

Digital module - AXL E EIP DIO16 M12 6P



2701494

<https://www.phoenixcontact.com/gb/products/2701494>

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



Axioline E, Digital I/O device, EtherNet/IP™, 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 EtherNet/IP™ IO-Link master is designed for use within an EtherNet/IP™ network. It is used to acquire and output digital signals.

Your advantages

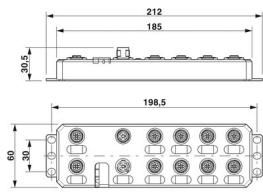
- Connection to EtherNet/IP™ network using M12 connectors (D-coded)
- Transmission speed of 10 Mbps and 100 Mbps
- Connection of digital sensors and actuators using M12connectors (A-coded)
- Diagnostic and status indicators
- Short-circuit and overload protection of the sensor supply
- IP65/IP67 degree of protection

Commercial Data

Item number	2701494
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI7DD
Product Key	DRI7DD
Catalog Page	Page 170 (C-6-2019)
GTIN	4046356763486
Weight per Piece (including packing)	558.8 g
Weight per Piece (excluding packing)	549.8 g
Customs tariff number	85176200
Country of origin	DE

Technical Data

Dimensions

Dimensional drawing	
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.

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

Digital module - AXL E EIP DIO16 M12 6P



2701494

<https://www.phoenixcontact.com/gb/products/2701494>

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_{IN}	24 V DC
Nominal input current at U_{IN}	typ. 3 mA
Input filter time	< 1000 μ 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	16
Protective circuit	Overload protection, short-circuit protection of outputs; yes
Output voltage	24 V DC
Maximum output current per channel	500 mA
Nominal output voltage	24 V DC (from voltage U_S)
Output voltage when switched off	max. 1 V
Output current when switched off	max. 20 μ A
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

Product properties

Type	Stand-Alone
Product type	I/O component

Electrical 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, sensors, and actuators

Digital module - AXL E EIP DIO16 M12 6P



2701494

<https://www.phoenixcontact.com/gb/products/2701494>

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 _A) for additional devices
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. 3 mA ±15 % (at 24 V DC) max. 12 A

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
---------------	---------------

Digital module - AXL E EIP DIO16 M12 6P



2701494

<https://www.phoenixcontact.com/gb/products/2701494>

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001599
----------	----------

UNSPSC

UNSPSC 21.0	32151600
-------------	----------

Phoenix Contact 2023 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk