



# HIRSCHMANN

A BELDEN BRAND

## Product information M-FAST SFP-SM/LC EEC

Industrial Ethernet: System Accessories: Fiberoptic Transceiver: SFP Fast-Ethernet Transceiver for media module: M-FAST SFP-SM/LC EEC

<http://e-catalog.hirschmann.com/link/57078-24455-24544-24535-24528-40590/en/conf/uistate>

| Name                                                    | M-FAST SFP-SM/LC EEC                                                                                                                                       |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                                           |
|                                                         | SFP Fiberoptic Fast-Ethernet Transceiver                                                                                                                   |
| Delivery informations                                   |                                                                                                                                                            |
| Availability                                            | available                                                                                                                                                  |
| Product description                                     |                                                                                                                                                            |
| Description                                             | SFP Fiberoptic Fast-Ethernet Transceiver                                                                                                                   |
| Port type and quantity                                  | 1 x 100 BASE-FX with LC connector                                                                                                                          |
| Type                                                    | M-FAST SFP-SM/LC EEC                                                                                                                                       |
| Order No.                                               | 943 946-001                                                                                                                                                |
| Network size - length of cable                          |                                                                                                                                                            |
| Multimode fiber (MM) 50/125 µm                          | -                                                                                                                                                          |
| Multimode fiber (MM) 62.5/125 µm                        | -                                                                                                                                                          |
| Single mode fiber (SM) 9/125 µm                         | 0 - 25 km 0 - 13 dB link budget bei 1310nm A = 0.4 dB/km, 3 dB Reserve, B = 800 MHz x km                                                                   |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) | -                                                                                                                                                          |
| Power requirements                                      |                                                                                                                                                            |
| Operating voltage                                       | power supply via the switch                                                                                                                                |
| Power consumption                                       | 1 W                                                                                                                                                        |
| Service                                                 |                                                                                                                                                            |
| Diagnostics                                             | optical input- and output power, transceiver temperature                                                                                                   |
| Ambient conditions                                      |                                                                                                                                                            |
| Operating temperature                                   | -40 °C to +85 °C                                                                                                                                           |
| Storage/transport temperature                           | -40°C to +85°C                                                                                                                                             |
| Relative humidity (non-condensing)                      | 10% to 95%                                                                                                                                                 |
| MTBF                                                    | 652 years; Telcordia SR-332                                                                                                                                |
| Mechanical construction                                 |                                                                                                                                                            |
| Dimensions (W x H x D)                                  | 20 mm x 18 mm x 50 mm                                                                                                                                      |
| Mounting                                                | SFP slot                                                                                                                                                   |
| Weight                                                  | 40 g                                                                                                                                                       |
| Protection class                                        | IP 20                                                                                                                                                      |
| Mechanical stability                                    |                                                                                                                                                            |
| IEC 60068-2-27 shock                                    | 15 g, 11 ms duration, 18 shocks                                                                                                                            |
| IEC 60068-2-6 vibration                                 | 1 mm, 2 Hz - 13,2 Hz, 90 min.; 0,7g, 13,2 Hz - 100 Hz, 90 min.; 3,5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min. |
| 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), 1kV data line                                                                                             |
| EN 61000-4-6 conducted immunity                         | 3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)                                                                                                            |
| EMC emitted immunity                                    |                                                                                                                                                            |
| FCC CFR47 Part 15                                       | FCC CFR47 Part 15 Class A                                                                                                                                  |
| EN 55022                                                | EN 55022 Class A                                                                                                                                           |
| Approvals                                               |                                                                                                                                                            |
| Safety of information technology equipment              | cUL 60950-1                                                                                                                                                |
| Shipbuilding                                            | Germanischer Lloyd, ABS, BV, DNV, LR, KR, RINA                                                                                                             |



# HIRSCHMANN

A Belden BRAND

Industrial Ethernet: System Accessories: Fiberoptic Transceiver: SFP Fast-Ethernet Transceiver for media module: M-FAST SFP-SM/LC EEC

<http://e-catalog.hirschmann.com/link/57078-24455-24544-24535-24528-40590/en/conf/ui.state>

#### Scope of delivery and accessories

|                                 |            |
|---------------------------------|------------|
| Scope of delivery               | -          |
| Accessories to order separately | SFP module |

For more information please contact:

**Hirschmann Automation and Control GmbH**

Stuttgarter Strasse 45-51

72654 Neckartenzlingen

Germany

Phone: +49 7127/14-1809

E-Mail: [inet-sales@belden.com](mailto:inet-sales@belden.com)

The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect. The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.