



Ha-VIS eCon 3160GB-A



Industrial Ethernet Switches, Unmanaged, Full Gigabit Ethernet, Nominal voltage: 24V DC, 48V DC, Total number of ports: 16, Operating temperature: 0 ... +55 °C

Part number: **24 03 416 0010**

Technical data

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Identification

Series	Ha-VIS eCon 3000
Element	Industrial Ethernet Switches
Specification	Unmanaged
Type of Ethernet	Full Gigabit Ethernet

Version

Total number of ports	16
Fixing	35 mm DIN rail acc. to EN 60715
Switching technology	Store and Forward
Frame size	8 Kilobyte
MAC table size	8k Entries

Packet buffer size	1 Megabit
Non blocking	Yes
Quality of service	Yes
Energie Efficient Ethernet	Yes
Flow control	Off
Signal contact	No
Pack contents	Operating instructions
	Pluggable screw contact for power supply

Connection data

Nominal voltage	48 V DC
	24 V DC
Permissible voltage	9 ... 60 V DC
Surge protection	Yes
Supply circuit	SELV (Circuit Breaker 10 A)
Overcurrent protection	At input
Termination method	Pluggable screw contact
Number of contacts	3
Conductor cross-section	0.08 ... 2.5 mm ²
Conductor cross-section	AWG 28 ... AWG 12
Pinout	+ / - / FE
Reverse polarity proof	Yes

Technical characteristics

Operating temperature	0 ... +55 °C
Storage temperature	-40 ... +85 °C
Relative humidity	0 ... 95 % Non-condensing (storage/transport)
	0 ... 95 % Non-condensing (operation)
Air pressure	≥795 hPa
Degree of protection acc. to IEC 60529	IP30 when mated
MTBF	≈ 1360,000 h

Material properties

Material (hood/housing)	Aluminium (anodised)
	Steel sheet (powder-coated)
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	No
REACH ANNEX XIV substances	No
REACH SVHC substances	No

Specifications and approvals

Specifications	<p>EN 61000-4-6 conducted disturbances</p> <hr/> <p>EN 55022 Radio disturbance characteristics</p> <hr/> <p>EN 61000-4-5 Surge voltages</p> <hr/> <p>EN 61000-4-3 Electromagnetic field</p> <hr/> <p>EN 61000-4-2 Electrostatic discharge (ESD)</p> <hr/> <p>EN 61000-4-4 Rapid transients (burst)</p>
Approvals	DNV GL
UL / CSA	<p>UL 508 NRAQ.E253944</p> <hr/> <p>CSA-C22.2 No. 142 NRAQ7.E253944</p>
PROFINET	Yes
EtherNet/IP	Yes
FCC	Yes

Commercial data

Packaging size	1
Net weight	842.5 g
Country of origin	Germany
European customs tariff number	85176200
eCl@ss	19170130 Network switch (general application)

HARTING contact: HARTING Inc. of N.America Bowes Road 1370 60123-5538 Elgin United States

HARTING support: 866-278-0306

✉ E-mail address

(For questions regarding products, orders and user accounts)

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