HARTING mCon 4000 – Introduction and features

Ethernet Switch
HARTING mCon 4000

Ethernet Switches, managed,
for flat wall mounting

General Description

The Fast Ethernet Switches of the product family HARTING mCon 4000 are recommended for use in the widest range of industrial applications and support Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s). The product family enables the connection of up to 8 network devices over Twisted Pair cables.

Mechanical stability and temperature range meet the highest demands. The robust M12 interface shows its adantages especially in applications at risk of vibrations.

The Ethernet Switches support both SNMP and an easy Web interface for management functions.

Features

- Ethernet Switch according to IEEE 802.3
- Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s)
- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward Switching Mode, non blocking
- Diagnostic LEDs (Link status, Data, Power)
- Mounting onto wall,
  optionally onto top-hat mounting rail

Advantages

- Robust metal housing and flat housing style
- EMC, temperature range and mechanical stability meet the highest demands
- Wide range for power supply input
- Wide range for type test according to EN 50 155 and EN 50 121-3-2

Application fields

- Railway applications
- Industrial automation
- Automotive industry
- Wind power

Technical characteristics

Ethernet interface	
Number of ports	8x 10/100Base-T(X)
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
Maximum cable length	100 m (Twisted Pair; with Category 5 cable acc. to DIN EN 50 173-1)
Termination	M12. D-coding
Diagnostics (via LED)	• Status Link – ON • Data transfer (Act) – Green flashing • Data transfer rate (Speed) – 100 Mbit/s: Yellow / 10 Mbit/s: Green • Error – Red
Topology	Line, Ring, Star or mixed
Power supply	
Input voltage	24 / 48 V DC
Termination	M12 A-coding, male, for redundant power supply
Diagnostics (via LED)	Power supply
Design features	
Housing material	Metal (powder coated)
Dimensions (W x H x D)	130 x 166 x 50 mm
Degree of protection acc. to DIN 60 529	IP 40
Mounting	Wall mounting, flat
Weight	approx. 0.85 kg
Environmental conditions	
Operating temperature	–40 °C … +70 °C
Storage temperature	–40 °C … +85 °C
Relative humidity	10 % … 95 % (non-condensing)

HARTING mCon 4000

Ethernet Switch
HARTING mCon 4080-B1V
8-port Ethernet Switch for flat installation

Managed	IP 40	PROFINET compatible X	EtherNet/IP compatible X

Number of ports, Copper / Termination	8x 10/100Base-T(X) / M12 D-coding
Input voltage / Termination	24 / 48 V DC / M12 A-coding, male, for redundant power supply
Permissible range (min/max)	12 V … 60 V DC
Input current	approx. 165 mA (at 24 V DC)
Housing material	Metal (powder coated)
Dimensions (W x H x D)	130 x 166 x 50 mm
Weight	approx. 0.85 kg
Operating temperature	–40 °C … +70 °C
Approvals	cUL (in preparation)
Management	fully managed via Web interface and SNMP Functions see page A·3 3

Identification	Part number	Drawing	Dimensions in mm
HARTING mCon 4080-B1V Ethernet Switch, managed, with 8 ports M12 D-coding for wall mounting	20 77 208 4001