

IE-SW-ELB-05-4TX-1FESFP**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of EcoLine Series B Switches**

- Covers the most common port combinations with RJ45 and SFP ports for flexible usage
- Network availability is strongly increased thanks to Broadcast Storm Protection
- Support real time communication e.g. in PROFINET networks due to the "Quality of Service" functionality – "PROFINET Conformance Class A"
- Very small design for installation in places where space is critical
- A rotatable DIN-rail-clip allows use at locations offering very limited vertical space such as installation cabinets
- The AC voltage input enables use without a switching power supply to save cost in e.g. building automation
- Plastic-free, handling optimized packaging for fast processing and environmental friendliness

General ordering data

| | |
|------------|--|
| Version | Network switch, unmanaged, Fast Ethernet, Number of ports: 4x RJ45, 1x 100BaseSFP slot, IP40, -10 °C...60 °C |
| Order No. | 2828590000 |
| Type | IE-SW-ELB-05-4TX-1FESFP |
| GTIN (EAN) | 4064675369950 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 64 mm | Depth (inches) | 2.52 inch |
| Height | 103 mm | Height (inches) | 4.055 inch |
| Width | 26 mm | Width (inches) | 1.024 inch |
| Net weight | 130 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 55024, CISPR 32, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz bis 1 GHz: 3 V/m, IEC 61000-4-4 EFT: Power: 0.5 kV; Signal: 0.5 kV, IEC 61000-4-5 Surge: Power: 0.5 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 Vrms | Free fall | |
| Safety standard | UL 61010-1, UL 61010-2-201 | Shock | According to IEC 60068-2-31 according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | | |

Environmental conditions

| | | |
|-----------------------------|----------------------------|-----------------|
| Humidity | 5 to 95 % (non-condensing) | |
| Operating altitude | Altitude, max. | 2,000 m |
| | Note | in acc. with UL |
| 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

| | | | |
|-------------------|---|---------------------|---|
| Fibre-optic ports | | Function DIP switch | 1x for enabling QoS (according to IEEE 802.1p), 1x for enabling/disabling the broadcast storm protection |
| LED indicator | 100BaseSFP-Slot | Number of ports | 4x RJ45, 1x 100BaseSFP slot |
| | Power LED: PWR, Port LED: LNK/ACT, 10/100M (RJ45 port), 100M (SFP-Port) | | |
| RJ45 ports | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | | |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 463,236 h |

Management features

| | | | |
|------------------------|--------------------------|-----------------------------|---|
| Network traffic filter | Quality of Service (QoS) | Industrial protocol support | PROFINET device acc. to conformance class A |
|------------------------|--------------------------|-----------------------------|---|

Power supply

| | | |
|-----------------------------|--|---------|
| Current consumption | Voltage | 24 V DC |
| | Current | 0.17 A |
| Overload current protection | Yes | |
| Reverse polarity protection | Yes | |
| Voltage supply | 12/24/48 V DC, 24 V AC, 1 single input | |
| Voltage supply range | Voltage type | DC |
| | Voltage, min. | 9.6 V |
| | Voltage, max. | 60 V |
| | Voltage type | AC |
| | Voltage, min. | 18 V |
| | Voltage, max. | 36 V |

Switch characteristics

| | | | |
|---------------------|----------|----------------|-----|
| Bandwidth backplane | 1 Gbit/s | MAC table size | 1 K |
| Packet buffer size | 448 Kbit | | |

Technical data

| | | | |
|-----------------------|---------------|-------------------|-----------|
| Housing main material | Metal | Protection degree | IP40 |
| Speed | Fast Ethernet | Switch | unmanaged |
| Type of mounting | DIN rail | | |

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Technology

| | | | |
|----------------|---|--------------|--------------------------|
| Data switching | Store and Forward | Flow control | IEEE 802.3x flow control |
| Standard | IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3x for flow control, IEEE 802.1p for Class of Service / Quality of Service (CoS/QoS) | | |

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 | 95f06c58-199a-4ab7-817c-c2503ba62133 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E141197 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | KC certificate EU Declaration of Conformity UK Declaration of Conformity RCM Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Hardware Installation Guide |
| Catalogues | Catalogues in PDF-format |

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www.weidmueller.com**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. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |

SFP transceiver (for use with switches of Eco- Advanced- and SubstationLine)**Features of SFP-Transceiver series**

- Huge variety of transceiver types for several transmission speeds (up to 10 Gigabit Ethernet) and distances (up to 60 km)
- BiDi SFP models for communication via single fiber
- Easy control of transceiver status due to support of Digital Diagnostic Monitoring (DDM)
- Hot pluggable (during operation)
- Class 1 laser product, EN60825-1 compliant
- Applicable for switches of the Eco-, Advanced- and SubstationLine

General ordering data

| | | |
|------------|----------------------------|--|
| Type | IE-SFP-1FE-SM-60 | Version |
| Order No. | 2682470000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 60 km, -40 |
| GTIN (EAN) | 4050118692242 | °C...85 °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1FE-MM-2 | Version |
| Order No. | 2682450000 | SFP Transceiver, 100 Mbps, Multimode, LC-Duplex, 4 km, -40 °C...85 |
| GTIN (EAN) | 4050118692266 | °C |
| Qty. | 1 pc(s). | |
| Type | IE-SFP-1FE-SM-30 | Version |
| Order No. | 2682460000 | SFP Transceiver, 100 Mbps, Singlemode, LC-Duplex, 30 km, -40 |
| GTIN (EAN) | 4050118692259 | °C...85 °C |
| Qty. | 1 pc(s). | |