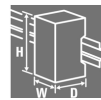


**IE-SW-BL05-4TX-1ST****Weidmüller Interface GmbH & Co. KG**

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 (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: 4 x RJ45, 1 * ST Multi-mode,<br>IP30, -10 °C...60 °C |
| Order No.  | <a href="#">1240880000</a>                                                                                         |
| Type       | IE-SW-BL05-4TX-1ST                                                                                                 |
| GTIN (EAN) | 4050118028829                                                                                                      |
| 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      | 30 mm  | Width (inches)  | 1.181 inch |
| Net weight | 175 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                                                                          |
| Ship use      | DNV                                                                                                                                                                                                                                                                                        | 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            | Multimode  |          |  |
| Connector type              | ST-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   |  |

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## Technical data

|                    |       |         |
|--------------------|-------|---------|
| Transmission power | min.  | -20 dBm |
|                    | max.  | -10 dBm |
| Link-budget        | 12 dB |         |

## Guarantee

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

## Interfaces

|                   |                                                                               |                     |                                                          |
|-------------------|-------------------------------------------------------------------------------|---------------------|----------------------------------------------------------|
| Fibre-optic ports | 100BaseFX ports (ST connector), Multimode                                     | 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     | 4 x RJ45, 1 * ST Multi-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. | 3,040,784 h              |

## Power supply

|                             |                                   |       |  |
|-----------------------------|-----------------------------------|-------|--|
| Connection type             | 1 removable 4-pin terminal block  |       |  |
| Current consumption         | 0.11 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 Gbit/s | MAC table size | 1 K |
| Packet buffer size  | 512 Kbit |                |     |

## Technical data

|                       |                                              |                   |           |
|-----------------------|----------------------------------------------|-------------------|-----------|
| Housing main material | Aluminium                                    | Protection degree | IP30      |
| Speed                 | Fast Ethernet                                | Switch            | unmanaged |
| 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 |              |                                                      |

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## Technical data

## 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</a>                                                                                                                                              |
| Product Change Notification                 | <a href="#">Product Change Notification IE-SW-BL05-series</a>                                                                                                      |
| User Documentation                          | <a href="#">Hardware Installation Guide</a>                                                                                                                        |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                           |

## IE-SW-BL05-4TX-1ST

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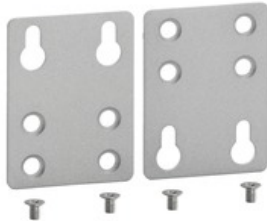
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## Accessories

## Mounting kit for wall mounting



Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet components.

**IE-WALLMOUNT-KIT-30MM** for use with:

- Industrial Ethernet Switches of the product range **IE-SW-BL05**

**IE-WALLMOUNT-KIT-46MM** for use with:

- Industrial Ethernet Switches of the product ranges **IE-SW- BL06/BL08/VL05/VL08/VL09/VL16/PL06/PL08/PL09/PL10/PL16/PL18**
- Industrial Ethernet media converters of the product range **IE-MC-VL**
- Industrial Ethernet switches of the product range **IE-WL-AP**

## General ordering data

|            |                            |
|------------|----------------------------|
| Type       | IE-WALLMOUNT-KIT-30MM      |
| Order No.  | <a href="#">1504450000</a> |
| GTIN (EAN) | 4050118312300              |
| Qty.       | 1 pc(s).                   |

## ST



Mounting rail outlet, ST junction design according to IEC 61754-2

## General ordering data

|            |                            |                                                        |
|------------|----------------------------|--------------------------------------------------------|
| Type       | IE-XM-ST/ST                | Version                                                |
| Order No.  | <a href="#">8808340000</a> | Mounting rail outlet, fibre-optic, ST-ST coupler, IP20 |
| GTIN (EAN) | 4032248505920              |                                                        |
| Qty.       | 1 pc(s).                   |                                                        |

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## 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.  | <a href="#">1241440000</a> | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154              |                           |
| Qty.       | 1 pc(s).                   |                           |

## Ethernet



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

## General ordering data

|            |                            |                                                                                                                           |
|------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Type       | VDATA CAT6                 | Version                                                                                                                   |
| Order No.  | <a href="#">1348590000</a> | Terminal rail fixing, Surge protection, Cat.6, 802.3 at Type 1, 802.3 at Type 2, 802.3 bt Type 3, 802.3 bt at Type 4, PoE |
| GTIN (EAN) | 4050118153002              |                                                                                                                           |
| Qty.       | 1 pc(s).                   |                                                                                                                           |