

2701515

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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: 8, 24 V DC, connection technology: 3-conductor, Metal 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. The device is designed for use in systems manufacturing. The device is suitable for use without a control cabinet in harsh industrial ambient conditions. The Axioline E device can be used on tool platforms, directly on welding robots or in conveying technology, for example.

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	2701515
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7PA
Catalog page	Page 175 (C-6-2019)
GTIN	4046356763653
Weight per piece (including packing)	720.5 g
Weight per piece (excluding packing)	720.5 g
Customs tariff number	85176200
Country of origin	DE



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Technical data

Dimensions

Dimensional drawing	194.5 - 185 - 185
Width	60 mm
Height	185 mm
Depth	38 mm
Drill hole spacing	198.5 mm
Note on dimensions	The height is 194.5 mm including the mounting panel. With fixing clips pulled out, the height is 212 mm. The depth is 38 mm including the mounting panel (30.5 mm without the mounting panel).

Material specifications

Housing material	Zinc die-cast
riodonig material	2 0 0

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

Input data

Digital

Input name	Digital inputs
Description of the input	EN 61131-2 types 1 and 3



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Number of inputs	8
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, double occupancy
Connection technology	3-conductor
Number of outputs	8
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 _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	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
Output name	Digital outputs
Connection method	M12 connector, double occupancy
Connection technology	3-conductor
Number of outputs	8
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



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Р

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

Supply of module electronics and sensors (U _S)
M12 connector (T-coded)
4
24 V DC
18 V DC 31.2 V DC (including all tolerances, including ripple)
typ. 190 mA ±15 % (at 24 V DC)
max. 12 A

Supply: Actuators

Designation	Supply of actuators (U _A)
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. 30 mA ±15 % (at 24 V DC)
	max. 12 A



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Electrical 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.

Connection data

Connection method	M12 connector
Connection method	WITE CONTINUOUS

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)
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Mounting

Mounting type Wall mounting or DIN rail mo	ounting; both with mounting panel.
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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604
ETIM	
ETIM 9.0	EC001599
UNSPSC	

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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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