# IE-SW-BLB-08-8GT-C

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, IP30, -40 °C...75 °C, Conformal coating |
| Order No. | 2908110000 |
| Type | IE-SW-BLB-08-8GT-C |
| GTIN (EAN) | 4099986848092 |
| Qty. | 1 items |

## IE-SW-BLB-08-8GT-C

## Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |
| Certificate no. (cULusEX) | E223527 |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 85 mm | Depth (inches) | 3.3464 inch |
| Height | 114 mm | Height (inches) | 4.4882 inch |
| Width | 44 mm | Width (inches) | 1.7323 inch |
| Net weight | 430 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 |
| REACH SVHC | No SVHC above 0.1 wt% |

### 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 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 | Ship use | DNV, BV, ABS, LR, RINA pending approval |
| Safety standard | UL 61010-1, UL 61010-2-201 | | |

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# IE-SW-BLB-08-8GT-C

## Technical data

### 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

| | | | |
|---|---|---|---|
| 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 |
| Number of ports | 8x RJ45 | 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. | 1004373 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 | | |
| Overload current protection | Yes | | |
| Connection type | 1 removable 4-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 | |

## IE-SW-BLB-08-8GT-C

## Technical data

| Current consumption | Voltage | 24 V |
| --- | --- | --- |
| | Current | 0.15 A |
| | Voltage type | DC |

### Switch characteristics

| Priority queues | 4 | MAC table size | 4 K |
| --- | --- | --- | --- |
| Packet buffer size | 1.5 Mbit | Bandwidth backplane | 16 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 | Surface protection PCB | Conformal coating |
| 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) | | |

### Classifications

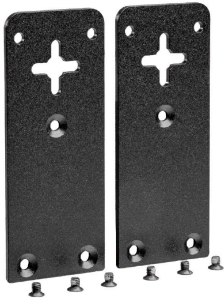| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| --- | --- | --- | --- |
| ETIM 8.0 | EC000734 | ETIM 9.0 | EC000734 |
| ETIM 10.0 | EC000734 | ECLASS 9.0 | 19-17-01-06 |
| ECLASS 9.1 | 19-17-01-06 | ECLASS 10.0 | 19-17-04-02 |
| ECLASS 11.0 | 19-17-04-02 | ECLASS 12.0 | 19-17-04-02 |
| ECLASS 13.0 | 19-17-04-02 | ECLASS 14.0 | 19-17-04-02 |
| ECLASS 15.0 | 19-17-04-02 | | |

# IE-SW-BLB-08-8GT-C

## 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 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.
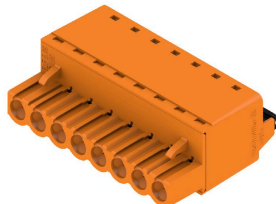IE-WALLMOUNT-KIT-MODEL-A for use with:
• Industrial Ethernet Switches of the product range IE-SW- BLB05/BLB08/BLB10
IE-WALLMOUNT-KIT-MODEL-B for use with:
• Industrial Ethernet Switches of the product ranges IE-SW- BLB16/BLB18/BLB24

#### General ordering data

| Type | IE-WALLMOUNT-KIT-MODEL-A | Version |
|---|---|---|
| Order No. | 3032760000 | Kit for wall mounting |
| GTIN (EAN) | 4099986984516 | |
| Qty. | 1 ST | |

# IE-SW-BLB-08-8GT-C

## Accessories

### 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 |
|------|----------------------------|---------|
| Order No. | 1013450000 | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, |
| GTIN (EAN) | 4032248721603 | 180°, PUSH IN with actuator, Clamping range, max. : 3.31 mm², Box |
| Qty. | 90 ST | |