

# MC 1100E-SFP - FO converters



1331375

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Gigabit fiber optic converter with SFP port for 1000Base-T, DIN rail mountable, extended temperature range, redundant power supply, IECEx, ATEX, UL HazLoc, IEC 61850, IEEE 1613, DNV.

## Product description

The MC 1100E SFP gigabit media converter comes with one 10/100/1000 Mbps twisted-pair RJ45 port and one 100/1000 Mbps SFP port, ruggedized EMI protection, and wide temperature range.

## Your advantages

- Auto MDI/MDI-X switch-over
- Data transfer rates of 1000 Mbps
- Link fault pass through (LFPT) function for easy connection monitoring
- Network structure according to IEC 61850-3
- IEEE 1613

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1331375       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN06          |
| Product key                          | DNC315        |
| GTIN                                 | 4063151627911 |
| Weight per piece (including packing) | 278.8 g       |
| Weight per piece (excluding packing) | 180 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | CA            |

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## Technical data

### Notes

#### Note on application

|                     |                         |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

### Product properties

|                |  |
|----------------|--|
| Product type   | Media converter  |
| Product family | MC 1000E   |
| MTTF           | 63.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)                                |
|                | 481.2 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)                                     |
|                | 333.7 Years (Telcordia standard, temperature 25 °C, operating cycle 100 % (7 days a week, 24 hours a day)) |

### Electrical properties

|   |       |
|---|-------|
| Maximum power dissipation for nominal condition | 1.5 W |
|---|-------|

#### Supply

|                             |                         |
|-----------------------------|-------------------------|
| Supply voltage range        | 12 V DC ... 57 V DC     |
| Nominal supply voltage      | 24 V DC                 |
|                             | 48 V DC                 |
| Typical current consumption | 62 mA (24 V DC)         |
| Max. current consumption    | 170 mA (12 V DC, 75 °C) |

### Output data

#### Signal

|                       |  |
|-----------------------|--|
| Voltage output signal | 12 V DC ... 48 V DC (depending on the input voltage) |
| Current output signal | 100 mA   |

### Connection data

#### Supply

|   |   |
|---|---|
| Connection method                       | Push-in spring connection                   |
| Single conductor/terminal point, rigid  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Single-wire/terminal point, flexible    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG] | 24 ... 12                                   |
| Stripping length                        | 10.00 mm                                    |

### Interfaces

|        |          |
|--------|----------|
| Signal | Ethernet |
|--------|----------|

#### Data: optical FO

|                   |     |
|-------------------|-----|
| Connection method | SFP |
|-------------------|-----|

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|                     |                                  |
|---------------------|----------------------------------|
| Transmission medium | depending on the SFP module used |
|---------------------|----------------------------------|

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

|                        |                                |
|------------------------|--------------------------------|
| Transmission speed     | 10/100/1000 Mbps               |
| Connection method      | RJ45 jack, shielded            |
| No. of channels        | 1                              |
| Transmission length    | 100 m (twisted pair, shielded) |
| Transmission medium    | Copper                         |
| Signal LEDs            | LNK/ACT, SPD, Err, US, US2     |
| Auto-negotiation modes | Auto                           |
| Link through           | Link fault pass through        |
| MDI-/MDI-X switchover  | Auto-MDI(X)                    |

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 125 mm  |
| Depth  | 90 mm   |

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Housing material | Polyamide fiber reinforced  |
|                  | Aluminum / steel sheet DC01 |

## Mechanical tests

|  |   |
|--|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | Operation: 5g, 150 Hz, Criterion 3          |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | Operation: 30g, 11 ms half-sine shock pulse |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                    | IP30                                       |
| Ambient temperature (operation)         | -40 °C ... 75 °C                           |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C                           |
| Altitude                                | ≤ 2000 m (in acc. with UL)                 |
| Permissible humidity (operation)        | 10 % ... 95 % (non-condensing)             |
| Shock                                   | 300 m/s <sup>2</sup> , 11 ms (IEC 60068-2) |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### UL, USA/Canada

|                |  |
|----------------|--|
| Identification | Class I, Division 2, Groups A, B, C, and D, T4 |
|                | Class I, Zone 2, IIC T4                        |

### IECEX

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|                |                   |
|----------------|-------------------|
| Identification | Ex ec IIC T4 Gc   |
| Certificate    | IECEX UL 25.0019X |

## ATEX

|                |                          |
|----------------|--------------------------|
| Identification | Ⓜ II 3 G Ex ec IIC T4 Gc |
| Certificate    | UL 25 ATEX 3348X         |

## EMC data

|                               |   |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise immunity                | IEC 61850-3, IEEE 1613                    |

## Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

## Electrostatic discharge

|          |             |
|----------|-------------|
| Comments | Criterion B |
|----------|-------------|

## Electromagnetic HF field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

## Electromagnetic HF field

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

## Fast transients (burst)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

## Fast transients (burst)

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

## Surge current load (surge)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

## Surge current load (surge)

|          |             |
|----------|-------------|
| Comments | Criterion B |
|----------|-------------|

## Conducted interference

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

## Conducted interference

|          |             |
|----------|-------------|
| Comments | Criterion A |
|----------|-------------|

## Emitted interference

|                       |          |
|-----------------------|----------|
| Standards/regulations | EN 55032 |
|-----------------------|----------|

## Mounting

|                       |  |
|-----------------------|--|
| Mounting type         | DIN rail mounting                                  |
| Mounting position     | on horizontal DIN rail NS 35 in acc. with EN 60715 |
| Useable DIN rail type | DIN rail: 35 mm                                    |

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## Approvals

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**cULus Listed**

Approval ID: E238705

**BSH**

Approval ID: BSH Nr. 1176



**IECEE CB Scheme**

Approval ID: CA-11671-M1-UL

**DNV**

Approval ID: TAA00003RU



**IECEx**

Approval ID: IECEx UL 25.0019X



**ATEX**

Approval ID: UL 25 ATEX 3348X



**cULus Listed**

Approval ID: E196811

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 19170411 |
| ECLASS-15.0 | 19170411 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001467 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43223323 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

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

### 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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