

2701534

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Axioline E, Digital I/O device, Ethernet, M12 fast connection technology, 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 an Ethernet network (Modbus/TCP). It is used to acquire and output digital signals.

### Your advantages

- Connection to Ethernet network using M12 connectors (D-coded)
- Transmission speed of 10 Mbps and 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	2701534
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7DB
Catalog page	Page 172 (C-6-2019)
GTIN	4046356763820
Weight per piece (including packing)	558.4 g
Weight per piece (excluding packing)	558.4 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

#### Utilization restriction

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

### Material specifications

Housing material	Pocan <sup>®</sup>
Color	anthracite

#### Interfaces

#### Ethernet

Number of interfaces	2
No. of channels	2
Connection method	M12 fast connection technology
Note on the connection method	D-coded
Number of positions	4
Transmission speed	10/100 Mbps (with auto negotiation)

#### Modbus/TCP

Equipment type	Modbus slave (server)
• • • • • • • • • • • • • • • • • • • •	Modbus protocols Modbus/TCP
System-specific protocols	
Protocols supported	SNMP v1
	НТТР
	TFTP
	FTP
	BootP
	DHCP
Specification	Modbus application protocol V1.1b



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## Input data

#### Digital

2 igital	
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 5 V DC
Input voltage range "1" signal	11 V DC 30 V DC
Nominal input voltage U <sub>IN</sub>	24 V DC
Nominal input current at U <sub>IN</sub>	typ. 3 mA
Sensor current per channel	typ. 75 mA (from U <sub>S</sub> )
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 <sub>S</sub> )
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



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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
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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

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

### Electrical properties

#### Potentials

Voltage supply U <sub>S</sub>	24 V DC
Power supply at U <sub>S</sub>	max. 4 A
Current consumption from U <sub>S</sub>	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 <sub>A</sub> ) for additional devices
Connection method	M12 connector (T-coded)



