AXL E IOL DI16 M12 6P - Digital module

2702660

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Axioline E digital input device via IO-Link in plastic housing with one IO-Link A-port and 16 inputs, 24 V DC, 4-conductor technology, M12 connectors

Product description

The Axioline E digital input device is connected to an IO-Link master via an IO-Link A port. It is used to acquire digital signals via IO-Link. Use within different networks is possible via the IO-Link master.

Your advantages

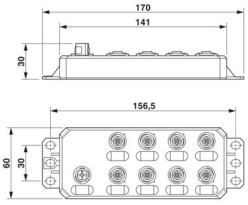
- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type A port
- IO-Link specification V1.1.2
- Connection of up to 16 inputs with M12 connectors (A-coded, 5-pos.)
- Diagnostic and status indicators
- Short-circuit and overload protection of the sensor supply
- Device rating plate stored
- IP65/IP67 degree of protection

Commercial data

Item number	2702660
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRI7DF
Product key	DRI7DF
GTIN	4055626280103
Weight per piece (including packing)	295,6 g
Weight per piece (excluding packing)	295,6 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	141 mm
Depth	20 mm
Note on dimensions	The height is 170 mm including fixing clips. The depth is 30 mm including the connector.

Notes

Note on application

Note on application	Only for industrial use

Utilization restriction

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

Material specifications

Housing material	Pocan®
Color	anthracite gray RAL 7016

Input data

Digital:

Description of the input	IEC 61131-2 types 1 and 3
Number of inputs	16
Cable length	max. 30 m (to the sensor)
Connection method	M12 connector
Connection technology	4-conductor
Input voltage range "0" signal	-3 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. 2.4 mA
Input filter time	1 ms
Protective circuit	Overload protection, short-circuit protection of sensor supply
	Polarity reversal protection of the inputs

IO-Link

Number of ports	1
Connection method	M12 connector, A-coded
Connection technology	3-conductor
Port type	Class A
Specification	V1.1.2
Reverse polarity protection	yes
Transmission speed	230.4 kbps (COM3)
Cycle Time	< 1 ms
Amount of process data	16 bit (Input data)

Product properties

Product family	Axioline E
Type	Stand-alone
Special properties	Plastic housing

Electrical properties

Supply: IO-Link

Designation	IO-Link port supply (L+)
Nominal voltage for I/O supply	24 V DC (Provided via the IO-Link interface of the IO-Link master.)
Supply voltage range	20 V DC ... 30 V DC (including all tolerances, including ripple)
Nominal current per device	approx. 56 mA (16 mA no load + current consumption sensors)
Permissible cable length	max. 20 m
Protective circuit	Reverse polarity protection; yes

Supply:

Designation	Power supply for sensors
Current consumption	max. 1.28 A (per port)
	max. 1.28 A (device dependent; observe the current of the IO-Link master that is made available via L+)

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply / functional ground	500 V AC, 50 Hz, 1 min

Connection data

Connection method	M12 connector
Note on the connection method	in accordance with IEC 61076-2-101, M12 connection technology

