HIRSCHMANN
A BELDEN BRAND

Product: M-SFP-LH+/LC



SFP Fiberoptic Gigabit Ethernet Transceiver LH

Product Description

SFP Fiberoptic Gigabit Ethernet Transceiver LH with LC connector

Technical Specifications

Product description

Type:	M-SFP-LH+/LC, SFP Transceiver LH+
Description:	SFP Fiberoptic Gigabit Ethernet Transceiver LH
Part Number:	943049001
Port Type and Quantity:	1 x 1000 Mbit/s with LC connector

Network size - length of cable

Single mode fiber (LH) 9/125 µm (long haul transceiver):	71 - 128 km (Link Budget at 1550 nm = 15 - 30 dB; A = 0,21 dB/km; D = 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 (Telcordia SR-332 Issue 3) @ 25°C:	487 Years
Operating temperature:	0-+60 °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:	30 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: 0.124 Revision Date: 07-15-2026

Variants

Item #	Type
943049001	M-SFP-LH+/LC, SFP Transceiver LH+

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