# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com



## Features of BasicLine Series B Switches

- Support real time communication e.g. in PROFINET networks due to the "Quality of Service" and "LLDP frame blocking" functionality – "PROFINET Conformance Class A"
- Large number of certifications to fit any requirements of mechanical and EMC influences, ideal for application areas such as offshore, process or mining
- Optimized DIN-rail clip as well as PUSH IN Connectors for fast and easy installation
- Covers the most common port combinations with RJ45 and SFP ports for flexible usage
- AC/DC power supply input
- Network availability is strongly increased thanks to Broadcast Storm Protection
- Energy Efficient Ethernet and plastic- free packaging

## General ordering data

| | |
|---|---|
| Version | Network switch, unmanaged, Gigabit Ethernet, Number of ports: 8x RJ45, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C |
| Order No. | 2908190000 |
| Type | IE-SW-BLB-10-8GT-2GESFP |
| GTIN (EAN) | 4099986847811 |
| Qty. | 1 pc(s). |
| Replacement parts | 1013450000 |

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 85 mm | Depth (inches) | 3.346 inch |
| Height | 114 mm | Height (inches) | 4.488 inch |
| Width | 44 mm | Width (inches) | 1.732 inch |
| Net weight | 412 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...75 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

### EMC conformity and approvals

| | | | |
|---|---|---|---|
| EMC standards | EN IEC 61000-6-2, EN IEC 61000-6-4, 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 to 1 Ghz: 10 V/m, IEC 61000-4-3 RS: 1.4 GHz to 6 Ghz: 3 V/m, IEC 61000-4-4 EFT: Power: 4 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 Vrms, IEC 61000-4-8 PFMF: 30 A/m | Explosive risk zone | EN IEC 60079-0, EN IEC 60079-7, UL/cUL, Class I, Division 2, Groups A, B, C and D |
| Free fall | According to IEC 60068-2-31 | Safety standard | UL 61010-1, UL 61010-2-201 |
| Ship use | DNV, BV, ABS, LR, RINA pending approval | Shock | according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | | |

### Environmental conditions

| | | |
|---|---|---|
| Humidity | 5 to 95 % (non-condensing) | |
| Operating altitude | Altitude, max. | 2,000 m |
| Operating temperature, max. | 75 °C | |
| Operating temperature, min. | -40 °C | |
| Storage temperature, max. | 85 °C | |
| Storage temperature, min. | -40 °C | |

### Guarantee

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

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Technical data

### Interfaces

| | | | |
|---|---|---|---|
| Fibre-optic ports | 100/1000Base SFP Slot | Function DIP switch | QoS (on/off), Broadcast storm protection enable/disable, MAC frame filtering (on/off), Activate/deactivate IEEE 802.3az energy-efficient Ethernet |
| LED indicator | Power LED: PWR1, PWR2, Port LED: LNK/ACT, 10/100/1000M (RJ45 port), Power LED: PWR FLT | Number of ports | 8x RJ45, 2x 100/1000BaseSFP Slot |
| RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

### MTBF

| | | |
|---|---|---|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 952,155 h |
| | Input voltage | 24 V |

### Management features

| | | | |
|---|---|---|---|
| Network traffic filter | Quality of Service (QoS), Class of Service (CoS), Type of Service (ToS), Differentiated Services Code Point (DSCP), MAC frame filtering (LLDP frame blocking) | Industrial protocol support | PROFINET device acc. to conformance class A |

### Power supply

| | | |
|---|---|---|
| Connection type | 1 removable 4-pin terminal block | |
| Current consumption | 0.29 A | |
| Current consumption | Voltage | 24 V |
| | Current | 0.29 A |
| | Voltage type | DC |
| Overload current protection | Yes | |
| Reverse polarity protection | Yes | |
| Voltage supply | 12/24/48 V DC, 24 V AC, 2 redundant inputs | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 9 V |
| | Voltage, max. | 60 V |
| | Voltage type | AC |
| | Voltage, min. | 18 V |
| | Voltage, max. | 30 V |

### Switch characteristics

| | | | |
|---|---|---|---|
| Bandwidth backplane | 20 Gbit/s | Jumbo frame support | up to 9 KB |
| MAC table size | 4 K | Packet buffer size | 1.5 Mbit |
| Priority queues | 4 | | |

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Technical data

### Technical data

| | | | |
|---|---|---|---|
| Housing main material | Metal | Protection degree | IP30 |
| Speed | Gigabit Ethernet | Switch | unmanaged |
| Type of mounting | DIN rail | | |

### Technology

| | | | |
|---|---|---|---|
| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
| Standard | IEEE 802.3 for 10BASE-T, IEEE 802.3ab for 1000BASE-T, IEEE 802.3x for flow control, IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.1p for Class of Service / Quality of Service (CoS/QoS), IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3z for 1000BASE-X | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 | ETIM 9.0 | EC000734 |
| ECLASS 9.0 | 19-17-01-06 | ECLASS 9.1 | 19-17-01-06 |
| ECLASS 10.0 | 19-17-04-02 | ECLASS 11.0 | 19-17-04-02 |
| ECLASS 12.0 | 19-17-04-02 | ECLASS 13.0 | 19-17-04-02 |
| ECLASS 14.0 | 19-17-04-02 | | |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant |
| REACH SVHC | No SVHC above 0.1 wt% |