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 ... 70 °C

Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	5 % ... 95 %

Standards and regulations

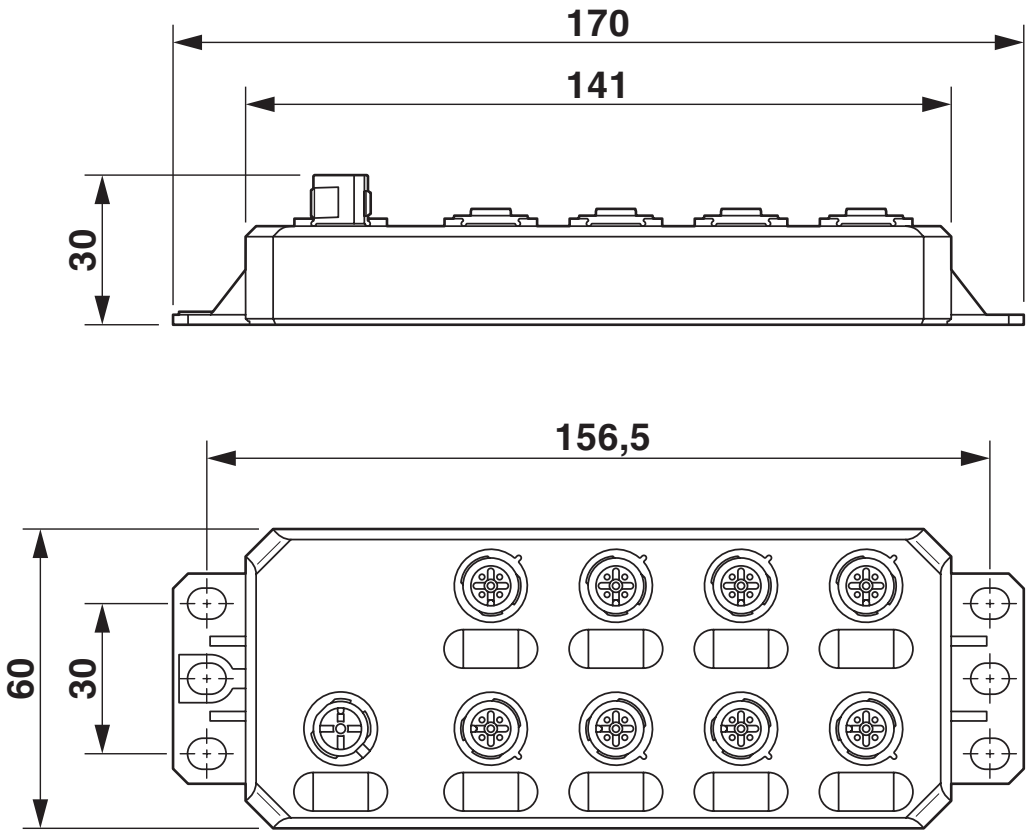
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

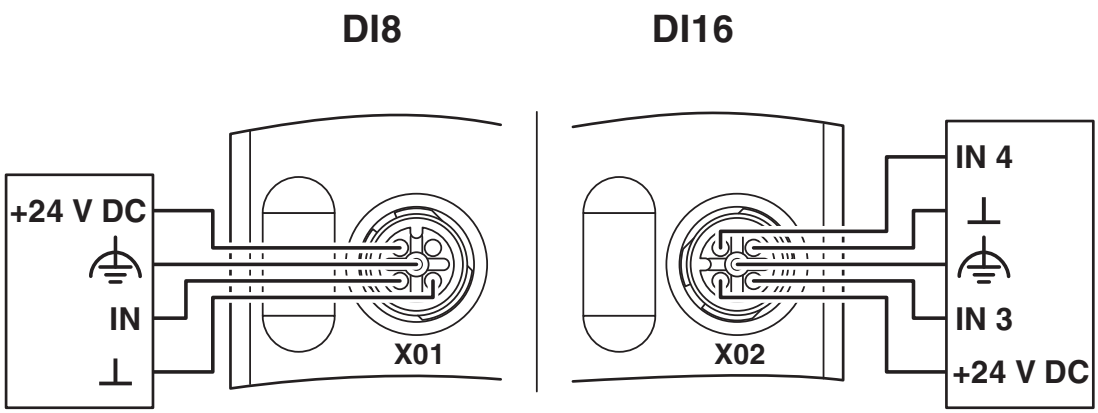
Mounting type	Screw mounting

Drawings

Dimensional drawing



Connection diagram



Approvals

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cULus Listed
Approval ID: E238705

Classifications

ECLASS

ECLASS-13.0	27242604
ECLASS-15.0	27242604

ETIM

ETIM 10.0	EC001599

UNSPSC

UNSPSC 21.0	32151600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	39cbd89e-19d7-4ff5-b63a-2477457fee1e

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