

Ethernet-Switch IP67, unmanaged, 10/100 Mbit (700-847-8ES01)

Version 5 for HW 1/2

Application area

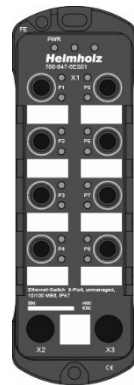
The Helmholz Ethernet Switch IP67 unmanaged is suitable for installation without a control cabinet in IP67 environments and connects up to 8 Ethernet participants with 10 or 100 Mbps via M12 connections. The unmanaged Ethernet switch IP67 is suitable for PROFINET networks. The LLDP (neighborhood detection) and PTCP (time synchronization) functions are handled correctly with the switch in accordance with the PROFINET standard. The unmanaged Ethernet switch thus complies with PROFINET Conformance Class A.

Connections

The Ethernet Switch IP67 has 8 M12 Ethernet ports (X1, P1-P8). The Ethernet Switch IP67 must be supplied with 24 V DC at the wide range input 18...30 V DC (X2). The connection (FE) is for the functional earth. Connect it properly to the reference potential.

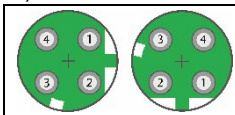
Features

- Store-and-Forward architecture
- 10/100Base-T/TX, Full-/Half-Duplex
- Auto negotiation
- Auto MDI/MDI-X (IEEE 802.3u Auto crossover support)
- QoS-Priority-Queues: 8
- LLDP & PTCP Delay-Traffic blocking (for PROFINET networks)
- PROFINET Conformance Class A
- 16K MAC address lookup table
- 256 Kbyte memory for frame buffering
- 51.2 Gbps high-performance memory bandwidth
- Protection class IP67 for installation without control cabinet

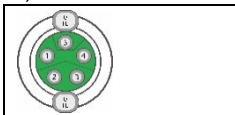


Pin assignments M12

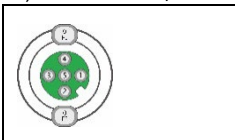
X1, M12 D-coded Ethernet connector

	Pin 1	TX-P
	Pin 2	RX-P
	Pin 3	TX-N
	Pin 4	RX-N

X2, M12 L-coded Power connector

	Pin 1	24VDC
	Pin 2,4	not connected
	Pin 3	GND
	Pin 5	FE

X3, M12 A-coded I/O connector

	Pin 1	No function/for future use
	Pin 2	
	Pin 3	
	Pin 4	
	Pin 5	

LEDs

PWR-LED On =Power supply available
 Off = No voltage or the device is damaged

Ethernet LEDs

Orange (Link/Activity): On = connected Flashing = data transmission
 Green (Speed): Off = 100 Mbps Off = 10 Mbps

Technical data

Order no.	700-847-8ES01
Name	Ethernet-Switch IP67 , unmanaged 8-Port, 10/100 Mbit, IP67
Scope of delivery	Ethernet-Switch IP67, short manual, protection caps
Dimensions (DxWxH)	24 x 62 x 190 mm
Weight	approx. 410g
LAN interface (X1)	
Number	8
Connection	M12 D-Coded
Transmission rate	10/100 Mbps
Type	10BASE-T/100BASE-TX, Full-/Half-Duplex, Auto negotiation, Auto MDI/MDI-X; PROFINET Conformance Class A
Status indicator	
Power indicator	1 LED
Ethernet-Status	16 LEDs
Power supply (X2)	
Voltage supply	24 V DC (18...30 V DC)
Connection	M12 L-Coded
Current draw	max. 75 mA bei 24 V DC
Power loss	max. 1,8 W
Ambient conditions	
Ambient temperature	-40 °C ... +75 °C
Transport and storage temp.	-40 °C ... +85 °C
Relative air humidity	95% r. H. without condensation
Protection degree	IP67
Mounting position	As desired
Approvals	CE

Note:

The contents of this document have been checked by us for matching with the hardware and software described. However, we assume no liability for any existing differences, as these cannot be fully ruled out. The information in this document is, however, updated on a regular basis. When using your purchased products, please make sure to use the latest version of the document, which can be viewed and downloaded in the Internet at www.helmholz.de.