

**Industrial Ethernet  
IE-SW-PL18M-2GC14TX2SC**

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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-2GC14TX2SC
Order No.	<a href="#">1241330000</a>
Version	Network switch, managed, Gigabit Ethernet, Number of ports: 14 * RJ45 10/100BaseT(X), 2 * SC Multi-mode 100FX, 2 * combo-ports (10/100/1000BaseT(X) or 100/1000BaseSFP), IP 30, 0 °C...+60 °C
GTIN (EAN)	4050118029130
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
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### 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 (SC 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 10/100BaseT(X), 2 * SC Multi-mode 100FX, 2 * combo-ports (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
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### Order data

Number of ports	14 * RJ45 10/100BaseT(X), 2 * SC Multi-mode 100FX, 2 * combo-ports (10/100/1000BaseT(X) or 100/1000BaseSFP)	Operating temperature	0 °C...+60 °C
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### 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, Back pressure flow control	MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
Protocol	IGMPv1/v2, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP option 66/67/82, SSH, SNMP Inform, Modbus/ TCP, LLDP, IEEE 1588 PTP, IPv6	Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) und 100BaseFX, IEEE 802.3ab for 1000BaseT(X), IEEE 802.3z for 1000BaseX, IEEE 802.3x for flow control, IEEE 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1Q for VLAN tagging, IEEE 802.1p for Class of Service, IEEE 802.1X for authentication, IEEE 802.3ad for port trunk with LACP

### Classifications

eClass 6.2	19-17-01-06	eClass 7.1	19-17-01-06
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### 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>