

Ethernet Switch
IP 30



Advantages

- Small housing
- Robust metal housing
- Adapted for mounting onto top hat mounting rail according to EN 60715
- Extended temperature range
- PROFINET compatible

General

The Ethernet Switch ESC TP06/FX02-SC has been designed for use in industrial environments and supports Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s). The Ethernet Switch can support linear, star and mixed topologies.

Up to 8 Ethernet devices can be connected: 6 to RJ45 and 2 to SC fibre optic ports (100 Base-FX; Full Duplex, SC connectors).

The Ethernet Switch has quick and simple network diagnostics via integrated LEDs.

Identification	Part number	Drawing	Dimensions in mm
<p>ESC TP06/FX02-SC</p> <p>Ethernet Switch with 6 ports RJ Industrial 2 ports F.O.</p>	<p>20 76 108 3100</p>		

All data given is in line with the actual state of art and therefore not binding.
HARTING reserves the right to modify designs without giving the relevant reasons.

Technical characteristics

Features

- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward switching mode

Power Supply

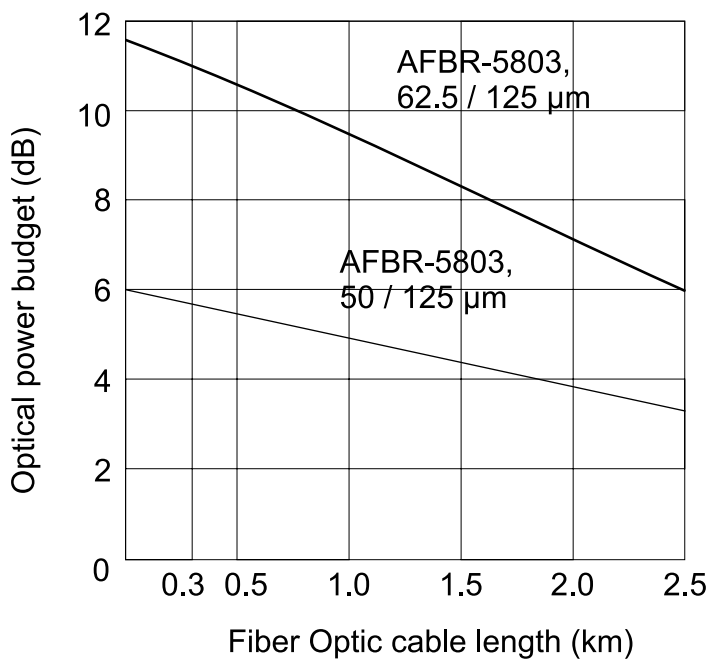
Power supply	24 V DC
Permissible range	12 V to 48 V
Current consumption	max. 250 mA (at 24 V DC)
Terminating Power supply	2-pole pluggable contact
Diagnostics (via LED)	Power supply

Ethernet Interface RJ45

Number of ports	• 6x 10/100Base-TX, unmanaged
Cable types acc. to IEEE 802.3	• Shielded Twisted Pair (STP) or Unshielded Twisted Pair (UTP), Category 5
Data rate	• 10/100 Mbit/s
Maximum cable length	• 100 m (Twisted Pair; with cable Category 5 according to EN 50 173-1)
Terminating method	• RJ45 (Twisted Pair)
Diagnostics (via LED)	• Status Link - green • Data transfer (Act) - green flashed • Data transfer rate (Speed) - 100 Mbit/s: Yellow 10 Mbit/s: OFF
Topology	Line, Star or mixed

Ethernet Interface - Fibre Optic

Number of ports	2x 100 Base-FX, unmanaged
Cable types acc. to IEEE 802.3	Multimode-fibre, 1300 nm; 50 / 125 µm or 62.5 / 125 µm
Data rate	100 Mbit/s
Maximum cable length	2000 m
Terminating method	SC-D female
Diagnostics (LED)	<ul style="list-style-type: none"> • Status Link - green • Data transfer (Act) - green flashed
Wellenlänge	1300 nm
Transceiver power TX max. (dynamic)	<ul style="list-style-type: none"> • -14 dBm (50 / 125 µm) • -14 dBm (62,5 / 125 µm)
Transceiver power TX min.	<ul style="list-style-type: none"> • -23,5 dBm (50 / 125 µm) • -20 dBm (62,5 / 125 µm)
Receive power RX typical (dynamic)	<ul style="list-style-type: none"> • -33,9 dBm (window) • -35,2 dBm (centre)
Receive power RX max. (dynamic)	-14 dBm
Signal detection (dynamic)	-33 dBm
Topology	Line, Star or mixed



Design features

Material of housing	Steel panel (grey painted)
Dimensions (W x H x D)	23 x 130 x 100 mm (without F.O.)
Weight	approx. 0.5 kg
Degree of protection acc. to DIN 60 529	IP 30

Mechanical solidness

Shock	according to IEC 60 068-2-27 <ul style="list-style-type: none">• 15 g• 11 ms duration• Shock form: Half sinus
Vibration	according EN 60 068-2-6
Rail-standard	according EN 50 155, Class 1

Environmental conditions

Operating temperature	-10 °C to +70 °C
Storage temperature	-40 °C to +85 °C
Relative humidity	30 % to 95 % (non-condensing)

Approvals

cUL	(in preparation)
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EMC standards

Interference immunity ESD	IEC 61 000-4-2
Interference immunity, HF radiated	IEC 61 000-4-3
Interference immunity, Burst	IEC 61 000-4-4
Interference immunity, Surge	IEC 61 000-4-5
Interference immunity	IEC 61 000-4-6
Emitted radiation	EN 55 011, Class A
Rail-standard	EN 50 121-3-2