

## IE-SW-BL08-6TX-2SCS

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

www.weidmueller.com

### Product image



- Variations with 5 or 8 ports
- Variations for Gigabit Ethernet
- Sturdy metal housing
- Compact design
- Two redundant power inputs 12/24/48 V DC
- Variations with copper and fibre-optic interface (multimode and singlemode)
- Extensive approvals: CE, FCC, cULus, Class I Div. 2 / ATEX Zone 2, DNV-GL

### General ordering data

|            |  |
|------------|--|
| Version    | Network switch, unmanaged, Fast Ethernet,<br>Number of ports: 6x RJ45, 2 * SC Single-mode,<br>IP30, -10 °C...60 °C |
| Order No.  | <a href="#">1412110000</a>   |
| Type       | IE-SW-BL08-6TX-2SCS  |
| GTIN (EAN) | 4050118212679  |
| Qty.       | 1 Stück  |

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Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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## Technische Daten

### Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 70 mm  | Depth (inches)  | 2.756 inch |
| Height     | 115 mm | Height (inches) | 4.528 inch |
| Width      | 50 mm  | Width (inches)  | 1.969 inch |
| Net weight | 275 g  |                 |            |

### Temperatures

|                             |                            |                             |                |
|-----------------------------|----------------------------|-----------------------------|----------------|
| Storage temperature         | -40 °C...85 °C             | Operating temperature       | -10 °C...60 °C |
| Operating temperature, min. | -10 °C                     | Operating temperature, max. | 60 °C          |
| Humidity                    | 5 to 95 % (non-condensing) |                             |                |

### EMC conformity and approvals

|               |  |                     |  |
|---------------|--|---------------------|--|
| EMC standards | EN 55032, EN 55035, 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 - 6 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8 PFMF: 100A/m | Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc |
| Free fall     | According to IEC 60068-2-32  | Safety standard     | UL508  |
| Shock         | according to IEC 60068-2-27  | Vibration           | according to IEC 60068-2-6   |

### Environmental conditions

|                             |                            |                             |       |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity                    | 5 to 95 % (non-condensing) | Operating temperature, max. | 60 °C |
| Operating temperature, min. | -10 °C                     | Storage temperature, max.   | 85 °C |
| Storage temperature, min.   | -40 °C                     |                             |       |

### Fibre optic transceiver characteristics

|                             |            |          |
|-----------------------------|------------|----------|
| Transmission rate           | 100 Mbps   |          |
| Transceiver type            | Singlemode |          |
| Connector type              | SC-Duplex  |          |
| Transmission distance, typ. | 40 km      |          |
| Wavelength                  | typ.       | 1,310 nm |
|                             | Wavelength | TX       |
|                             | min.       | 1,280 nm |
|                             | max.       | 1,340 nm |
|                             | Wavelength | RX       |
|                             | min.       | 1,100 nm |
| Receive power               | min.       | -34 dBm  |
|                             | max.       | -3 dBm   |
| Transmission power          | min.       | -5 dBm   |
|                             | max.       | 0 dBm    |
| Link-budget                 | 29 dB      |          |

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**Note** When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.

### Guarantee

Time interval 5 years

### Interfaces

|                   |   |                     |  |
|-------------------|---|---------------------|--|
| Fibre-optic ports | 100BaseFX ports (SC connector), Singlemode                                    | Function DIP switch | 1x for enabling/disabling the broadcast storm protection |
| LED indicator     | PWR1, PWR2, 10/100M (TP-Port), 100M (fibre-optic port).                       | Number of ports     | 6x RJ45, 2 * SC Single-mode                              |
| RJ45 ports        | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |                     |  |

### MTBF

|      |                              |                          |
|------|------------------------------|--------------------------|
| MTBF | According to Standard        | Telcordia (Bellcore), GB |
|      | Operating time (hours), min. | 2,428,212 h              |

### Power supply

|                             |                                   |       |  |
|-----------------------------|-----------------------------------|-------|--|
| Connection type             | 1 removable 4-pin terminal block  |       |  |
| Current consumption         | 0.22 A at 24 V                    |       |  |
| Overload current protection | 1.1 A                             |       |  |
| Reverse polarity protection | Available                         |       |  |
| Voltage supply              | 12/24/48 V DC, 2 redundant inputs |       |  |
| Voltage supply range        | Voltage type                      | DC    |  |
|                             | Voltage, min.                     | 9.6 V |  |
|                             | Voltage, max.                     | 60 V  |  |

### Switch characteristics

|                     |            |                |     |
|---------------------|------------|----------------|-----|
| Bandwidth backplane | 1.6 Gbit/s | MAC table size | 2 K |
| Packet buffer size  | 768 Kbit   |                |     |

### Technical data

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

### Technology

|                |   |              |  |
|----------------|---|--------------|--|
| Data switching | Store and Forward   | Flow control | IEEE 802.3x flow control, Back pressure flow control |
| Standard       | IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control |              |  |

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### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000734    | ETIM 7.0    | EC000734    |
| ETIM 8.0    | 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 |

### Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 9229992a-00b9-4096-8962-200a7f33e289 |

### Approvals

Approvals



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

### Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">ATEX certificate</a><br><a href="#">KC certificate</a><br><a href="#">EU Declaration of Conformity</a><br><a href="#">UK Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Engineering Data                            | <a href="#">WSCAD, EPLAN</a>   |
| Product Change Notification                 | <a href="#">Product Change Notification IE-SW-BL08-series</a>  |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |