

# AXL E EIP DI8 DO8 M12 6P - Digital module



2701492

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Axioline E, Digital I/O device, EtherNet/IP™, 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

## Commercial data

Item number	2701492
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7DD
Catalog page	Page 171 (C-6-2019)
GTIN	4046356762861
Weight per piece (including packing)	557.1 g
Weight per piece (excluding packing)	547 g
Customs tariff number	85176200
Country of origin	DE

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## Technical data

### Dimensions

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
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### Material specifications

Housing material	Pocan®
Color	anthracite

### Interfaces

#### EtherNet/IP™

Number of interfaces	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)

#### EtherNet/IP™

Equipment type	EtherNet/IP™ device
System-specific protocols	EtherNet/IP™ protocols ACD
	EtherNet/IP™ protocols DLR
	EtherNet/IP™ protocols IGMP v2
Protocols supported	SNMP v1
	HTTP
	TFTP
	FTP
	BootP
	DHCP
Specification	CIP Edition 3.11 EIP adaptation of CIP 1.12

### Input data

#### Digital

Input name	Digital inputs
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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 $\mu$ s
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 V ... -17 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 $\mu$ A
Nominal load, inductive	12 VA (1.2 H, 48 $\Omega$ , with nominal voltage)
Nominal load, ohmic	12 W (48 $\Omega$ , 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 $\mu$ s (when switched on) max. 200 $\mu$ s (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

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	max. 200 $\mu$ s (when switched off)
Overcurrent shut-down	min. 0.7 A

## Product properties

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

## Electrical properties

### 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 $\pm$ 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 $\pm$ 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.
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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
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## 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
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## Classifications

### ECLASS

ECLASS-11.0	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604

### ETIM

ETIM 9.0	EC001599
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### 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)