

2701509

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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, 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	2701509
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI7DA
Product key	DRI7DA
Catalog page	Page 175 (C-6-2019)
GTIN	4046356763615
Weight per piece (including packing)	558.7 g
Weight per piece (excluding packing)	545.6 g
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
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

Product properties

Туре	Stand-Alone
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Product type	I/O component
Product family	Axioline E
ectrical 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. 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
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.
T + 1/2 D : (E1/2 + 4)/EE	
Test voltage: Bus connection (Ethernet 1)/FE	500 V AC, 50 Hz, 1 min.
Test voltage: Bus connection (Ethernet 1)/FE Test voltage: Bus connection (Ethernet 2)/FE	500 V AC, 50 Hz, 1 min. 500 V AC, 50 Hz, 1 min.
Test voltage: Bus connection (Ethernet 2)/FE Test voltage: Bus connection (Ethernet 1)/bus connection	500 V AC, 50 Hz, 1 min.
Test voltage: Bus connection (Ethernet 2)/FE Test voltage: Bus connection (Ethernet 1)/bus connection (Ethernet 2) Test voltage: 24 V supply (actuator supply, digital outputs)/24 V	500 V AC, 50 Hz, 1 min. 500 V AC, 50 Hz, 1 min.
Test voltage: Bus connection (Ethernet 2)/FE Test voltage: Bus connection (Ethernet 1)/bus connection (Ethernet 2) Test voltage: 24 V supply (actuator supply, digital outputs)/24 V supply (communications power and sensor supply, digital inputs) Test voltage: 24 V supply (actuator supply, digital outputs)/bus	500 V AC, 50 Hz, 1 min. 500 V AC, 50 Hz, 1 min. 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	Wall mounting
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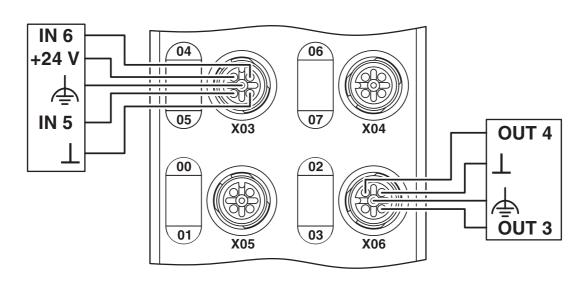


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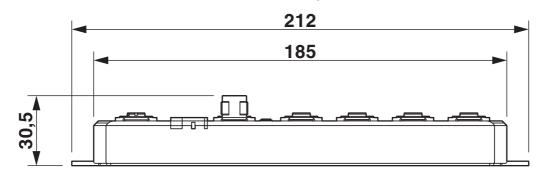
https://www.phoenixcontact.com/nz/products/2701509

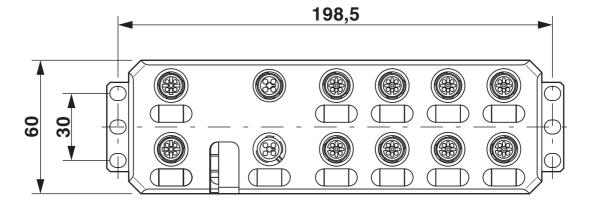
Drawings

Connection diagram



Dimensional drawing







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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/nz/products/2701509



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324

PROFINET

Approval ID: Z12260



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827

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Classifications

ECLASS

	ECLASS-11.0	27242604	
	ECLASS-12.0	27242604	
	ECLASS-13.0	27242604	
ETIM			
LITIV			
	ETIM 9.0	EC001599	
UNSPSC			
	UNSPSC 21.0	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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