

## IE-SW-BLB-16-14GT-2GESFP

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://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: 14x RJ45, 2x 100/1000BaseSFP Slot, IP30, -40 °C...75 °C |
| Order No.  | <a href="#">2908130000</a>  |
| Type       | IE-SW-BLB-16-14GT-2GESFP  |
| GTIN (EAN) | 4099986847873   |
| Qty.       | 1 items   |

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## Technical data

### Approvals

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| Certificate no. (cULus)   | E141197                    |
| Certificate no. (cULusEX) | E223527                    |

### Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 95 mm  | Depth (inches)  | 3.7401 inch |
| Height     | 144 mm | Height (inches) | 5.6693 inch |
| Width      | 65 mm  | Width (inches)  | 2.5591 inch |
| Net weight | 746 g  |                 |             |

### Temperatures

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

### Environmental Product Compliance

|                                      |   |
|--------------------------------------|---|
| RoHS Compliance Status               | Compliant with exemption                |
| RoHS Exemption (if applicable/known) | 7a, 7cl                                 |
| REACH SVHC                           | Lead 7439-92-1, Lead monoxide 1317-36-8 |
| SCIP                                 | aa4e94ed-b5d0-4245-91e3-1adf29647214    |

### EMC conformity and approvals

|                     |   |                 |                             |
|---------------------|---|-----------------|-----------------------------|
| Explosive risk zone | EN IEC 60079-0, EN IEC 60079-7, UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex ec nC IIC T4 Gc   | Free fall       | According to IEC 60068-2-31 |
| 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 | Vibration       | according to IEC 60068-2-6  |
| Shock               | according to IEC 60068-2-27   | Safety standard | UL 61010-1, UL 61010-2-201  |

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### Environmental conditions

|                             |                            |  |
|-----------------------------|----------------------------|--|
| Operating temperature, max. | 75 °C                      |  |
| Operating temperature, min. | -40 °C                     |  |
| Humidity                    | 5 to 95 % (non-condensing) |  |
| Storage temperature, max.   | 85 °C                      |  |
| Storage temperature, min.   | -40 °C                     |  |
| Operating altitude          | Altitude, max.             | 2000 m   |
|                             | Note                       | in acc. with UL  |
|                             | Altitude, max.             | 6000 m   |
|                             | Note                       | for restrictions, see the manufacturer's declaration for operating altitude in section downloads |

### Guarantee

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

### Interfaces

|                     |  |                 |  |
|---------------------|--|-----------------|--|
| Fibre-optic ports   | 100/1000Base SFP Slot  | RJ45 ports      | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |
| Function DIP switch | QoS (on/off), Broadcast storm protection enable/disable, MAC frame filtering (on/off), Activate/deactivate IEEE 802.3az energy-efficient Ethernet, 2x for enabling/disabling power fault alarm via relay | Alarm contact   | 1 relay output with a current capacity of 1 A at 24 V DC                           |
| Signalling contact  | 1 relay output with a current capacity of 1 A at 24 V DC   | Number of ports | 14x RJ45, 2x 100/1000BaseSFP Slot  |
| LED indicator       | Power LED: PWR1, PWR2, Port LED: LNK/ACT, 10/100/1000M (RJ45 port), Power LED: PWR FLT   |                 |  |

### MTBF

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 532312 h         |
|      | Ambient temperature          | 25 °C            |
|      | 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

|                             |  |
|-----------------------------|--|
| Reverse polarity protection | Yes  |
| Supply voltage              | 12/24/48 V DC, 24 V AC, 2 redundant inputs |

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**Technical data**

|                             |                                  |        |  |
|-----------------------------|----------------------------------|--------|--|
| Overload current protection | Yes                              |        |  |
| Connection type             | 1 removable 6-pin terminal block |        |  |
| 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   |  |
| Current consumption         | Voltage                          | 24 V   |  |
|                             | Current                          | 0.43 A |  |
|                             | Voltage type                     | DC     |  |

**Switch characteristics**

|                     |            |                     |           |
|---------------------|------------|---------------------|-----------|
| Priority queues     | 4          | MAC table size      | 8 K       |
| Packet buffer size  | 4.1 Mbit   | Bandwidth backplane | 32 Gbit/s |
| Jumbo frame support | up to 9 KB |                     |           |

