



Ethernet Switch
Ha-VIS eCon 4000
 Ethernet Switches, unmanaged,
 for flat wall mounting

General Description

Features

The Fast Ethernet Switches of the product family Ha-VIS eCon 4000 are recommended for use in the widest range of industrial applications and support both 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.

The robust M12 interface shows its advantages especially in applications at risk of vibrations.

The Ha-VIS eCon 4000 Ethernet Switch product family, with its integrated LEDs, supports fast and easy network diagnosis. The Ha-VIS eCon Ethernet Switch operates as an Unmanaged Switch in Store and Forward Switching Mode and supports Auto-crossing, Auto-negotiation and Auto-polarity.

- 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

Application fields

- 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

- 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) Link (per port)	<ul style="list-style-type: none"> • Status Link – ON • Data transfer (Act) – flashing • Data transfer rate (Speed) – 100 Mbit/s: Yellow / 10 Mbit/s: Green
PoE (per port)	<ul style="list-style-type: none"> • no PoE device – OFF • PoE device connected – Green • PoE device with failure – Red
Topology	Line, Star or mixed

Power supply

Input voltage Ha-VIS eCon 4080-BPoE1 mode PoE	48 V DC (46 ... 55 V DC)						
mode non PoE	24 / 48 V DC (12 ... 55 V DC)						
Termination	M12 A-coding, male, for redundant power supply						
Diagnostics (via LED)	<table> <tr> <td>Pwr X9 (switch)</td> <td>Pwr PoE (mode PoE)</td> </tr> <tr> <td>Power supply – Green</td> <td>> 46 V DC – Green</td> </tr> <tr> <td></td> <td>< 46 V DC – Red</td> </tr> </table>	Pwr X9 (switch)	Pwr PoE (mode PoE)	Power supply – Green	> 46 V DC – Green		< 46 V DC – Red
Pwr X9 (switch)	Pwr PoE (mode PoE)						
Power supply – Green	> 46 V DC – Green						
	< 46 V DC – Red						

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 / IP 30 (Ha-VIS eCon 4080-BPoE1 only)
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)



Ethernet Switch
Ha-VIS eCon 4080-BPoE1
 8-port PoE Ethernet Switch for flat installation

Unmanaged	IP 30	PROFINET compatible <input checked="" type="checkbox"/>	EtherNet/IP compatible <input type="checkbox"/>
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Number of ports, Copper / Termination 8x 10/100Base-T(X) / M12 D-coding / PoE supports 8 ports

Mode PoE

Input voltage / Termination 48 V DC / M12 A-coding, male
 Permissible range (min/max) 46 V ... 55 V DC
 Input current max. 3.0 A (at 48 V DC, load 350 mA per port)

Mode Non-PoE

Input voltage / Termination 24 / 48 V DC / M12 A-coding, male, for redundant power supply
 Permissible range (min/max) 12 V ... 55 V DC
 Input current approx. 150 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)

Identification	Part number	Drawing	Dimensions in mm
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Ha-VIS eCon 4080-BPoE1
 PoE Ethernet Switch
 with 8 ports M12 D-coding
 for wall mounting

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