HIRSCHMANN
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Product: M-SFP-10-ER/LC EEC



SFP Fiberoptic 10 Gigabit Ethernet Transceiver SM, extended temperature range

Product Description

SFP Fiberoptic 10 Gigabit Ethernet Transceiver SM with LC connector, extended temperature range

Technical Specifications

Product description

Type:	M-SFP-10-ER/LC EEC
Description:	SFP Fiberoptic 10 Gigabit Ethernet Transceiver SM, extended temperature range
Part Number:	942212001
Port Type and Quantity:	1 x 10000 Mbit/s with LC connector

Network size - length of cable

Single mode fiber (SM) 9/125 µm:	10-40 km (Link budget at 1550 nm = 3-15 dB; 0.25 db/km, 19 ps/ (nm*km)

Power requirements

Operating Voltage:	power supply via the switch
Power Consumption:	1 W

Software

Diagnostics:	Optical input and output power, transceiver temperature

Ambient conditions

MTBF:	1059 years (Telcordia SR-332, Issue 2, 40°C)
MTBF (Telcordia SR-332 Issue 3) @ 25°C:	1059 Years
Operating temperature:	-40-+85 °C
Minimum Storage Temperature:	-40-+85 °C
Relative humidity (non-condensing):	5-95 %

Mechanical construction

Dimensions (WxHxD):	13.4 mm x 8.5 mm x 56.5 mm
Weight:	74 g
Mount Type:	SFP+ slot
IP Protection Rating:	IP20

Mechanical stability

IEC 60068-2-6 vibration:	1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
IEC 60068-2-27 shock:	15 g, 11 ms duration, 18 shocks

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	6 kV contact discharge, 8 kV air discharge

EN 61000-4-3 electromagnetic field:	10 V/m (80-1000 MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage:	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 Conducted Immunity:	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)

EMC emitted immunity

EN 55022:	EN 55022 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

Approvals

Safety of information technology equipment:	EN60950
Laser Protection:	class 1 according to IEC60825-1
Hazardous locations:	depending on deployed switch
Shipbuilding:	depending on deployed switch

Reliability

Guarantee:	24 months (please refer to the &lta href="https://assets.belden.com/m/1424ddb7a3280e7a/original/Hirschmann-Automation-and-Control-GmbH-Terms-of-Guarantee.pdf"terms of guarantee &lt/a for detailed information)

Scope of delivery and accessories

Scope of delivery:	SFP module

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html

History

Update and Revision:	Revision Number: 0.103 Revision Date: 07-15-2026

Variants

Item #	Type
942212001	M-SFP-10-ER/LC EEC

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