

Communication module - AXL E PN IOL4/0 DIO8 M12 6M-L



1300923

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Axioline E, IO-Link master and digital I/O device, PROFINET, M12 connector (D-coded), IO-Link ports Class A: 4, connection method: M12 connector (A-coded), connection technology: 3-conductor, Digital inputs at pin 2 for class A ports: 4, 24 V DC, connection technology: 3-conductor, Digital inputs: 8, 24 V DC, connection technology: 4-conductor, Digital outputs: 8, 24 V DC, 500 mA, connection technology: 3-conductor, degree of protection: IP65/IP67

Product Description

The Axioline E device is designed for use within a PROFINET network. The device enables the operation of up to four IO-Link sensors and actuators. In addition, you can acquire and output digital signals with the device. The device is suitable for use without a control cabinet in harsh industrial ambient conditions.

Your advantages

- Connection with M12 connectors with push-pull fast connection or screw connection
- Mapping in accordance with PROFINET specification V2.4 as PROFINET device (Conformance Class C)
- PROFINET Fast Startup function supported
- PROFINET system redundancy S2 supported
- PROFINET IRT supported with min. 1 ms cycle time
- IO-Link specification V1.1.3
- 2 Ethernet ports (with integrated switch)
- Transmission speed of 100 Mbps
- Short-circuit and overload protection
- IP65/IP67 degree of protection

Commercial Data

Item number	1300923
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DRI7NA
GTIN	4063151546311

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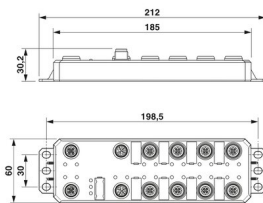


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Technical Data

Dimensions

Dimensional drawing	
Width	60 mm
Height	212 mm
Depth	30.2 mm

Material specifications

Housing material	Zinc die-cast
Color	gray

Interfaces

PROFINET

Number of interfaces	2
Connection method	M12 connector (D-coded)
Note on the connection method	Push-pull screw fast connection or screw connection
Number of positions	4
Transmission speed	100 Mbps (with auto negotiation)
System-specific protocols	PROFINET protocols LLDP PROFINET protocols MRP client PROFINET protocols DCP PROFINET protocols DCE-RPC
Protocols supported	HTTP SNMP v1

System properties

PROFINET

Device function	PROFINET device
Update rate	1 ms
Conformance Class	C

Input data

Digital

Input name	Digital inputs at pin 2 for class A ports
Description of the input	IEC 61131-2 type 1

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Number of inputs	4
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Input voltage range "0" signal	-0.3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 2.5 mA
Input frequency	0.5 kHz
Input filter time	< 1000 μ s

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 (A-coded)
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. 2.5 mA
Input filter time	3000 μ s 1000 μ s (Default) < 100 μ s (Filter disabled)
Protective circuit	Reverse polarity protection; yes Short-circuit protection; yes Overload protection; yes

Digital

Description of the input	IO-Link ports in digital input (DI) mode
Number of inputs	max. 4 (EN 61131-2 type 1)
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Nominal input voltage U_{IN}	24 V DC
Input voltage range "0" signal	-0.3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input current	typ. 2.5 mA
Input filter time	< 1000 μ s

IO-Link

Number of ports	4
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Port type	Class A

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Output data

Digital

Output name	Digital outputs
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Number of outputs	8
Protective circuit	Overload protection; yes Short-circuit protection; yes
Output voltage	24 V DC
Output current	500 mA (per output)
Nominal output voltage	24 V DC (from U_S)
Output voltage when switched off	max. 1 V
Output current when switched off	max. 300 μ A
Nominal load, inductive	48 VA (1.2 H, 12 Ω , at nominal voltage, utilization category DC-13)
Nominal load, ohmic	48 W (12 Ω , at nominal voltage)
Switching frequency	max. 1 per second (with inductive load)
Reverse voltage resistance to short pulses	no
Behavior with overload	Shutdown with automatic restart
Behavior with inductive overload	Output can be destroyed

Digital

Output description	IO-Link ports in digital output (DO) mode
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Number of outputs	max. 4
Nominal output voltage	24 V DC
Maximum output current per channel	200 mA
Protective circuit	Overload protection; yes Short-circuit protection; yes
Behavior with overload	Shutdown with automatic restart

Product properties

Type	Stand-Alone
Product type	I/O component

Insulation characteristics

Pollution degree	2 (IEC 60664-1, EN 60664-1)
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Electrical properties

Supply: IO-Link

Designation	IO-Link port supply
Nominal voltage for I/O supply	24 V DC
Nominal current for every IO-Link port	max. 2 A (at L+/L- (pin 1 and pin 3))

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Protective circuit	Overload protection; yes
	Short-circuit protection; yes
Permissible cable length	< 20 m

Supply: Sensors

Designation	Supply of the logic, sensors, and actuators (U _S)
Connection method	M12 connector (L-coded)
Number of positions	4
Supply voltage	24 V DC
Supply voltage range	18 V ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 100 mA
	max. 16 A

Supply: Actuators

Designation	Supply of actuators (U _A) for additional devices
Connection method	M12 connector (L-coded)
Number of positions	4
Supply voltage	24 V DC (Nominal voltage)
Supply voltage range	18 V DC ... 30 V (including all tolerances, including ripple)
Current consumption	typ. 4 mA
	max. 16 A

Connection data

Connection method	M12 connector
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °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 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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Classifications

ECLASS

ECLASS-9.0	27242604
ECLASS-10.0.1	27242604
ECLASS-11.0	27242604

ETIM

ETIM 8.0	EC001599
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UNSPSC

UNSPSC 21.0	32151600
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