



Ethernet Switch Ha-VIS FTS 3100-A

10-port Ethernet Switch with Fast Track Switching Technology managed

Advantages

- Identification, acceleration and preference for automation frames
- Deterministic data transfer for selected profiles
- Managed Ethernet Switch acc. to IEEE 802.3
- Fast Track Switching Mode, Store and Forward Switching mode
- Robust metal housing, RoHS compliant

General Description

The Fast Ethernet Switches of the product family Ha-VIS FTS 3000 can identify automation profiles (e.g. PROFINET, EtherNet/IP, Modbus TCP and customized profiles), accelerate their data transmission and prefer them. They are suitable for industrial applications. The Ha-VIS FTS 3100-A enables the connection of up to 10 network devices over shielded Twisted Pair. It supports Ethernet (10 Mbit/s) and Fast Ethernet (100 Mbit/s). The Ethernet Switch works as a managed switch and can work in Fast Track Switching Mode and in Store and Forward mode. It supports Auto-crossing, Auto-negotiation and Auto-polarity.

Identification

Part number

Drawing

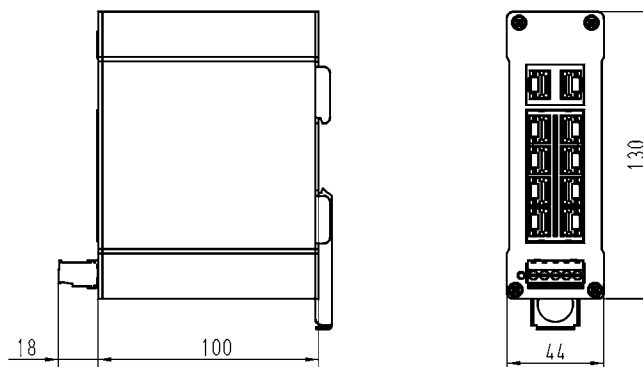
Dimensions in mm

Ha-VIS FTS 3100-A

Ethernet Switch with
10 ports RJ45

for top-hat mounting rail

20 78 110 4000



All data represent the current state of development at the time of print and are therefore non-binding.

HARTING reserves the right to modify designs without prior notice.

Technical characteristics

Features

- Auto-crossing
- Auto-negotiation
- Auto-polarity
- Store and Forward Switching mode
- Fast Track Switching mode

Ethernet Interface

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

Basic functions

Port settings	<ul style="list-style-type: none"> • 10/100 Mbit/s • Full/Half Duplex • Port enable/disable • Port mirroring • Flow Control • Industrial Profile (PROFINET, EtherNet/IP, Modbus TCP, customized) • NRT Bandwidth Control
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Management functions

- STP, RSTP
- IGMP Snooping with support for querier
- Port Based VLANs
- Alarm via email, SNMP traps
- PROFINET diagnosis
- DHCP Option 82
- Plugable Memory Card

Power Supply

Nominal input voltage range	12 V ... 48 V DC
Permissible range	9.6 V ... 60 V
Current consumption	270 mA (at 24 V DC)
Diagnostics (via LED)	• Power supply in permissible range: Green • Undervoltage: Red
Terminating Power supply	5-pole pluggable screw contact, for redundant power supply

Design features

Material of housing	Aluminium, anodized
Dimensions (W x H x D)	44 x 130 x 100 mm (without connectors)
Degree of protection acc. to DIN 60 529	IP 30
Mounting	<ul style="list-style-type: none"> • 35 mm top-hat rail acc. to EN 60 715 • Panel mounting, vertical assembly
Weight	approx. 0.5 kg

Environmental conditions

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