Safety module - AXL E IOL SDI8 SDO4 2A M12 L

1185380

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Axioline E-safety module, 4 safe digital inputs for 2-channel assignment, 8 safe digital inputs for 1-channel assignment, 4 safe digital +/-switching outputs, IO-Link interface, IP65/IP67 degree of protection, for PROFIsafe systems

Product Description

The Axioline E Safe IP67 I/O box is the new addition to the Axioline E system.

The I/O box enables you to process safe inputs and outputs outside of the control cabinet and transfer them to the higher-level PROFIsafe controller.

To do this, the safety protocol is transmitted to the standard network via a Phoenix Contact IO-Link master and is then processed by the safety controller.

You can address the devices easily using the AXL E ADDRESSPLUG (100053), which is available as an accessory.

Your advantages

- Up to Cat. 4/PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with IEC 62061, SIL 3 in accordance with IEC 61508
- · Minimum installation effort with control-cabinet-free mounting
- · Safe outputs with up to 2 A
- · Long service life and high system availability with the robust design
- · Connection of safe sensors and actuators directly at field level
- · Easy device addressing with address plug

Commercial Data

Item number	1185380
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DNA541
Product Key	DNA541
GTIN	4063151225278
Weight per Piece (including packing)	405 g
Weight per Piece (excluding packing)	372 g
Customs tariff number	85389091
Country of origin	DE

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Technical Data

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Dimensional drawing	
Width	59.8 mm
Height	214 mm
Depth	30 mm
Note on dimensions	Specifications including fixing clips and connectors
erial specifications	
Housing material	Plastic POCAN B4239 GF30 YE 1018
-Link Amount of process data	64 Bit (Input and output data)
t data	
pital	Safe digital inputs
gital Input name	Safe digital inputs IEC 61131-2 type 3
gital Input name Description of the input	
pital Input name Description of the input Number of inputs	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment)
pital Input name Description of the input Number of inputs	IEC 61131-2 type 3 4 (for 2-channel assignment)
pital Input name Description of the input Number of inputs Cable length	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded)
pital Input name Description of the input Number of inputs Cable length Connection method	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m
gital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC
pital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC
gital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC
pital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC typ. 3.7 mA (at 24 V DC)
pital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal Nominal input voltage U _{IN} Nominal input current at U _{IN}	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC typ. 3.7 mA (at 24 V DC) max. 4.3 mA (with 30.2 V DC)
gital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal Nominal input voltage U _{IN} Nominal input current at U _{IN}	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC typ. 3.7 mA (at 24 V DC) max. 4.3 mA (with 30.2 V DC) 1.5 ms
gital Input name Description of the input Number of inputs Cable length Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal Nominal input voltage U _{IN} Nominal input current at U _{IN}	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC typ. 3.7 mA (at 24 V DC) max. 4.3 mA (with 30.2 V DC) 1.5 ms 3 ms (Default)
t data gital Input name Description of the input Number of inputs Cable length Connection method Connection method Connection technology Input voltage range "0" signal Input voltage range "1" signal Nominal input voltage U _{IN} Nominal input current at U _{IN}	IEC 61131-2 type 3 4 (for 2-channel assignment) 8 (for 1-channel assignment) max. 200 m M12 connector (A-coded) 3-conductor -30 V DC 5 V DC 11 V DC 30.2 V DC 24 V DC typ. 3.7 mA (at 24 V DC) max. 4.3 mA (with 30.2 V DC) 1.5 ms

- IO-Link
 - Number of ports

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Connection method	M12 connector, A-coded
Connection technology	3-conductor
Port type	Class A

Output data

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Output name	Safe digital outputs
Connection method	M12 connector (A-coded)
Connection technology	2-conductor
Number of outputs	4 (for 2-channel assignment, +/- switching)
	4 (for 1-channel assignment, + switching)
Protective circuit	Overload protection, short-circuit protection of outputs
Output voltage	U _A - 1.4 V
Output current	max. 2 A (per channel)
	max. 2 A (per output)
	max. 6 A (Total current of all outputs; Please observe the notes in the user manual.)
Maximum output current per channel	2 A
Nominal output voltage	24 V DC (from voltage U _A)
Output voltage when switched off	< 5 V ((in the Low state))
Output current when switched off	2 mA (Leakage current in the Low state)
Delay time	max. 128 s (can be parameterized)
Permissible cable length	max. 50 m
Switching frequency	max. 1 Hz
Reverse voltage resistance to short pulses	no

Product properties

Туре	Stand-Alone
Product type	I/O component
Mounting position	any
Application	Functional safety
Operating mode	Process data mode with 4 words
Insulation characteristics	

4

Pollution degree

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.)	
Nominal current per device	approx. 15 mA	
Protective circuit	Reverse polarity protection	
Permissible cable length	max. 20 m	

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Mounting position

Designation	Supply of module electronics and sensors (U _S)
Connection method	M12 connector (L-coded)
Number of positions	2
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30.2 V DC (including all tolerances, including ripple
Current consumption	67 mA (without sensors)
Supply: Actuators	
Designation	Actuator supply (U _A)
Connection method	M12 connector (L-coded)
Number of positions	2
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30.2 V DC (including all tolerances, including ripple
Current consumption	52 A (without actuators)
nnection data	
nnection data	
Connection method	M12 connector
Note on the connection method	in accordance with IEC 61076-2-101, M12 connection technolog

Ambient conditions	
Ambient temperature (operation)	-25 °C 60 °C (Mounting position: any)
Degree of protection	IP65/IP67 (in accordance with DIN EN 60529:1989 + A1:1999 + A2:2013)
Note	Resistant to gas that may endanger functions (sulfur dioxide (SO_2) , hydrogen sulfide (H_2S))
Air pressure (operation)	70 kPa 108 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	66 kPa 108 kPa (up to 3500 m above sea level)
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (storage/transport)	75 % (non-condensing)
Standards and regulations	
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
Air clearances and creepage distances	
Air clearances and creepage distances	In accordance with IEC 60664-1
Nounting	
Mounting type	DIN rail mounting

any

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Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC001599		
UNSPSC				
	UNSPSC 21.0	32151600		

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