

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

Klingenbergstraße 26

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**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-BL05-4GT-1GS                                                                                                                                                        |
| Order No.  | <a href="#">2435400000</a>                                                                                                                                                |
| Version    | Network switch, unmanaged, Gigabit Ethernet, Number of ports: 4 * RJ45 10/100/1000BaseT(X), 1 * combo-port (10/100/1000BaseT(X) or 100/1000BaseSFP), IP30, -10 °C...60 °C |
| GTIN (EAN) | 4050118447224                                                                                                                                                             |
| Qty.       | 1 pc(s).                                                                                                                                                                  |

Creation date April 17, 2020 2:26:57 PM CEST

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## Technical data

### Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Width      | 29 mm  | Width (inches)  | 1.142 inch |
| Height     | 135 mm | Height (inches) | 5.315 inch |
| Depth      | 105 mm | Depth (inches)  | 4.134 inch |
| Net weight | 422 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: 2 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, EN 60950-1          |
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA nC 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                     |                             |       |

### Guarantee

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

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### Interfaces

|                   |                                                                                                                                                                                   |               |                                                                                                                                                                                                                        |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm contact     | 1 relay output with a current capacity of 1 A at 24 V DC                                                                                                                          | DIP switch    | Port surveillance, Broadcast storm protection enable/disable, Enable/disable jumbo frame support, Activate/deactivate IEEE 802.3az energy-efficient Ethernet, Switching between 100BaseSFP and 1000BaseSFP on SFP port |
| Fibre-optic ports | 100/1000Base SFP Slot                                                                                                                                                             | LED indicator | Power LED: PWR1, PWR2, FAULT, 10/100/1000M                                                                                                                                                                             |
| Note 1            | 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. | Note 2        | The SFP slot can only be used with Weidmüller SFP transceivers. Third-party SFP transceivers are not accepted by the switch.                                                                                           |
| Number of ports   | 4 * RJ45<br>10/100/1000BaseT(X),<br>1 * combo-port<br>(10/100/1000BaseT(X) or 100/1000BaseSFP)                                                                                    | RJ45 ports    | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port                                                                                                                                     |

### MTBF

|      |               |          |                          |
|------|---------------|----------|--------------------------|
| MTBF | 2,823,446 hrs | Database | Telcordia (Bellcore), GB |
|------|---------------|----------|--------------------------|

### Power supply

|                             |                                   |       |  |
|-----------------------------|-----------------------------------|-------|--|
| Connection type             | 1 removable 6-pin terminal block  |       |  |
| Current consumption         | 0.16 A at 24 V                    |       |  |
| 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 | 10 Gbps | Jumbo frame support | up to 10 KB |
| MAC table size      | 8 K     | Packet buffer size  | 1,024 Kbit  |

### Technical data

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

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### Technology

| Data switching | Store and Forward                                                                                                                                                                                                         | Flow control | IEEE 802.3x flow control,<br>Back pressure flow control |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|
| Standard       | IEEE 802.3 for 10BaseT,<br>IEEE 802.3u for<br>100BaseT(X) and<br>100BaseFX, IEEE 802.3ab<br>for 1000BaseT(X), IEEE<br>802.3z for 1000BaseX,<br>IEEE 802.3x for flow<br>control, IEEE 802.3az<br>Energy-Efficient Ethernet |              |                                                         |

### 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<br>Conformity | <a href="#">CC-Link IE Field Certificate</a><br><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="#">STEP</a>                                                                                                                                                                                     |
| User Documentation                             | <a href="#">Hardware Installation Guide</a>                                                                                                                                                              |