

2701511

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Axioline E, Digital I/O device, PROFINET, M12 connector, Digital inputs: 16, 24 V DC, connection technology: 4-conductor, Digital outputs: 16, 24 V DC, connection technology: 3-conductor, Plastic housing, degree of protection: IP65/IP67

Product description

The Axioline E device is designed for use within a PROFINET network. It is used to acquire and output digital signals.

Your advantages

- Connection to PROFINET network using M12 connectors (D-coded)
- · Transmission speed of 100 Mbps
- · Connection of digital sensors and actuators using M12connectors (A-coded)
- · Diagnostic and status indicators
- · Short-circuit and overload protection of the sensor supply
- IP65/IP67 degree of protection

Commercial data

Item number	2701511
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7DA
GTIN	4046356763622
Weight per piece (including packing)	556.46 g
Weight per piece (excluding packing)	548.5 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	212 185 198,5
Width	60 mm
Height	185 mm
Depth	30.5 mm
Drill hole spacing	198.5 mm
Note on dimensions	The height is 212 mm including fixing clips.

Notes

Note on application

Note on application	Only for industrial use

Material specifications

Housing material	Pocan®
Color	anthracite

Interfaces

PROFINET

Number of interfaces	2
Connection method	M12 connector
Note on the connection method	D-coded
Number of positions	4
Transmission speed	100 Mbps (with auto negotiation)

PROFINET

THO ME	
Equipment type	PROFINET-Device
System-specific protocols	PROFINET protocols LLDP
	PROFINET protocols MRP client
	PROFINET protocols DCP
	PROFINET protocols DCE/RPC
Protocols supported	SNMP v1
	HTTP
	TFTP
	FTP

Input data



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Digital:

Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3
Number of inputs	16
Cable length	max. 30 m (to the sensor)
Connection method	M12 connector double occupancy
Connection technology	4-conductor
Input voltage range "0" signal	0 V DC 5 V DC
Input voltage range "1" signal	11 V DC 30 V DC
Nominal input voltage U _{IN}	24 V DC
Nominal input current at U _{IN}	typ. 3 mA
Sensor current per channel	typ. 75 mA (from U _S)
Total sensor current	max. 1.2 A (per device)
Input filter time	< 1000 µs
Protective circuit	Overload protection, short-circuit protection of sensor supply

Output data

Digital:

Output name	Digital outputs
Connection method	M12 connector double occupancy
Connection technology	3-conductor
Number of outputs	16
Protective circuit	Overload protection, short-circuit protection of outputs; yes
Output voltage	24 V DC
Limitation of the voltage induced on circuit interruption	-28 V17 V
Maximum output current per channel	500 mA
Nominal output voltage	24 V DC (from voltage U _S)
Output voltage range	18 V DC 31.2 V DC
Output voltage when switched off	max. 1 V
Output current when switched off	max. 20 μA
Nominal load, inductive	12 VA (1.2 H, 48 Ω , with nominal voltage)
Nominal load, ohmic	12 W (48 Ω , with nominal voltage)
Switching frequency	max. 5500 per second (with at least 50 mA load current)
	max. 1 per second (with inductive load)
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Signal delay	max. 150 μs (when switched on)
	max. 200 μs (when switched off)
Overcurrent shut-down	min. 0.7 A

Product properties

Product type	I/O component
Product family	Axioline E



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Туре	Stand-alone Stand-alone
Special properties	Plastic housing
ctrical properties	
Potentials	
Voltage supply U _S	24 V DC
Power supply at U _S	max. 4 A
Current consumption from U _S	typ. 8 mA
	max. 1.2 A
Supply: Module electronics, sensors, and actuators	
Designation	Module electronics, sensors and actuators (U_S)
Connection method	M12 connector, T-coded
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V DC 31.2 V DC (including all tolerances, including ripple
Current consumption	typ. 190 mA ±15 % (at 24 V DC)
	max. 12 A
Supply: Actuators	
Designation	Supply of actuators (U _A) for additional devices
Connection method	M12 connector, T-coded
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V DC 31.2 V DC (including all tolerances, including ripple
Current consumption	typ. 3 mA ±15 % (at 24 V DC)
	max. 12 A
Electrical isolation/isolation of the voltage ranges	
Test voltage: 24 V supply (communications power/sensor supply,	500 V AC, 50 Hz, 1 min
digital inputs/outputs)/bus connection (Ethernet 1)	
Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/bus connection (Ethernet 2)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/FE	500 V AC, 50 Hz, 1 min
Test voltage: Bus connection (Ethernet 1)/FE	500 V AC, 50 Hz, 1 min
Test voltage: Bus connection (Ethernet 2)/FE	500 V AC, 50 Hz, 1 min
Test voltage: Bus connection (Ethernet 1)/bus connection (Ethernet 2)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (actuator supply)/24 V supply (communications power and sensor supply, digital inputs/outputs)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V supply (actuator supply)/bus connection	500 V AC, 50 Hz, 1 min
(Ethernet 1)	
	500 V AC, 50 Hz, 1 min



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Connection data

Connection method	M12 connector

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C 85 °C
Permissible humidity (operation)	5 % 95 %
Permissible humidity (storage/transport)	5 % 95 %

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

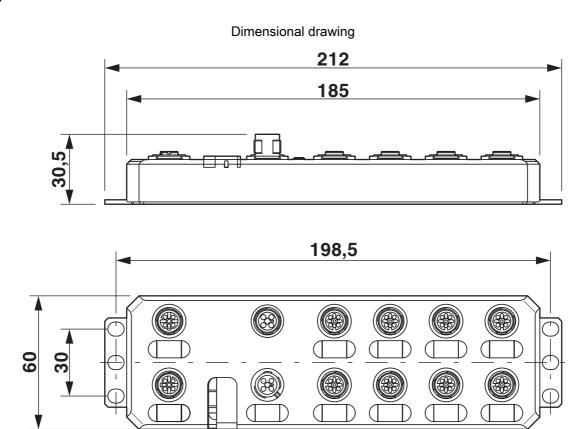
Mounting type	Screw mounting
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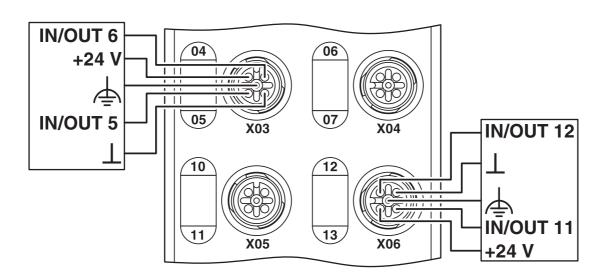
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Drawings



Connection diagram





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Approvals

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Approval ID: Z12258



cULus Listed Approval ID: E140324



cULus Listed Approval ID: E199827



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Classifications

ECLASS

	ECLASS-13.0	27242604		
	ECLASS-15.0	27242604		
ETIM				
	ETIM 9.0	EC001599		
UN	ISPSC			

UNSPSC 21.0 32151600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	798a4cbe-dda5-4a9f-8d72-c6be49083bc3

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