

FLS IB M12 DI 8 M12 - Distributed I/O device



2736013

<https://www.phoenixcontact.com/us/products/2736013>

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.



The stand-alone device for INTERBUS has 8 digital inputs. The M12 connection is established using fast connection technology. The 24 V DC supply is protected against short circuit and overload. The nominal current of the device is 600 mA.

Product description

This device is used for digital signal acquisition.

Your advantages

- Consistent connection via M12 connectors
- Diagnostic and status indicators
- SPEEDCON fast locking system
- Short-circuit and overload protection
- Flexible power supply concept

Commercial data

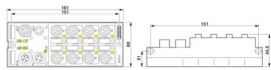
Item number	2736013
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR03
Product key	DRI4A1
GTIN	4017918899639
Weight per piece (including packing)	335.1 g
Weight per piece (excluding packing)	310 g
Customs tariff number	85176200
Country of origin	DE

2736013

<https://www.phoenixcontact.com/us/products/2736013>

Technical data

Dimensions

Dimensional drawing	
Width	60 mm
Height	161 mm
Depth	44.5 mm
Drill hole spacing	151 mm

Interfaces

INTERBUS

Connection method	2x M12 connectors, B-coded
Designation connection point	Copper cable
Number of positions	5
Transmission speed	500 kbps

System properties

System limits

Number of local bus devices that can be connected	0
Number of devices with parameter channel	0

Programming data

Length code (hex)	81
ID code (dec.)	2
Length code (dec)	129
Process data channel	0 bit
Input address area	8 bit
Output address area	0 bit
Parameter channel (PCP)	0 bit
Register length (bus)	8 bit

Input data

Digital:

Input name	Digital inputs
Description of the input	IEC 61131-2 type 1
Number of inputs	8
Connection method	M12 connector
Connection technology	2-, 3-, 4-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC

FLS IB M12 DI 8 M12 - Distributed I/O device



2736013

<https://www.phoenixcontact.com/us/products/2736013>

Input voltage range "1" signal	13 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Filter time	3 ms
Protective circuit	Reverse polarity protection

Product properties

Product type	I/O component
Product family	Fieldline
Type	Block design
No. of channels	8

Electrical properties

Potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	typ. 65 mA
	max. 100 mA
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 5 mA (plus sensor current)
	max. 700 mA

Supply: Module electronics

Connection method	M12 connector, A-coded
Designation	U_L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

Electrical isolation/isolation of the voltage ranges

Test voltage: 24 V supply (bus logics) / FE	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Digital inputs (sensor supply / I/O)	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Incoming remote bus	500 V AC, 50 Hz, 1 s
Test voltage: 24 V supply (bus logics) / Outgoing remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / FE	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / Incoming remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Digital inputs (sensor supply / I/O) / Outgoing remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Incoming remote bus / FE	500 V AC, 50 Hz, 1 s
Test voltage: Incoming remote bus / Outgoing remote bus	500 V AC, 50 Hz, 1 s
Test voltage: Outgoing remote bus / FE	500 V AC, 50 Hz, 1 s

Connection data

Connection method	M12 connector
-------------------	---------------

2736013

<https://www.phoenixcontact.com/us/products/2736013>

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 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 (storage/transport)	95 %

