

## Ethernet Switch 5-port, unmanaged, 10/100 Mbps (700-840-5E501)

Version 10 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 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 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](http://www.helmholz.com). Connected circuits shall meet the requirements of Limited energy circuits acc. UL61010-1.*

## Technical data

<b>Order no.</b>	<b>700-840-5ES01</b>
Name	Ethernet Switch 5-Port, unmanaged, 10/100 Mbps for DIN rail
General information	
- 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
- Type	10/100Base-T/TX, Full/Half-Duplex, Autonegotiation, Auto MDI/MDI-X; IEEE Auto crossover; LLDP & PTCP Delay-Traffic blocking (for PROFINET networks)
- Connection	RJ45
- Transmission rate	10/100 Mbps
Status indicator	1 LEDs power display, 10 LEDs Ethernet status
Voltage supply	24 V DC (18...30 V DC)
Current draw	max. 60 mA with 24 V DC
Power loss	1,5 W
Environment requirements	
- Ambient temperature	-25 °C ... +75 °C
- Transport and storage temperature	-40 °C ... +85 °C
- Relative air humidity	95 % r H without condensation
- Pollution degree	2
- Protection rating	IP20
- Certifications	CE
UL	UL 61010-1/ UL 61010-2-201
- 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](http://www.helmholz.de).*