

IE-SW-BL05-4TX-1SCS

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

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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

| | |
|------------|---|
| Version | Network switch, unmanaged, Fast Ethernet, Number of ports: 4 x RJ45, 1 * SC Single-mode, IP30, -10 °C...60 °C |
| Order No. | 1240870000 |
| Type | IE-SW-BL05-4TX-1SCS |
| GTIN (EAN) | 4050118028836 |
| 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-GL | 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 |

Creation date March 8, 2023 10:25:42 AM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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-5 dBm

0 dBm info@weidmueller.com

Technical data

| | | |
|--------------------|---|--------|
| Transmission power | min. | -5 dBm |
| | max. | 0 dBm |
| Link-budget | 29 dB | |
| 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 | 4 x RJ45, 1 * 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. | 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 Gbps | 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) | | |

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info@weidmueller.comwww.weidmueller.com IEEE 802.3x flow control,
Back pressure flow control

Technical data

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 | | |

Classifications

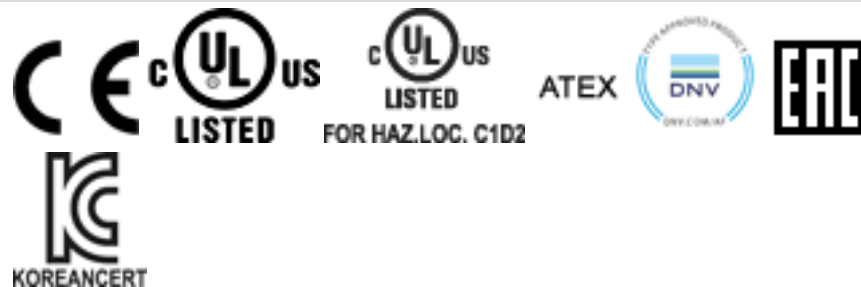
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000734 | ETIM 7.0 | EC000734 |
| ETIM 8.0 | EC000734 | ECLASS 9.0 | 19-17-01-06 |
| ECLASS 9.1 | 19-17-01-06 | ECLASS 10.0 | 19-17-04-02 |
| ECLASS 11.0 | 19-17-04-02 | ECLASS 12.0 | 19-17-04-02 |

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 | ATEX certificate KC certificate EU Declaration of Conformity UK Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| Product Change Notification | Product Change Notification IE-SW-BL05-series |
| User Documentation | Hardware Installation Guide |
| Catalogues | Catalogues in PDF-format |