

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

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Weidmüller's BasicLine consists of unmanaged Plug & Play switches in a robust IP 30 protected aluminium housing. The equipment can be delivered with Fast Ethernet and Gigabit Ethernet ports and offers an economical solution for industrial Ethernet networks. One variety is fitted with Fast Ethernet and Power-over-Ethernet ports. All the equipment has been developed for use in harsh industrial environments and has international approvals such as CE, cULus, Class I Div. 2 / ATEX and DNV / GL, and is therefore able to be used in many international applications.

- Plug & Play switches in a rugged aluminium housing (IP 30)
- Compact design
- Switches for an economical entry solution
- Fast Ethernet versions with 5 and 8 ports
- Models with copper or fibre-optic interface (multimode and singlemode)
- Full Gigabit Plug and Play switch with 5 ports
- Power-over-Ethernet (PoE) switch with 6 Fast Ethernet ports, 4 of them PoE+ ports
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL

### General ordering data

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| Type       | IE-SW-BL05-4TX-1ST                                                                                           |
| Order No.  | <a href="#">1240880000</a>                                                                                   |
| Version    | Network switch, unmanaged, Fast Ethernet, Number of ports: 4 x RJ45, 1 * ST Multi-mode, IP30, -10 °C...60 °C |
| GTIN (EAN) | 4050118028829                                                                                                |
| Qty.       | 1 pc(s).                                                                                                     |

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## Technical data

### Dimensions and weights

|        |        |                 |            |
|--------|--------|-----------------|------------|
| Width  | 30 mm  | Width (inches)  | 1.181 inch |
| Height | 115 mm | Height (inches) | 4.528 inch |
| Depth  | 70 mm  | Depth (inches)  | 2.756 inch |
| Weight | 175 g  | Net weight      | 175 g      |

### EMC conformity and approvals

|               |                                                                                                                                                                                                                            |                     |                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------|
| EMC standards | FCC Part 15, CISPR (EN55022) Class A, EN 61000-4-2 (ESD), Stage 3, EN 61000-4-3 (RS), Stage 3, EN 61000-4-4 (EFT), Stage 3, EN 61000-4-5 (surge voltage), Stage 3, EN 61000-4-6 (CS), Stage 3, EN 61000-4-8, EN 61000-4-11 | 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                                                                                                                                                                                                | Security            | 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 100BaseFX

|                           |          |                                |                                                                        |
|---------------------------|----------|--------------------------------|------------------------------------------------------------------------|
| Link budget multimode     | 12 dB    | Max. TX multi-mode             | -10 dBm                                                                |
| Min. TX multi-mode        | -20 dBm  | Receive sensitivity multi-mode | -32 dBm                                                                |
| System reserve multi-mode |          | Typical distances multi-mode   | 4 km (62.5/125 µm multi-mode cable), 5 km (50/125 µm multi-mode cable) |
|                           | -6 dBm   |                                |                                                                        |
| Wavelength multi-mode     | 1,300 nm |                                |                                                                        |

### Guarantee

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

### Interfaces

|               |                                                                               |                   |                                           |
|---------------|-------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| DIP switch    | 1x for enabling/disabling the broadcast storm protection                      | Fibre-optic ports | 100BaseFX ports (ST connector), Multimode |
| 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 |                   |                                           |

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## Technical data

### MTBF

|      |               |      |                          |
|------|---------------|------|--------------------------|
| MTBF | 3,040,780 hrs | MTBF | Telcordia (Bellcore), GB |
|------|---------------|------|--------------------------|

### 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      |
| Supply voltage              | 12/24/48 V DC, 9.6 to 60 V DC, 18 to 30 V AC, 47 to 63 Hz, 2 redundant inputs |                             |                |

### Switch characteristics

|                |     |                    |          |
|----------------|-----|--------------------|----------|
| MAC table size | 1 K | Packet buffer size | 512 Kbit |
|----------------|-----|--------------------|----------|

### Technical data

|                       |               |                   |      |
|-----------------------|---------------|-------------------|------|
| Housing main material | Aluminium     | Protection degree | IP30 |
| Type of mounting      | Mounting rail |                   |      |

### 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) und<br>100BaseFX, IEEE 802.3x<br>for flow control |              |                                                         |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 4.0   | EC002598    | ETIM 5.0   | EC002598    |
| ETIM 6.0   | EC000734    | eClass 6.2 | 19-17-01-06 |
| eClass 7.1 | 19-17-01-06 | eClass 8.1 | 19-17-01-06 |
| eClass 9.0 | 19-17-01-06 | eClass 9.1 | 19-17-01-06 |

### Approvals

Approvals



ROHS Conform

### Downloads

|                           |                                             |
|---------------------------|---------------------------------------------|
| Engineering data          | <a href="#">EPLAN, WSCAD</a>                |
| Package insert            | <a href="#">Hardware Installation Guide</a> |
| Declaration of Conformity | <a href="#">DE_PN4800_160418_001.pdf</a>    |

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