




## Product information M-SFP-BIDI-Bundle LX/LC EEC

Industrial Ethernet: System Accessories: Transceiver: Gigabit Ethernet Bi-Directional SFP Transceiver: M-SFP-BIDI-Bundle LX/LC EEC

<http://dev-catalog.beldensolutions.com/link/57078-24455-24544-24535-65079-65028/en/conf/uistate>

|                                                         |                                                                                                                                                           |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                                                    | M-SFP-BIDI-Bundle LX/LC EEC                                                                                                                               |
|                                                         |                                                                          |
|                                                         | SFP Fiberoptic bi-directional Gigabit Ethernet Transceiver SM, single strand, bundle = 1 x type A and 1 x type B                                          |
| <b>Delivery informations</b>                            |                                                                                                                                                           |
| Availability                                            | available                                                                                                                                                 |
| <b>Product description</b>                              |                                                                                                                                                           |
| Description                                             | SFP Fiberoptic bi-directional Gigabit Ethernet Transceiver SM, single strand, bundle = 1 x type A and 1 x type B                                          |
| Port type and quantity                                  | 1 x 1000BASE-LX with LC connector, extended temperature range                                                                                             |
| Type                                                    | M-SFP-BIDI-Bundle LX/LC EEC                                                                                                                               |
| Order No.                                               | 943 974-101                                                                                                                                               |
| <b>Network size - length of cable</b>                   |                                                                                                                                                           |
| Multimode fiber (MM) 50/125 µm                          | n/a                                                                                                                                                       |
| Multimode fiber (MM) 62.5/125 µm                        | n/a                                                                                                                                                       |
| Single mode fiber (SM) 9/125 µm                         | 0 m - 20 km, 0 - 11 dB Link Budget (1310nm type A, 1550 nm type B) A = 0.4 dB/km, 3 dB Reserve, D = 3.5 ps / (nm x km)                                    |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) | n/a                                                                                                                                                       |
| <b>Power requirements</b>                               |                                                                                                                                                           |
| Operating voltage                                       | power supply via the switch                                                                                                                               |
| Power consumption                                       | 1 W                                                                                                                                                       |
| <b>Service</b>                                          |                                                                                                                                                           |
| Diagnostics                                             | optical input and output power, transceiver temperature                                                                                                   |
| <b>Ambient conditions</b>                               |                                                                                                                                                           |
| Operating temperature                                   | -40 °C to +85 °C                                                                                                                                          |
| Storage/transport temperature                           | -40°C to +85°C                                                                                                                                            |
| Relative humidity (non-condensing)                      | 5% to 95%                                                                                                                                                 |
| <b>Mechanical construction</b>                          |                                                                                                                                                           |
| Dimensions (W x H x D)                                  | 20 mm x 18 mm x 50 mm                                                                                                                                     |
| Mounting                                                | SFP slot                                                                                                                                                  |
| Weight                                                  | 40 g                                                                                                                                                      |
| Protection class                                        | IP 20                                                                                                                                                     |
| <b>Mechanical stability</b>                             |                                                                                                                                                           |
| 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 |
| <b>EMC interference immunity</b>                        |                                                                                                                                                           |
| 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)                                                                                                           |
| <b>EMC emitted immunity</b>                             |                                                                                                                                                           |
| FCC CFR47 Part 15                                       | FCC CFR47 Part 15 Class A                                                                                                                                 |
| EN 55022                                                | EN 55022 Class A                                                                                                                                          |
| <b>Approvals</b>                                        |                                                                                                                                                           |
| Safety of industrial control equipment                  | cUL 508                                                                                                                                                   |
| Shipbuilding                                            | Germanischer Lloyd                                                                                                                                        |
| <b>Scope of delivery and accessories</b>                |                                                                                                                                                           |
| Scope of delivery                                       | SFP module                                                                                                                                                |

Industrial Ethernet: System Accessories: Transceiver: Gigabit Ethernet Bi-Directional SFP Transceiver: M-SFP-BIDI-Bundle LX/LC EEC

<http://dev-catalog.beldensolutions.com/link/57078-24455-24544-24535-65079-65028/en/conf/uistate>

|                                 |     |
|---------------------------------|-----|
| Accessories to order separately | n/a |
|---------------------------------|-----|

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.