

IE-MC-VL-1TX-1SCS

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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

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

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Technical data

Approvals

Approvals



| | |
|---------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E230683 |
| Certificate no. (cULusEX) | E223527 |

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 105 mm | Depth (inches) | 4.1338 inch |
| Height | 135 mm | Height (inches) | 5.3149 inch |
| Width | 53.6 mm | Width (inches) | 2.1102 inch |
| Net weight | 765 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

EMC conformity and approvals

| | | | |
|---------------------|---|-----------|-----------------------------|
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC IIC T4 Gc | Free fall | According to IEC 60068-2-32 |
| 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 | Vibration | according to IEC 60068-2-6 |
| Shock | according to IEC 60068-2-27 | Ship use | DNV |
| Safety standard | UL508, UL 60950-1, EN 60950-1 | | |

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Environmental conditions

| | | | |
|-----------------------------|----------------------------|-----------------------------|-------|
| Operating temperature, max. | 60 °C | Operating temperature, min. | 0 °C |
| Humidity | 5 to 95 % (non-condensing) | 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. | 1310 nm | |
| | Wavelength | TX | |
| | min. | 1280 nm | |
| | max. | 1340 nm | |
| | Wavelength | RX | |
| | min. | 1100 nm | |
| Receive power | min. | -34 dBm | |
| | max. | -3 dBm | |
| Transmission power | min. | -5 dBm | |
| | max. | 0 dBm | |
| Link-budget | 29 dB | | |
| Note | 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. | | |

Guarantee

| | |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

Interfaces

| | | | |
|---------------------|---|---------------|--|
| Fibre-optic ports | 100BaseFX ports (SC connector), Singlemode | RJ45 ports | 10/100BaseT(X) |
| Function DIP switch | 100BaseFX full-/half-duplex mode, Port surveillance | Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC |
| Number of ports | 1x RJ45, 1 * SC Single-mode | LED indicator | PWR1, PWR2, FAULT, 10/100M (TP-Port), 100M (fibre-optic port), FDX/ COL (Fibre port) |

MTBF

| | | |
|------|------------------------------|------------------------|
| MTBF | According to Standard | MIL-HDBK-217F, GB 25°C |
| | Operating time (hours), min. | 401000 h |

Power supply

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

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| | |
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| Current | 0.32 A |
| Voltage | 24 V |
| Current | 0.16 A |

Technical data

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

Technology

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001467 | ETIM 9.0 | EC001467 |
| ETIM 10.0 | EC001467 | ECLASS 14.0 | 19-17-01-32 |
| ECLASS 15.0 | 19-17-01-32 | | |