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Supply voltage         24 V DC           Supply voltage range         18 V DC 31.2 V DC (including all tolerances, including ripply typ. 3 mA ±15 % (at 24 V DC)           ectrical isolation/isolation of the voltage ranges         500 V AC, 50 Hz, 1 min.           Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs/bibus connection (Ethernet 1)         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: 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 1)/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 1)/FE         500 V AC, 50 Hz, 1 min.           Test voltage: Bus connection (Ethernet 1)/FE         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)/FE         500 V AC, 50 Hz, 1 min.           Test voltage: 24 V supply (actuator supply)/FE         500 V AC, 50 Hz, 1 min.           Test voltage: 24 V supply (actuator supply)/FE         500	Number of positions	4
Current consumption typ. 3 mA ±15 % (at 24 V DC) max. 12 A  sectrical isolation/isolation of the voltage ranges  Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/bus connection (Ethernet 1)  Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/bus connection (Ethernet 2)  Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/FE  Test voltage: 24 V supply (communications power/sensor supply, digital inputs/outputs)/FE  Test voltage: Bus connection (Ethernet 1)/FE  Test voltage: Bus connection (Ethernet 1)/FE  Test voltage: Bus connection (Ethernet 1)/FE  Test voltage: Bus connection (Ethernet 1)/bus connection  Test voltage: Bus connection (Ethernet 1)/bus connection  Test voltage: Bus connection (Ethernet 1)/bus connection  Test voltage: 24 V supply (actuator supply)/24 V supply (communications power and sensor supply, digital inputs/outputs)  Test voltage: 24 V supply (actuator supply)/bus connection  Test voltage: 24 V supply (actuator supply)/bus connection  Test voltage: 24 V supply (actuator supply)/bus connection  Test voltage: 24 V supply (actuator supply)/FE  Test voltage: 24 V supply (actuator suppl	Supply voltage	24 V DC
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(Ethernet 2)  Test voltage: 24 V supply (actuator supply)/24 V supply (communications power and sensor supply, digital inputs/outputs)  Test voltage: 24 V supply (actuator supply)/bus connection (Ethernet 1)  Test voltage: 24 V supply (actuator supply)/bus connection (Ethernet 2)  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  M12 connector  M12 connector  M12 connector  Tronmental and real-life conditions  Ambient temperature (operation)  Pegree of protection  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)  70 kPa 95 %  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %	Test voltage: Bus connection (Ethernet 2)/FE	500 V AC, 50 Hz, 1 min.
(communications power and sensor supply, digital inputs/outputs)  Test voltage: 24 V supply (actuator supply)/bus connection (Ethernet 1)  Test voltage: 24 V supply (actuator supply)/bus connection (Ethernet 2)  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  (Ethernet 2)  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  (Connection data  Connection method  M12 connector  Indicate temperature (operation)  Ambient conditions  Ambient temperature (operation)  Air pressure (operation)  Air pressure (storage/transport)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  5 % 95 %  Permissible humidity (operation)  5 % 95 %  Adards and regulations		500 V AC, 50 Hz, 1 min.
(Ethernet 1)  Test voltage: 24 V supply (actuator supply)/bus connection (Ethernet 2)  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  M12 connection  M12 connector  M12 connector  Tronmental and real-life conditions  Abient conditions  Ambient temperature (operation)  -25 °C 60 °C  Degree of protection  Air pressure (operation)  70 kPa 106 kPa (up to 3000 m above sea level)  Ambient temperature (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 %  Adards and regulations	(communications power and sensor supply, digital	500 V AC, 50 Hz, 1 min.
(Ethernet 2) Test voltage: 24 V supply (actuator supply)/FE  500 V AC, 50 Hz, 1 min.  mection data  Connection method  M12 connector  momental and real-life conditions  minient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  70 kPa 106 kPa (up to 3000 m above sea level)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  70 kPa 106 kPa (up to 3000 m above sea level)  Ambient temperature (storage/transport)  70 kPa 106 kPa (up to 3000 m above sea level)		500 V AC, 50 Hz, 1 min.
nection data  Connection method  M12 connector  fronmental and real-life conditions  abient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  Air pressure (storage/transport)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  Permissible humidity (storage/transport)  Degree of protection  To kPa 106 kPa (up to 3000 m above sea level)		500 V AC, 50 Hz, 1 min.
Connection method  M12 connector  ironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  Air pressure (storage/transport)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %  Indards and regulations	Test voltage: 24 V supply (actuator supply)/FE	500 V AC, 50 Hz, 1 min.
ironmental and real-life conditions  Ambient conditions  Ambient temperature (operation)  Degree of protection  Air pressure (operation)  Air pressure (storage/transport)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  for all p6 s C  1P65/IP67  70 kPa 106 kPa (up to 3000 m above sea level)  -25 °C 85 °C  Permissible humidity (operation)  5 % 95 %  and ards and regulations	nection data	
Ambient conditions  Ambient temperature (operation)  -25 °C 60 °C  Degree of protection  IP65/IP67  Air pressure (operation)  Air pressure (storage/transport)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  -25 °C 85 °C  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %	Connection method	M12 connector
Degree of protection  IP65/IP67  Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  Permissible humidity (storage/transport)  Degree of protection  70 kPa 106 kPa (up to 3000 m above sea level)  -25 °C 85 °C  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %	nbient conditions	-25 °C 60 °C
Air pressure (operation)  70 kPa 106 kPa (up to 3000 m above sea level)  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  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %	Ambient temperature (operation)	-20 O 00 O
Air pressure (storage/transport)  70 kPa 106 kPa (up to 3000 m above sea level)  -25 °C 85 °C  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %  adards and regulations	Degree of protection	IP65/IP67
Ambient temperature (storage/transport)  -25 °C 85 °C  Permissible humidity (operation)  5 % 95 %  Permissible humidity (storage/transport)  5 % 95 %  adards and regulations		
Permissible humidity (operation) 5 % 95 %  Permissible humidity (storage/transport) 5 % 95 %  Indards and regulations	Air pressure (operation)	70 kPa 106 kPa (up to 3000 m above sea level)
Permissible humidity (storage/transport) 5 % 95 %  Indards and regulations	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)
ndards and regulations	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)	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 %
Protection class III (IEC 61140, EN 61140, VDE 0140-1)	Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)	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 %
	Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  Permissible humidity (storage/transport)  adards and regulations	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 %
	Air pressure (operation)  Air pressure (storage/transport)  Ambient temperature (storage/transport)  Permissible humidity (operation)  Permissible humidity (storage/transport)  adards and regulations	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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## Classifications

UNSPSC 21.0

### **ECLASS**

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

32151600



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
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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