### Approvals

| | |
|---|---|
| Approvals | |
| Approvals MAMID | https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_322323/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319245/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/ |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |
| Certificate no. (cULusEX) | E223527 |

Creation date April 26, 2025 9:28:44 AM CEST

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Technical data

### Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | KC certificate<br>IECEx certificate<br>ATEX certificate<br>UKEx certificate<br>EU Declaration of Conformity<br>RCM Declaration of Conformity<br>UK Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Quick start guide – Hardware Installation Guide<br>Application notes – Industrial Product Security Guideline |
| Catalogues | Catalogues in PDF-format |

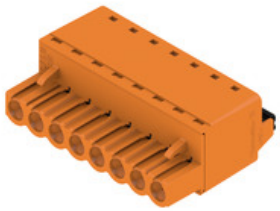
# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Replacement parts

### BLF 5.08HC/180 SN



Just as reliable as the millionfold proven original and featuring innovative details:
The BLF 5.08HC PUSH IN version of the BLZP 5.08HC female connector is not only different in terms of connection system; it also has a more compact design. Weidmüller's innovative PUSH IN spring connection system stands for the future of easy and tool-free wire connection. HC = High Current.
In terms of versatility, the BLF 5.08HC offers just as much as the version which served as a model:

- 3 tested-and-proven wire outlet directions provide the usual flexibility for application-specific design
- 4 flange variations and the patented release latch allow the locking concept to be based on the requirements of the user
- Use the BLF 5.08HC and SL 5.08HC plug combination to reach the max. rated specifications

### General ordering data

| | | | | |
|---|---|---|---|---|
| Type | BLF 5.08HC/04/180 SN BK ... | Version | Product data | Packaging |
| Order No. | 1013450000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, | IEC: 400 V / 24 A / 0.2 - 2.5 mm² | Box |
| GTIN (EAN) | 4032248721603 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box | UL: 300 V / 18.5 A / AWG 26 - AWG | |
| Qty. | 90 pc(s). | | 12 | |

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Accessories

### Mounting kit for 19" rack assembly



- For assembling DIN rail-based devices on 19" racks

#### General ordering data

| | | |
|---|---|---|
| Type | RM-KIT | Version |
| Order No. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |

### SFP transceiver (for use with switches of Eco-, Advanced-, Substation and BasicLine series B)



**Features of SFP-Transceiver series**

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

#### General ordering data

| | | |
|---|---|---|
| Type | IE-SFP-1GE-SM-40 | Version |
| Order No. | 2682510000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40 |
| GTIN (EAN) | 4050118692204 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-MM-05 | Version |
| Order No. | 2682480000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.5 km, -40 |
| GTIN (EAN) | 4050118692235 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-20-BIDI-T ... | Version |
| Order No. | 2682540000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692174 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-10 | Version |
| Order No. | 2682500000 | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40 |
| GTIN (EAN) | 4050118692211 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1GE-SM-10-BIDI-T ... | Version |
| Order No. | 2682520000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692198 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |

# IE-SW-BLB-10-8GT-2GESFP

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

www.weidmueller.com

## Accessories

| | | |
|---|---|---|
| Type | IE-SFP-1FE-MM-2 | Version |
| Order No. | 2682450000 | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118692266 | °C |
| Qty. | 1 pc(s). | |

| | | |
|---|---|---|
| Type | IE-SFP-1FE-SM-30 | Version |
| Order No. | 2682460000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40 |
| GTIN (EAN) | 4050118692259 | °C...85 °C |
| Qty. | 1 pc(s). | |

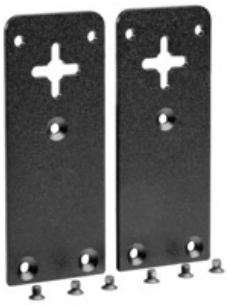
| | | |
|---|---|---|
| Type | IE-SFP-1GE-SM-20-BIDI-T ... | Version |
| Order No. | 2682550000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692167 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |

| | | |
|---|---|---|
| Type | IE-SFP-1GE-MM-2 | Version |
| Order No. | 2682490000 | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40 °C...85 |
| GTIN (EAN) | 4050118692228 | °C |
| Qty. | 1 pc(s). | |

| | | |
|---|---|---|
| Type | IE-SFP-1FE-SM-60 | Version |
| Order No. | 2682470000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 |
| GTIN (EAN) | 4050118692242 | °C...85 °C |
| Qty. | 1 pc(s). | |

| | | |
|---|---|---|
| Type | IE-SFP-1GE-SM-10-BIDI-T ... | Version |
| Order No. | 2682530000 | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km, |
| GTIN (EAN) | 4050118692181 | -40 °C...85 °C |
| Qty. | 1 pc(s). | |

### Mounting kit for wall mounting (BasicLine series B)



**Mounting kit for wall mounting (BasicLine series B):**
Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet BasicLine B series components.
IE-WALLMOUNT-KIT-MODEL-A for use with:
- Industrial Ethernet Switches of the product range **IE-SW- BLB05/BLB08/BLB10**

IE-WALLMOUNT-KIT-MODEL-B for use with:
- Industrial Ethernet Switches of the product ranges **IE-SW- BLB16/BLB18/BLB24**

### General ordering data

| | | |
|---|---|---|
| Type | IE-WALLMOUNT-KIT-MODEL-A | Version |
| Order No. | 3032760000 | Kit for wall mounting |
| GTIN (EAN) | | |
| Qty. | | |