

## IE-SW-ELB-16-16TX

**Weidmüller Interface GmbH & Co. KG**

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Germany

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### 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: 16x RJ45, IP40, -10 °C...60 °C |
| Order No.  | <a href="#">2828580000</a>  |
| Type       | IE-SW-ELB-16-16TX   |
| GTIN (EAN) | 4064675369936   |
| Qty.       | 1 items   |

**Technical data**

**Approvals**

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate no. (cULus) | E141197                    |

**Dimensions and weights**

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 110 mm | Depth (inches)  | 4.3307 inch |
| Height     | 143 mm | Height (inches) | 5.6299 inch |
| Width      | 50 mm  | Width (inches)  | 1.9685 inch |
| Net weight | 526 g  |                 |             |

**Temperatures**

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -10 °C...60 °C |
| Humidity            | 5 to 95 % (non-condensing) |                       |                |

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl                          |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 95f06c58-199a-4ab7-817c-c2503ba62133 |

**EMC conformity and approvals**

|                 |                             |               |  |
|-----------------|-----------------------------|---------------|--|
| Free fall       | According to IEC 60068-2-31 | 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, IEC 61000-4-8 |
| Vibration       | according to IEC 60068-2-6  | Shock         | according to IEC 60068-2-27  |
| Safety standard | UL 61010-1, UL 61010-2-201  |               |  |

**Environmental conditions**

|                             |                            |                 |  |
|-----------------------------|----------------------------|-----------------|--|
| Operating temperature, max. | 60 °C                      |                 |  |
| Operating temperature, min. | -10 °C                     |                 |  |
| Humidity                    | 5 to 95 % (non-condensing) |                 |  |
| Storage temperature, max.   | 85 °C                      |                 |  |
| Storage temperature, min.   | -40 °C                     |                 |  |
| Operating altitude          | Altitude, max.             | 2000 m          |  |
|                             | Note                       | in acc. with UL |  |

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## Technical data

## Guarantee

Time interval 5 years

## Interfaces

|                 |   |                     |  |
|-----------------|---|---------------------|--|
| RJ45 ports      | 10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Function DIP switch | 1x for enabling QoS (according to IEEE 802.1p), 1x for enabling/disabling the broadcast storm protection |
| Number of ports | 16x RJ45  | LED indicator       | Power LED: PWR, Port LED: LNK/ACT, 10/100M (RJ45 port)   |

## MTBF

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 412528 h         |

## Management features

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

## Power supply

|                             |  |        |  |
|-----------------------------|--|--------|--|
| Reverse polarity protection | Yes                                    |        |  |
| Supply voltage              | 12/24/48 V DC, 24 V AC, 1 single input |        |  |
| Overload current protection | Yes                                    |        |  |
| Connection type             | 1 removable 2-pin terminal block       |        |  |
| 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   |  |
| Current consumption         | Voltage                                | 24 V   |  |
|                             | Current                                | 0.17 A |  |

## Switch characteristics

|                    |        |                     |            |
|--------------------|--------|---------------------|------------|
| Priority queues    | 2      | MAC table size      | 8 K        |
| Packet buffer size | 4 Mbit | Bandwidth backplane | 3.2 Gbit/s |

## Technical data

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

## Technology

|                         |   |              |                          |
|-------------------------|---|--------------|--------------------------|
| Data switching Standard | Store and Forward<br>IEEE 802.3 for 10BASE-T, IEEE 802.3u for 100BASE-TX, IEEE 802.3x for flow control, IEEE 802.1p for | Flow control | IEEE 802.3x flow control |
|-------------------------|---|--------------|--------------------------|

**Technical data**

Class of Service / Quality  
of Service (CoS/QoS)

**Classifications**

| Classifications |             |             |             |
|-----------------|-------------|-------------|-------------|
| ETIM 8.0        | EC000734    | ETIM 9.0    | EC000734    |
| ETIM 10.0       | EC000734    | ECLASS 14.0 | 19-17-04-02 |
| ECLASS 15.0     | 19-17-04-02 |             |             |