

**IE-SW-BL08-6TX-2SCS****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 (multi-mode 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, Number of ports: 6x RJ45, 2 * SC Single-mode, IP30, -10 °C...60 °C |
| Order No.  | <a href="#">1412110000</a>   |
| Type       | IE-SW-BL08-6TX-2SCS  |
| GTIN (EAN) | 4050118212679  |
| Qty.       | 1 pc(s).   |

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**Technical data****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 |
| 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 |
|                             | max.       | 1,600 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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**Technical data****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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## Technical data

## 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 |

## 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>  |
| 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>   |