Standards and regulations

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

Mounting

Mounting type	Panel mounting
---------------	----------------

FLS IB M12 DI 8 M12 - Distributed I/O device

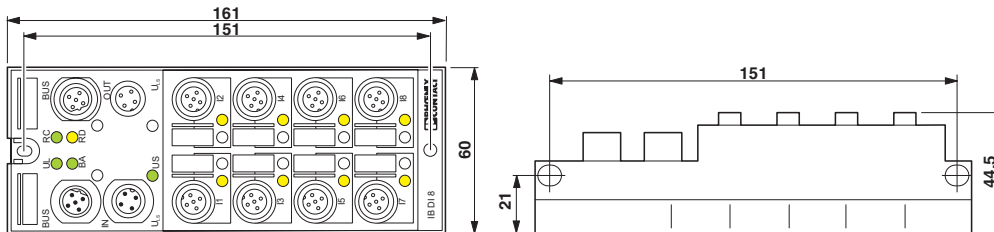


2736013

<https://www.phoenixcontact.com/us/products/2736013>

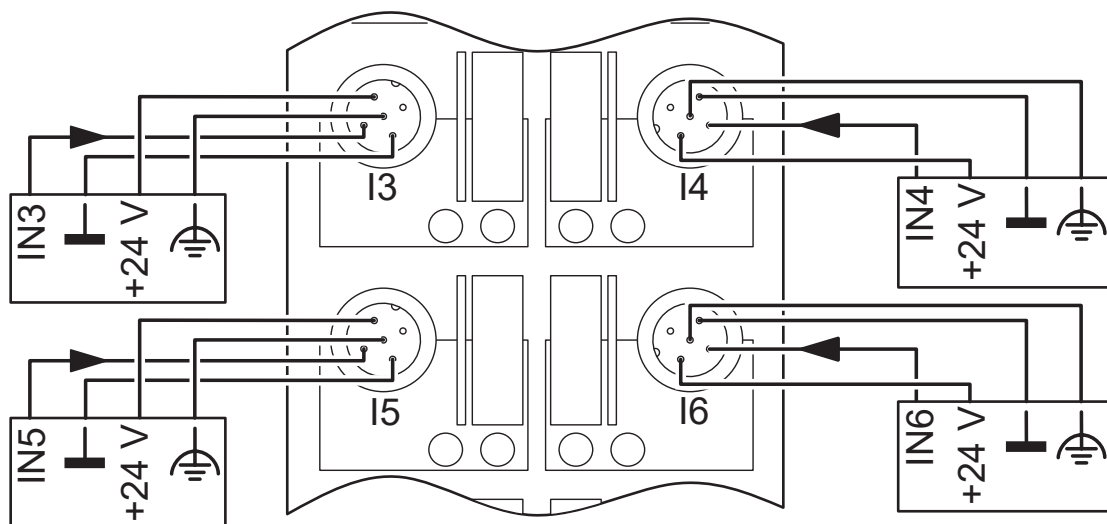
Drawings

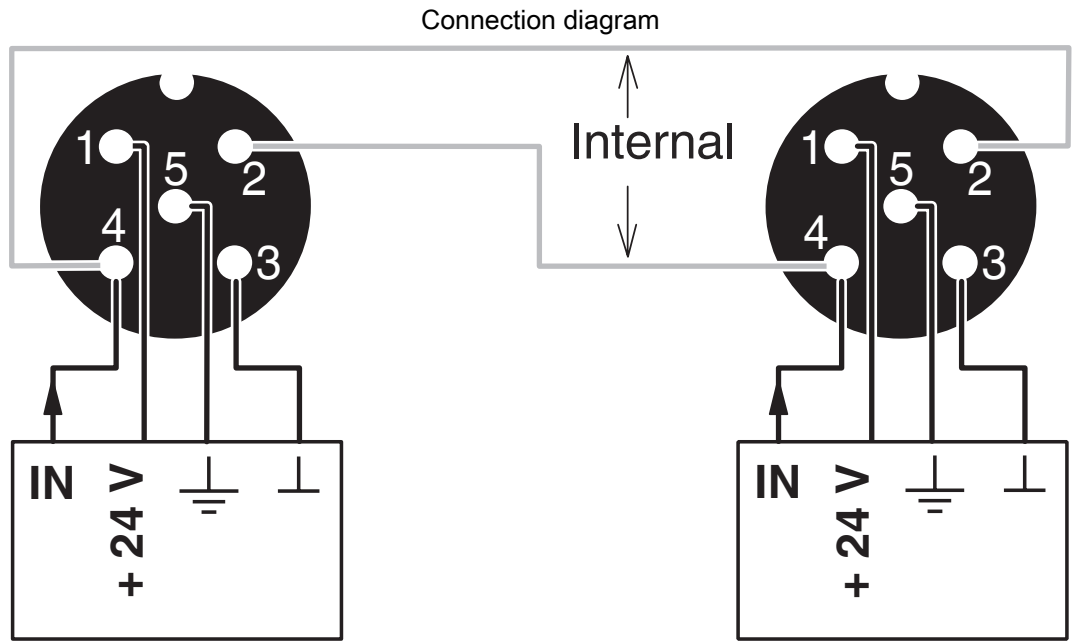
Dimensional drawing



Dimensions of the module

Connection diagram





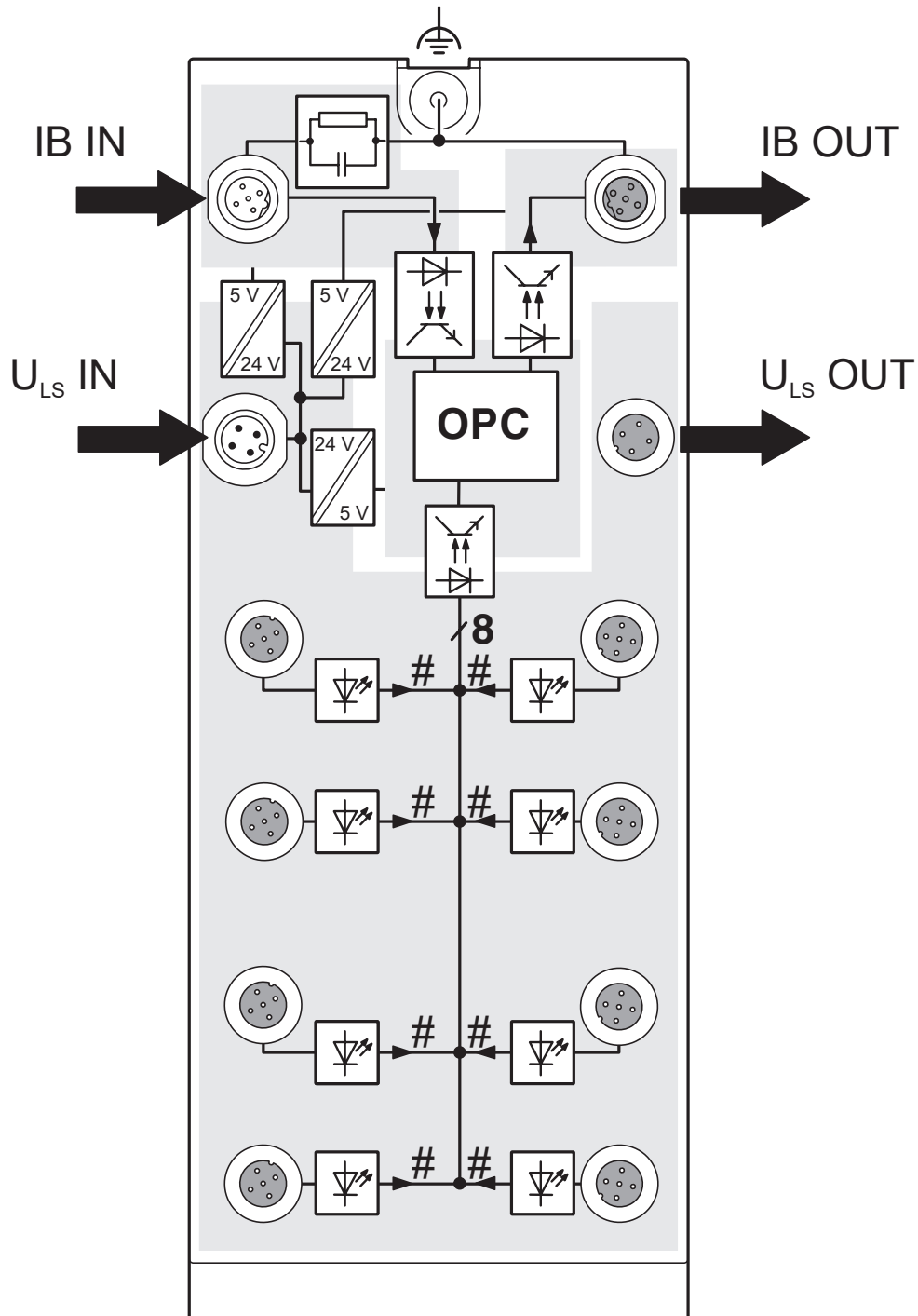
- | | | |
|----------------|---|----------------|
| female conn. 1 | ↔ | female conn. 2 |
| female conn. 3 | ↔ | female conn. 4 |
| female conn. 5 | ↔ | female conn. 6 |
| female conn. 7 | ↔ | female conn. 8 |

FLS IB M12 DI 8 M12 - Distributed I/O device

2736013

<https://www.phoenixcontact.com/us/products/2736013>

Block diagram



FLS IB M12 DI 8 M12 - Distributed I/O device



2736013

<https://www.phoenixcontact.com/us/products/2736013>

Classifications

UNSPSC

UNSPSC 21.0	32151602
-------------	----------

FLS IB M12 DI 8 M12 - Distributed I/O device



2736013

<https://www.phoenixcontact.com/us/products/2736013>

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-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com