**Technical data**

|                       |           |                  |  |
|-----------------------|-----------|------------------|--|
| Housing main material | Metal     | Type of mounting | DIN rail, Panel (with optional mounting kit) |
| Protection degree     | IP30      | Speed            | Gigabit Ethernet                             |
| Switch                | unmanaged |                  |  |

**Technology**

|                |  |              |                          |
|----------------|--|--------------|--------------------------|
| Data switching | Store and Forward  | Flow control | IEEE 802.3x flow control |
| Standard       | IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, 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 8.0    | EC000734    | ETIM 9.0    | EC000734    |
| ETIM 10.0   | EC000734    | ECLASS 14.0 | 19-17-04-02 |
| ECLASS 15.0 | 19-17-04-02 |             |             |

## IE-SW-BLB-16-14GT-2GESFP

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## Accessories

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**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-1FE-MM-2            | Version  |
| Order No.  | <a href="#">2682450000</a> | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118692266              | °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1FE-SM-30           | Version  |
| Order No.  | <a href="#">2682460000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40       |
| GTIN (EAN) | 4050118692259              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1FE-SM-60           | Version  |
| Order No.  | <a href="#">2682470000</a> | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40       |
| GTIN (EAN) | 4050118692242              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-MM-05           | Version  |
| Order No.  | <a href="#">2682480000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 0.5 km, -40      |
| GTIN (EAN) | 4050118692235              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-MM-2            | Version  |
| Order No.  | <a href="#">2682490000</a> | SFP Transceiver, 1000 Mbps, Multimode, LC-Duplex, 2 km, -40        |
| GTIN (EAN) | 4050118692228              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-SM-10           | Version  |
| Order No.  | <a href="#">2682500000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 10 km, -40      |
| GTIN (EAN) | 4050118692211              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-SM-40           | Version  |
| Order No.  | <a href="#">2682510000</a> | SFP Transceiver, 1000 Mbps, Singlemode, LC-Duplex, 40 km, -40      |
| GTIN (EAN) | 4050118692204              | °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-SM-10-BIDI-T... | Version  |
| Order No.  | <a href="#">2682520000</a> | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km,    |
| GTIN (EAN) | 4050118692198              | -40 °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-SM-10-BIDI-T... | Version  |
| Order No.  | <a href="#">2682530000</a> | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 10 km,    |
| GTIN (EAN) | 4050118692181              | -40 °C...85 °C   |
| Qty.       | 1 ST                       |  |
| Type       | IE-SFP-1GE-SM-20-BIDI-T... | Version  |
| Order No.  | <a href="#">2682540000</a> | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km,    |
| GTIN (EAN) | 4050118692174              | -40 °C...85 °C   |
| Qty.       | 1 ST                       |  |

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|            |                            |   |
|------------|----------------------------|---|
| Type       | IE-SFP-1GE-SM-20-BIDI-T... | Version   |
| Order No.  | <a href="#">2682550000</a> | SFP Transceiver, 1000 Mbps, Singlemode BiDi, LC-Simplex, 20 km, |
| GTIN (EAN) | 4050118692167              | -40 °C...85 °C  |
| Qty.       | 1 ST                       |   |

### Mounting kit for 19" rack assembly

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



### General ordering data

|            |                            |                           |
|------------|----------------------------|---------------------------|
| Type       | RM-KIT                     | Version                   |
| Order No.  | <a href="#">1241440000</a> | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154              |                           |
| Qty.       | 1 ST                       |                           |

### 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

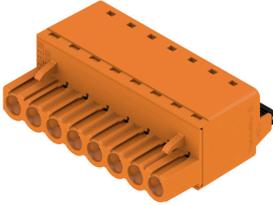
IE-WALLMOUNT-KIT-MODEL-B for use with:

- Industrial Ethernet Switches of the product ranges IE-SW- BLB16/BLB18/BLB24

### General ordering data

|            |                            |                       |
|------------|----------------------------|-----------------------|
| Type       | IE-WALLMOUNT-KIT-MODEL-B   | Version               |
| Order No.  | <a href="#">3032770000</a> | Kit for wall mounting |
| GTIN (EAN) | 4099986984523              |                       |
| Qty.       | 1 ST                       |                       |

## 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/06/180 SN BK... | Version   |
| Order No.  | <a href="#">1013470000</a> | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 6,  |
| GTIN (EAN) | 4032248721627              | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box |
| Qty.       | 60 ST                      |   |