



## Ethernet Switch HARTING eCon 6000

In-between Ethernet switches, unmanaged,  
for use in harsh industrial environments

eCon 6000

### General Description

The In-Between Fast Ethernet switches of the product family HARTING eCon 6000 are an integrated solution, which unites Ethernet switch and panel feed-through into one device. The compact housing is mounted directly onto the outside panel of a control cabinet or terminal box. Up to six IP 20 ports are available within the cabinet, according to switch type, for the connection of Ethernet clients. For connections outside the control cabinet, the eCon 6000 offers two IP 65 / IP 67 Ethernet ports.

The Ethernet switch supports both line- and star-topology networks, as well as mixed forms, which beginning at a switch cabinet, link further Ethernet clients directly into a machine or plant. The LEDs integrated into the switch support network diagnostics even with the switch cabinet closed. Additionally, fault signals can be sent via the alarm contact directly to higher level controllers or to a control room.

### Features

- Ethernet switch acc. to IEEE 802.3
- Store and Forward Switching Mode, non-blocking
- 5 / 8 ports unmanaged
- Auto-crossing, Auto-negotiation, Auto-polarity
- Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s)
- Diagnostic LEDs (Link status, Data, Power, Error)
- Up to 4 levels of priority
- Alarm signalling contact
- Standard or hybrid cabling

### Advantages

- High degree of protection IP 65 / IP 67
- Robust metal housing
- Can be used directly in industrial environments
- Active panel feed-through
- EMC, temperature range and mechanical stability meet the highest demands
- PROFINET compatible

### Application fields

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

Technical characteristics

**Ethernet interface**

Number of ports	5 (2 x IP 65 / IP 67 – 3 x IP 20) 8 (2 x IP 65 / IP 67 – 6 x IP 20)
Cable types	Shielded Twisted Pair (STP) or Unshielded Twisted Pair (UTP), Category 5
Data rate	10 Mbit/s or 100 Mbit/s / Auto-crossing, Auto-negotiation, Auto-polarity
Maximum cable length	100 m (with Category 5 cable acc. to EN 50 173)
Termination device-side	On the outside of control cabinet (female): 2 x M12, D-coding 2 x Han® 3 A RJ45 2 x Han® 3 A Hybrid  On the inside of control cabinet: 3x / 6x RJ45
Diagnostics (via LED)	<ul style="list-style-type: none"> <li>• Status Link – Green</li> <li>• Data transfer (Act) – Yellow flashing</li> </ul>
Topology	Line, Star or mixed

**Power supply**

Input voltage	24 V DC (18 to 30 V DC)
Termination device-side	On the inside of control cabinet: 5-pole screw terminal, pluggable for redundant power supply  additional 6-pole screw terminal, plug-in, for Hybrid supply (eCon 6080-HA only)
Diagnostics (via LED)	Power supply

**Alarm signalling contact**

Diagnostics (via LED)	Change-over contact, potential-free, 24 V DC / 0.5 A (on the inside of control cabinet) 3-pole pluggable screw contact  Error – Red
-----------------------	--

**Design features**

Housing material	Aluminium die-cast
Dimensions (W x H x D)	105 x 40 x 105 mm (without connectors)
Degree of protection acc. to DIN 60 529	IP 65 / IP 67      On the outside of control cabinet connector IP 20                On the inside of control cabinet
Mounting	Directly onto control cabinets or terminal boxes
Weight	approx. 0.8 kg

**Environmental conditions**

Operating temperature	– 40 °C to + 70 °C 0 °C to + 55 °C (Hybrid)
Storage temperature	– 40 °C to + 85 °C
Relative humidity	30 % to 95 % (non-condensing)