

2701512

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Axioline E, Digital I/O device, PROFINET, M12 fast connection technology, Digital inputs: 8, 24 V DC, connection technology: 4-conductor, Digital outputs: 4, 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	2701512
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7DA
Catalog page	Page 175 (C-6-2019)
GTIN	4046356763639
Weight per piece (including packing)	557.1 g
Weight per piece (excluding packing)	550 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	212 185 196,5
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

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

Material specifications

Housing material	Pocan [®]
Color	anthracite

Interfaces

PROFINET

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

PROFINET

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



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Input data

Digital

Digital	
Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3
Number of inputs	8
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 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. 0.6 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 (A-coded)
Connection technology	3-conductor
Number of outputs	4
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	2 A
Nominal output voltage	24 V DC (from voltage U _A)
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	48 VA (1.2 H, 48 Ω , with nominal voltage)
Nominal load, ohmic	48 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. 2.2 A
Output name	Digital outputs
Connection method	M12 connector (A-coded)



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Connection technology	3-conductor
Number of outputs	4
Protective circuit	Overload protection, short-circuit protection of outputs; yes
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Product properties

Product type	I/O component
Product family	Axioline E
Туре	Stand-Alone
Special properties	Plastic housing

Electrical 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 and sensors

Designation	Supply of module electronics and sensors (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. 140 mA ±15 % (at 24 V DC)
	max. 12 A

Supply: Actuators

Designation	Supply of actuators (U _A)
Connection method	M12 connector (T-coded)



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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. 30 mA ±15 % (at 24 V DC)
	max. 12 A
lectrical isolation/isolation of the voltage ranges	
Test voltage: 24 V supply (communications power and sensor supply, digital inputs)/bus connection (Ethernet 1)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (communications power and sensor supply, digital inputs)/bus connection (Ethernet 2)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (communications power and sensor supply, digital inputs)/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, digital outputs)/24 V supply (communications power and sensor supply, digital inputs)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (actuator supply, digital outputs)/bus connection (Ethernet 1)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (actuator supply, digital outputs)/bus connection (Ethernet 2)	500 V AC, 50 Hz, 1 min.
Test voltage: 24 V supply (actuator supply, digital outputs)/FE	500 V AC, 50 Hz, 1 min.
nection data	
Connection method	M12 connector
rironmental and real-life conditions	
Ambient temperature (operation)	-25 °C 60 °C
Degree of protection	IP65/IP67
Degree of protection Air pressure (operation)	IP65/IP67 70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (operation) Air pressure (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level)
Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C
Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport)	70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C 5 % 95 %
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Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport) Indards and regulations Protection class	70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C 5 % 95 % 5 % 95 %
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