

**Industrial Ethernet  
IE-SW-PL18M-2GC14TX2ST**

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Weidmüller's Premium Line consists of high-end switches with advanced management and security features. It is suitable for demanding network solutions. The equipment can be delivered with Fast Ethernet or Gigabit Ethernet ports. One variety is fitted with Fast Ethernet and Power-over-Ethernet ports. With their advanced ring redundancy technology (recovery time  $\leq 20$  ms), these devices raise the reliability and availability of your industrial networks. The optional SFP transceiver can be fitted offering a high degree of flexibility. Gigabit versions permit use in networks with a high volume of communications

- Managed Fast Ethernet versions in a high-quality metal housing (IP 30)
- Managed Power-over-Ethernet (PoE) switch with 6 Fast Ethernet ports, 4 of them PoE+ ports
- Versions with 10 or 18 ports and Gigabit uplink ports
- Full Gigabit switch with 9 ports
- Supports all standard TCP/IP-based protocols in industrial networks (for example Ethernet/IP, Modbus/TCP)
- Integrated redundancy mechanisms (recovery time  $\leq 20$  ms) increase the reliability in network ring structures
- Approvals: CE, FCC, cULus, Class I Div. 2 / ATEX, DNV / GL

**General ordering data**

|            |   |
|------------|---|
| Type       | IE-SW-PL18M-2GC14TX2ST  |
| Order No.  | <a href="#">1241340000</a>  |
| Version    | Network switch, managed, Gigabit Ethernet, Number of ports: 14 * RJ45 10/100BaseT(X), 2 * ST Multi-mode, 2 * combo-ports (10/100/1000BaseT(X) or 100/1000BaseSFP), IP 30, 0 °C...+60 °C |
| GTIN (EAN) | 4050118029352   |
| Qty.       | 1 pc(s).  |

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## Technische Daten

### Dimensions and weights

|            |          |        |         |
|------------|----------|--------|---------|
| Width      | 94 mm    | Height | 135 mm  |
| Depth      | 142.7 mm | Weight | 1,630 g |
| Net weight | 1,630 g  |        |         |

### Downloads

|          |               |        |        |
|----------|---------------|--------|--------|
| Firmware | Version 2.6.4 | Manual | Manual |
|----------|---------------|--------|--------|

### EMC conformity and approvals

|                                    |  |                                 |   |
|------------------------------------|--|---------------------------------|---|
| EMC standards                      | FCC Part 15, CISPR (EN55022) Class A, EN 61000-4-2 (ESD), Stage 2, EN 61000-4-3 (RS), Stage 3, EN 61000-4-4 (EFT), Stage 2, EN 61000-4-5 (surge voltage), Stage 3, EN 61000-4-6 (CS), Stage 3, EN 61000-4-8, EN 61000-4-12EN61000-4-12 | Explosive risk zone             | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2, Ex nC IIC |
| Free fall                          | IEC 60068-2-32   | Security                        | UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1                        |
| Ship use                           | DNV, GL  | Shock resistance IEC 60068-2-27 | Available   |
| Vibration resistance IEC 60068-2-6 | Available  |                                 |   |

### Environmental conditions

|                             |                            |                             |       |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity                    | 5 to 95 % (non-condensing) | Operating temperature, max. | 60 °C |
| Operating temperature, min. | 0 °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 | -6 dBm   | Typical distances multi-mode   | 5 km (50/125 µm multi-mode cable), 4 km (62.5/125 µm multi-mode cable) |
| Wavelength multi-mode     | 1,300 nm |                                |  |

### Guarantee

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

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## Technische Daten

### Interfaces

|                |   |                        |   |
|----------------|---|------------------------|---|
| Alarm contact  | 2 relay outputs with a current capacity of 1 A at 24 V DC   | Console port interface | RS-232  |
| Digital inputs | 2 inputs with the same ground, isolated <ul style="list-style-type: none"> <li>+13 To +30 V for logic "1"</li> <li>-30 To +3 V for logic "0"</li> <li>Max. input current: 8 mA</li> </ul> | Fibre-optic ports      | 100BaseFX ports (ST connector), Multimode, 1000BaseSFP-Slot   |
| LED indicator  | PWR1, PWR2, FAULT, MSTR/HEAD, CPLR/TAIL, 10/100M (TP-Port), 100M (Glasfaser-Port), 1000M (Gigabit-Port)   | Number of ports        | 14 * RJ45<br>10/100BaseT(X),<br>2 * ST Multi-mode,<br>2 * combo-ports<br>(10/100/1000BaseT(X) or 100/1000BaseSFP) |
| RJ45 ports     | 10/100BaseT(X) or 10/100/1000BaseT(X), auto negotiation   |                        |   |

