

Industrial Ethernet IE-MC-VL-1TX-1SCS

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Product image



Industrial Fast Ethernet media converter

- 10/100BaseT(X) auto-negotiation and auto MDI/MDI-X
- Link Fault Pass-Through (LFP)
- Warning in event of power failure and port failure
- Redundant power supply inputs
- -40 to 75 °C operating temperature (T models)
- Designed for explosive-risk areas (Class 1 Div. 2/Atex Zone 2)

General ordering data

| | |
|------------|---|
| Type | IE-MC-VL-1TX-1SCS |
| Order No. | 1241420000 |
| Version | Media converter, Fast Ethernet, Number of ports: 1x RJ45, 1 * SC Single-mode, IP30, 0 °C...60 °C |
| GTIN (EAN) | 4050118029185 |
| Qty. | 1 pc(s). |

Creation date August 17, 2020 11:49:04 AM CEST

Catalogue status 14.08.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Width | 53.6 mm | Width (inches) | 2.11 inch |
| Height | 135 mm | Height (inches) | 5.315 inch |
| Depth | 105 mm | Depth (inches) | 4.134 inch |
| Net weight | 765 g | | |

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

EMC conformity and approvals

| | | | |
|---------------------|---|-----------------|-------------------------------|
| EMC standards | EN 55032, EN 55024, CISPR 32, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 Ghz: 3 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 1 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 V/m, IEC 61000-4-8, IEC 61000-4-11 | Safety standard | UL508, UL 60950-1, EN 60950-1 |
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc | Ship use | DNV-GL |
| Shock | according to IEC 60068-2-27 | Vibration | according to IEC 60068-2-6 |
| Free fall | According to IEC 60068-2-32 | | |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity | 5 to 95 % (non-condensing) | Operating temperature, max. | 60 °C |
| Operating temperature, min. | 0 °C | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C | | |

Fibre optic transceiver characteristics

| | | | |
|-----------------------------|------------|----------|--|
| Transmission rate | 100 Mbps | | |
| Transceiver type | Singlemode | | |
| Connector type | SC-Duplex | | |
| Transmission distance, typ. | 40 km | | |
| Wavelength | typ. | 1,310 nm | |
| | Wavelength | TX | |
| | min. | 1,280 nm | |
| | max. | 1,340 nm | |
| | Wavelength | RX | |
| | min. | 1,100 nm | |
| | max. | 1,600 nm | |
| Link-budget | 29 dB | | |

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Technical data
Guarantee

Time interval 5 years

Interfaces

| | | | |
|-------------------|---|-----------------|--|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | DIP switch | 100BaseFX full-/half-duplex mode, Port surveillance |
| Fibre-optic ports | 100BaseFX ports (SC connector), Singlemode | LED indicator | PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (fibre-optic port), FDX/ COL (Fibre port) |
| Note 1 | When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power. | Number of ports | 1x RJ45, 1 * SC Single-mode |
| RJ45 ports | 10/100BaseT(X) | | |

MTBF

MTBF 401,000 hrs Database MIL-HDBK-217F, GB 25°C

Power supply

| | | | |
|-----------------------------|----------------------------------|---------|--|
| Connection type | 1 removable 6-pin terminal block | | |
| Current consumption | Voltage | 12 V DC | |
| | Current | 0.32 A | |
| | Voltage | 24 V DC | |
| | Current | 0.16 A | |
| Overload current protection | 1.1 A | | |
| Reverse polarity protection | Available | | |
| Voltage supply | 24 V DC, 2 redundant inputs | | |
| Voltage supply range | Voltage type | DC | |
| | Voltage, min. | 12 V | |
| | Voltage, max. | 45 V | |

Technical data

| | | | |
|-----------------------|--|-------------------|------|
| Housing main material | metal | Protection degree | IP30 |
| Type of mounting | DIN rail, Panel (with optional mounting kit) | | |

Technology

Standard IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC001467 | ETIM 7.0 | EC001467 |
| eClass 9.0 | 19-17-01-14 | eClass 9.1 | 19-17-01-14 |
| eClass 10.0 | 19-17-01-32 | | |

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Data sheet**Industrial Ethernet
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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | DNV-GL certificate ATEX certificate KC certificate EU Declaration of Conformity |
| Brochure/Catalogue | CAT 9.IETH 18/19 EN |
| Engineering Data | STEP |
| User Documentation | Hardware Installation Guide |