pm 20\%$ (via COMBICON) |
| Typical current consumption | max. 110 mA                       |

### Output data

#### Switching

|                             |              |
|-----------------------------|--------------|
| Output name                 | Relay output |
| Output description          | Alarm output |
| Number of outputs           | 1            |
| Maximum switching voltage   | 60 V AC/DC   |
| Limiting continuous current | 1 A          |

### Interfaces

|                        |                |
|------------------------|----------------|
| Bit distortion, input  | $\pm 35\%$     |
| Bit distortion, output | $\pm 5\%$      |
| Bit delay              | $\leq 0.8$ bit |
| Signal                 | PROFIBUS       |

#### Data: optical FO

|   |  |
|---|--|
| Transmission power                            | 218.78 $\mu$ W (-6.6 dBm at 980/1000 $\mu$ m)  |
|   | 16.6 $\mu$ W (-17.8 dBm at 200/230 $\mu$ m)  |
| Transmit capacity, minimum                    | -6.6 dBm (980/1000 $\mu$ m)  |
|   | -17.8 dBm (200/230 $\mu$ m)  |
| Transmission length incl. 3 dB system reserve | 70 m (F-P 980/1000 230 dB/km with quick mounting connector)                                  |
|   | 400 m (F-K 200/230 10 dB/km with quick mounting connector)                                   |
| Transmission protocol                         | Acc. to technical guideline PNO, FA2, AK 1.2 transparent to protocol to the RS-485 interface |
| Connection method                             | F-SMA connector  |
| Wavelength                                    | 660 nm   |
| Minimum receiver sensitivity                  | -26.4 dBm (980/1000 $\mu$ m)   |
|   | -27.9 dBm (200/230 $\mu$ m)  |

#### Data: RS-485 interface, PROFIBUS in acc. with DIN 19245-1,-2,-3 and EN 50170, 2-wire

|                                       |  |
|---------------------------------------|--|
| Serial transmission speed             | 9.6/ 19.2/ 93.75/ 187.5/ 500/ 1500 kbps                  |
| Connection method                     | D-SUB-9 female connector                                 |
|                                       | COMBICON   |
| Termination resistor                  | 220 $\Omega$ can be connected; pull up/down 390 $\Omega$ |
| Conductor cross-section flexible max. | 2.5 mm <sup>2</sup>                                      |

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|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross-section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross-section AWG max.      | 14                  |
| Conductor cross-section AWG min.      | 24                  |
| File format/coding                    | UART (11 Bit, NRZ)  |
| Data direction switching              | Automatic control   |

## Dimensions

|        |        |
|--------|--------|
| Width  | 45 mm  |
| Height | 75 mm  |
| Depth  | 112 mm |

## Material specifications

|                    |                  |
|--------------------|------------------|
| Color (Housing)    | green (RAL 6021) |
| Material (Housing) | ABS              |

## Cable/line

### FO cable

|             |               |
|-------------|---------------|
| Fiber types | 200/230 µm    |
|             | 980/1000 µm   |
|             | PCF fiber     |
|             | Polymer fiber |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                |
|---------------------------------|----------------|
| Degree of protection            | IP20           |
| Ambient temperature (operation) | 0 °C ... 50 °C |

## EMC data

|                               |  |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC directive 89/336/EC |
| Noise immunity                | EN 50 082-2                              |

### Noise emission

|                       |            |
|-----------------------|------------|
| Standards/regulations | EN 50081-2 |
|-----------------------|------------|

## Standards and regulations

|                      |                  |
|----------------------|------------------|
| Electrical isolation | RS-485 // supply |
|----------------------|------------------|

## Mounting

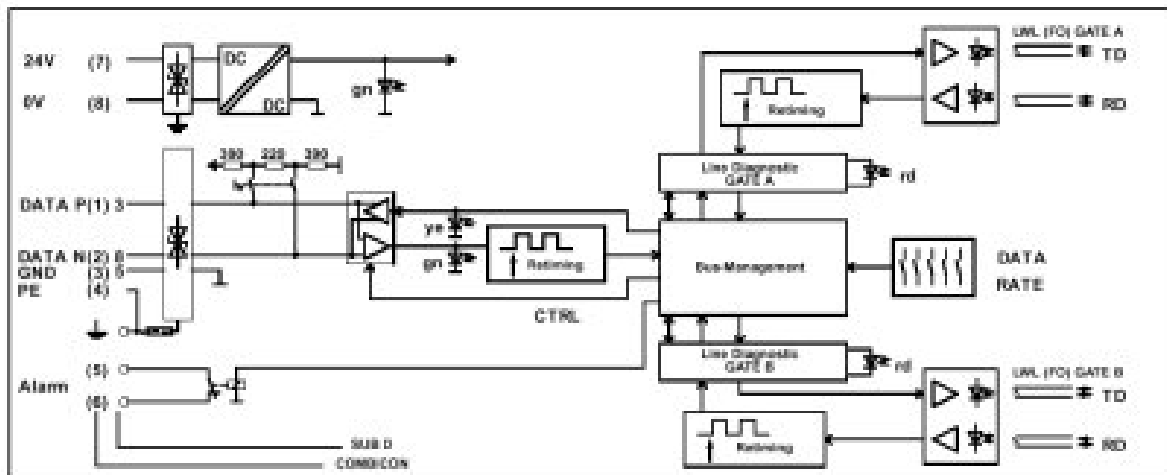
|               |                   |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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## Drawings

### Circuit diagram



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## Environmental product compliance

### China RoHS

|  |   |
|--|---|
| 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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