### MTBF

|      |             |      |                          |
|------|-------------|------|--------------------------|
| MTBF | 240,000 hrs | MTBF | Telcordia (Bellcore), GB |
|------|-------------|------|--------------------------|

### Order data

|                 |   |                       |               |
|-----------------|---|-----------------------|---------------|
| Number of ports | 14 * RJ45<br>10/100BaseT(X),<br>2 * ST Multi-mode,<br>2 * combo-ports<br>(10/100/1000BaseT(X) or 100/1000BaseSFP) | Operating temperature | 0 °C...+60 °C |
|-----------------|---|-----------------------|---------------|

### Power supply

|                       |   |                             |                |
|-----------------------|---|-----------------------------|----------------|
| Connection type       | 2 removable 6-pin terminal blocks           | Current consumption         | 0.61 A at 24 V |
| Input voltage         | 24 V DC (12 to 45 V DC), 2 redundant inputs | Reverse polarity protection | Available      |
| Turn-on current limit | Existing                                    |                             |                |

### Switch characteristics

|                                |     |                    |        |
|--------------------------------|-----|--------------------|--------|
| IGMP-Groups                    | 256 | MAC table size     | 8 K    |
| Max. number of available VLANs | 64  | Packet buffer size | 2 Mbit |
| Priority queues                | 4   | VLAN-ID max        | 4,094  |
| VLAN-ID min                    | 1   |                    |        |

### Technical data

|                       |               |                   |       |
|-----------------------|---------------|-------------------|-------|
| Housing main material | metal         | Protection degree | IP 30 |
| Type of mounting      | Mounting rail |                   |       |

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### Technology

|              |   |          |   |
|--------------|---|----------|---|
| Flow control | IEEE 802.3x flow control,<br>Back pressure flow control   | MIB      | MIB-II, Ethernet-Like MIB,<br>P-BRIDGE MIB, Q-BRIDGE<br>MIB, Bridge MIB, RSTP<br>MIB, RMON MIB Group 1,<br>2, 3, 9  |
| Protocol     | IGMPv1/v2, GMRP, GVRP,<br>SNMPv1/v2c/v3, DHCP<br>Server/Client, BootP,<br>TFTP, SNTP, SMTP, RARP,<br>RMON, HTTP, HTTPS,<br>Telnet, Syslog, DHCP<br>option 66/67/82, SSH,<br>SNMP Inform, Modbus/<br>TCP, LLDP, IEEE 1588 PTP,<br>IPv6 | Standard | IEEE 802.3 for 10BaseT,<br>IEEE 802.3u for<br>100BaseT(X) und<br>100BaseFX, IEEE 802.3ab<br>for 1000BaseT(X), IEEE<br>802.3z for 1000BaseX,<br>IEEE 802.3x for flow<br>control, IEEE 802.1D<br>for the Spanning Tree<br>protocol, IEEE 802.1w for<br>Rapid STP, IEEE 802.1Q<br>for VLAN tagging, IEEE<br>802.1p for Class of<br>Service, IEEE 802.1X<br>for authentication, IEEE<br>802.3ad for port trunk<br>with LACP |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| eClass 6.2 | 19-17-01-06 | eClass 7.1 | 19-17-01-06 |
|------------|-------------|------------|-------------|

### Approvals

Approvals



ROHS Conform

### Downloads

|                           |  |
|---------------------------|--|
| Manual                    | <a href="#">Manual</a>                               |
| Package insert            | <a href="#">Hardware Installation Guide</a>          |
| Declaration of Conformity | <a href="#">K4200213.pdf</a>                         |
| SNMP MIB file             | <a href="#">SNMP MIB file</a>                        |
| Tools                     | <a href="#">Managed Switch Configuration Utility</a> |
| Firmware                  | <a href="#">Version 2.6.4</a>                        |
|                           | <a href="#">3D Modell</a>                            |