

**Industrial Ethernet  
IE-SW-BL05-4TX-1SC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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**

|            |                                                                                                                    |
|------------|--------------------------------------------------------------------------------------------------------------------|
| Type       | IE-SW-BL05-4TX-1SC                                                                                                 |
| Order No.  | <a href="#">1240890000</a>                                                                                         |
| Version    | Network switch, unmanaged, Fast Ethernet,<br>Number of ports: 4 x RJ45, 1 * SC Multi-mode,<br>IP30, -10 °C...60 °C |
| GTIN (EAN) | 4050118028669                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                           |

## Industrial Ethernet IE-SW-BL05-4TX-1SC

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

## Technical data

### Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Width      | 30 mm  | Width (inches)  | 1.181 inch |
| Height     | 115 mm | Height (inches) | 4.528 inch |
| Depth      | 70 mm  | Depth (inches)  | 2.756 inch |
| Net weight | 175 g  |                 |            |

### Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

### EMC conformity and approvals

|                     |                                                                                                                                                                                                                                                                                          |                 |                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|
| EMC standards       | EN 55032, EN 55024, CISPR 32, 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 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8 | Safety standard | UL508                      |
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc                                                                                                                                                                                                           | Ship use        | DNV-GL                     |
| Shock               | according to IEC 60068-2-27                                                                                                                                                                                                                                                              | Vibration       | according to IEC 60068-2-6 |
| Free fall           | According to IEC 60068-2-32                                                                                                                                                                                                                                                              |                 |                            |

### 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            | Multimode     |
| Connector type              | SC-Duplex     |
| Transmission distance, typ. | 5 km          |
| Wavelength                  | typ. 1,300 nm |
|                             | Wavelength TX |
|                             | min. 1,260 nm |
|                             | max. 1,360 nm |
|                             | Wavelength RX |
|                             | min. 1,100 nm |
|                             | max. 1,600 nm |
| Receive power               | min. -32 dBm  |
|                             | max. -3 dBm   |
| Transmission power          | min. -20 dBm  |
|                             | max. -10 dBm  |

## Industrial Ethernet IE-SW-BL05-4TX-1SC

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

### Technical data

Link-budget 12 dB

#### Guarantee

Time interval 5 years

#### Interfaces

|               |                                                                               |                   |                                           |
|---------------|-------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| DIP switch    | 1x for enabling/disabling the broadcast storm protection                      | Fibre-optic ports | 100BaseFX ports (SC connector), Multimode |
| LED indicator | PWR1, PWR2, 10/100M (TP-Port), 100M (fibre-optic port).                       | Number of ports   | 4 x RJ45, 1 * SC Multimode                |
| RJ45 ports    | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port |                   |                                           |

#### MTBF

MTBF 3,040,784 hrs Database Telcordia (Bellcore), GB

#### Power supply

|                             |                                   |       |
|-----------------------------|-----------------------------------|-------|
| Connection type             | 1 removable 4-pin terminal block  |       |
| 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  |
| Current consumption         | 0.11 A at 24 V                    |       |
| Reverse polarity protection | Available                         |       |
| Overload current protection | 1.1 A                             |       |

#### Switch characteristics

|                     |          |                |     |
|---------------------|----------|----------------|-----|
| Bandwidth backplane | 1 Gbps   | MAC table size | 1 K |
| Packet buffer size  | 512 Kbit |                |     |

#### Technical data

|                       |                                              |                   |      |
|-----------------------|----------------------------------------------|-------------------|------|
| Housing main material | Aluminium                                    | Protection degree | IP30 |
| Type of mounting      | DIN rail, Panel (with optional mounting kit) |                   |      |

#### 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 |              |                                                      |

## Industrial Ethernet IE-SW-BL05-4TX-1SC

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

## Technical data

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC000734    | ETIM 7.0   | EC000734    |
| eClass 9.0  | 19-17-01-06 | eClass 9.1 | 19-17-01-06 |
| eClass 10.0 | 19-17-04-02 |            |             |

### Approvals

Approvals



ROHS

Conform

### Downloads

|                                             |                                                                                                                                                          |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">DNV-GL certificate</a><br><a href="#">ATEX certificate</a><br><a href="#">KC certificate</a><br><a href="#">EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                 |
| Engineering Data                            | <a href="#">STEP</a>                                                                                                                                     |
| Product Change Notification                 | <a href="#">Product Change Notification IE-SW-BL05-series</a>                                                                                            |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>                                                                                                              |