



eCon 3000

Ethernet Switch HARTING eCon 3000

Ethernet switches, unmanaged,
for installation in control cabinets

General Description

The Fast Ethernet switches of the product family HARTING eCon 3000 are suitable for industrial applications and support both Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s). The product family enables the connection of up to 10 network devices (according to type) over shielded Twisted Pair cables and fibre-optic cables (Multi- and Singlemode).

The eCon 3000 Ethernet switch product family, with its integrated LEDs on each port, supports fast and easy network diagnosis.

The eCon Ethernet switch operates as an unmanaged switch in Store and Forward Switching Mode and supports Auto-crossing, Auto-negotiation and Auto-polarity.

Features

- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward Switching Mode

Advantages

- Small housing
- Robust metal housing
- Adapted for mounting onto top-hat mounting rail 35 mm according to EN 60 715
- RoHS compliant

Application fields

- Industrial automation
- Automotive industry
- Wind power
- Power distribution systems

Technical characteristics

Ethernet interface RJ45

Number of ports	6x / 8x 10/100Base-TX
Cable types according to IEEE 802.3	Shielded Twisted Pair (STP) or Unshielded Twisted Pair (UTP), Category 5
Data rate	10 Mbit/s or 100 Mbit/s (RJ45)
Maximum cable length	100 m (Twisted Pair; with Category 5 cable acc. to DIN EN 50 173-1)
Terminating method	RJ45 (Twisted Pair)
Diagnostics (via LED)	<ul style="list-style-type: none"> • Status Link – Green • Data transfer (Act) – Green flashing • Data transfer rate (Speed) – 100 Mbit/s: Yellow / 10 Mbit/s: OFF
Topology	Line, Star or mixed

Power supply

Input voltage	24 V DC (12 to 30 V DC)
Terminating method	3-pole pluggable screw contact (24 V; GND; PE)
Diagnostics (via LED)	Power supply

Design features

Housing material	Metal (powder coated)
Dimensions (W x H x D)	23 x 130 x 100 mm (without connectors)
Degree of protection acc. to DIN 60 529	IP 30
Mounting	35 mm top-hat rail acc. to EN 60 715
Weight	approx. 0.6 kg

Environmental conditions

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

Technical characteristics - F.O. termination

Ethernet interface – F.O.

Number of ports	1x / 2x 100Base-FX
Cable types according to IEEE 802.3	<ul style="list-style-type: none"> • Multimode fibre, 1300 nm; 50 / 125 µm or 62.5 / 125 µm • Singlemode fibre, 1300 nm; 9 µm
Data rate	100 Mbit/s
Maximum cable length	<ul style="list-style-type: none"> • 2000 m (Multimode) • 15 km (Singlemode)
Terminating method	SC-D female / ST female
Diagnostics (via LED)	<ul style="list-style-type: none"> • Status Link – Green • Data transfer (Act) – Green flashing
Wave length	1300 nm
Transceive power TX max. (dynamic)	<ul style="list-style-type: none"> • -14 dBm (50 / 125 µm) • -14 dBm (62.5 / 125 µm)
Transmission 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

