

Ethernet Switch 5-port, unmanaged, 10/100 Mbps (700-840-5ES01)

Version 11 for HW-Version 20

Application area

The Helmholz Ethernet Switch 5-port unmanaged is suitable for installation on a DIN rail and connects up to 5 Ethernet participants with 10 or 100 Mbps. The unmanaged Ethernet switch is suitable for PROFINET networks. The LLPD (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 5-port has 5 RJ45 connections. The Ethernet Switch 5-port must be supplied with 24 V DC at the 18 - 30 wide range input via the provided connector plug. The terminal (FE, ⚡) is for the functional ground. Connect this correctly with the reference potential.

Features

- Store-and-Forward architecture
- 10Base-T/100Base-TX
- Full-/Half-Duplex
- Autonegotiation
- Auto MDI/MDI-X (IEEE 802.3u Auto crossover support)
- LLDP & PTCP Delay-Traffic blocking (for PROFINET networks)
- PROFINET Conformance Class A
- QoS-Priority Queues: 2 per port
- 1K MAC address lookup table
- 448K bits packet buffer memory
- Max. forwarding packet length 1552 bytes



LEDs

PWR Led

On = Power supply present

Off = No voltage or the device is defective

RJ45 LEDs

Orange (Link/Activity):

On = Connected

Blinks = Data transmission

Green (Speed):

On = 100 Mbps

Off = 10 Mbps



Attention: If the device is used in a manner not specified by the manufacturer, the protection provided by the device may be affected. Pay special attention to the correct contact during cable installation. If you have problems, always read the latest documentation first, which can be found on the Internet at www.helmholz.com. Connected circuits shall meet the requirements of Limited energy circuits acc. UL61010-1, section 9.4 or LPS in conformance with UL60950-1 or Class 2 in accordance with UL1310 or UL1585.

Technical data

Order no.	700-840-SE501
Name	Ethernet Switch 5-Port, unmanaged, 10/100 Mbps for DIN rail
Scope of delivery	Ethernet 5-port switch with power supply plug, short manual
Dimensions (DxWxH)	32 x 48 x 80 mm
Weight	approx. 110g
LAN interface	
Number	5
Connection	RJ45
Transmission rate	10/100 Mbps
Type	10/100Base-T/TX, Full/Half-Duplex, Autonegotiation, Auto MDI/MDI-X; IEEE Auto crossover; LLDP & PTP Delay-Traffic blocking (for PROFINET networks)
Status indicator	
Power display	1 LED
Ethernet status	10 LEDs
Power supply	
Voltage supply	24 V DC (18...30 V DC)
Current draw	max. 60 mA with 24 V DC
Power loss	1,5 W
Ambient conditions	
Ambient temperature	-25 °C ... +75 °C
Transport and storage temp.	-40 °C ... +85 °C
Relative air humidity	95 % r H without condensation
Protection rating	IP20
Approvals	CE
UL	
Voltage supply	DC 24 V (18 ... 30 VDC, SELV and limited energy circuit)
Pollution degree	2
Altitude	Up to 2000 m
Temperature cable rating	87 °C

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.