

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



The local bus device has digital inputs and outputs. Functions: 16 digital inputs, 3 ms filter time, 16 digital outputs of 500 mA each, 500 kbaud/2 Mbaud selection, diagnostics strategy, short-circuit/overload protection, 8-pos. M12 fast connection technology.

Product Features

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

Key commercial data

package_quantity	1
GTIN	4046356042642

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
--------------------------------	---

Dimensions

Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %
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)
Degree of protection	IP65/67

General

Weight	400 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

Technical data

General

Test section	To I/O 500 V DC 1 min
---------------------	-----------------------

Interfaces

Name	Fieldline local bus
Connection method	M12 connector, B-coded
Designation connection point	Copper cable
Transmission speed	500 kBit/s / 2 MBit/s
Number of positions	5

Power supply for module electronics

Connection method	M12 connector
Name	U_L
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC IEC 61131-2 (including ripple)

Fieldline potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 100 mA (At 2 Mbaud)
Current consumption from U_L	typ. 80 mA (At 2 Mbaud)
Current consumption from U_L	max. 75 mA (At 500 kBaud)
Current consumption from U_L	typ. 60 mA (At 500 kBaud)
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 20 mA (plus power supply for sensors)
Current consumption from U_S	max. 1.2 A
Current consumption from U_S	max. 1.2 A
Voltage supply U_{A11}	24 V DC
Power supply at U_{A11}	max. 4 A
Current consumption at U_{A11}	typ. 15 mA
Current consumption at U_{A11}	max. 4 A
Voltage supply U_{A12}	24 V DC
Power supply at U_{A12}	max. 4 A
Current consumption at U_{A12}	typ. 15 mA
Current consumption at U_{A12}	max. 4 A

Digital inputs

Input name	Digital inputs
Connection method	M12 connector, 8-pos.
Connection method	2, 3-wire
Number of inputs	16
Protective circuit	Short-circuit protection, overload protection of the sensor supply Protection against polarity reversal

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

Technical data

Digital inputs

Filter time	3 ms
Input characteristic curve	IEC 61131-2 type 1
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC ... 5 V DC
Input voltage range "1" signal	13 V DC ... 30 V DC
Delay at signal change from 0 to 1	3 ms
Delay at signal change from 1 to 0	3 ms

Digital outputs

Output name	Digital outputs
Connection method	M12 connector, 8-pos.
Connection method	2-wire
Number of outputs	16
Protective circuit	Short-circuit protection, overload protection of the sensor supply Polarity protection diode
Maximum output current per channel	500 mA

classifications

eCl@ss

eCl@ss 4.0	27250302
eCl@ss 4.1	27250302
eCl@ss 5.0	27250302
eCl@ss 5.1	27242604
eCl@ss 6.0	27242604
eCl@ss 7.0	27242604
eCl@ss 8.0	27242604

ETIM

ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

accessories

Terminal marking

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

ZBF 12:UNBEDRUCKT - 0809735



Data cable preassembled

SAC-5P-M12MSB/ 2,0-900 - 1507065



SAC-5P-M12MSB/ 5,0-900 - 1507078



SAC-5P-M12MSB/10,0-900 - 1507081



SAC-5P-M12MSB/15,0-900 - 1507094



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SAC-5P- 2,0-900/M12FSB - 1507117



SAC-5P- 5,0-900/M12FSB - 1507120



SAC-5P-10,0-900/M12FSB - 1507133



SAC-5P-15,0-900/M12FSB - 1507146



SAC-5P-M12MSB/ 0,3-900/M12FSB - 1507162



SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SAC-5P-M12MSB/ 1,0-900/M12FSB - 1507188



SAC-5P-M12MSB/ 2,0-900/M12FSB - 1507191



SAC-5P-M12MSB/ 5,0-900/M12FSB - 1507201



SAC-5P-M12MSB/10,0-900/M12FSB - 1507214



SAC-5P-M12MSB/15,0-900/M12FSB - 1507227



Sensor/actuator cable

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SAC-5P-MS/ 2,0-186 SCO - 1518326



SAC-5P-MS/ 5,0-186 SCO - 1518339



SAC-5P-MS/10,0-186 SCO - 1518342



SAC-5P-MS/15,0-186 SCO - 1518355



SAC-5P- 2,0-186/FS SCO - 1518368



SAC-5P- 5,0-186/FS SCO - 1518371



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SAC-5P-10,0-186/FS SCO - 1518384



SAC-5P-15,0-186/FS SCO - 1518397



SAC-5P-MS/ 0,3-186/FS SCO - 1518407



SAC-5P-MS/ 0,5-186/FS SCO - 1518410



SAC-5P-MS/ 1,0-186/FS SCO - 1518423



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SAC-5P-MS/ 2,0-186/FS SCO - 1518436



SAC-5P-MS/ 5,0-186/FS SCO - 1518449



SAC-5P-MS/10,0-186/FS SCO - 1518452



SAC-5P-MS/15,0-186/FS SCO - 1518465



SAC-5P-MS/ 0,13-186/FS SCO - 1518481



SAC-5P-MSB/0,13-PUR/FSB SCO SH - 1518478



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

Circular connector (cable-side)

SACC-M12MSB-5CON-PG9 SH AU - 1507764



SACC-M12FSB-5CON-PG9 SH AU - 1507777



SACC-M12MSB-5SC SH - 1513570



SACC-M12FSB-5SC SH - 1513596



SACC-M12MRB-5SC SH - 1513583



Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

accessories

SACC-M12FRB-5SC SH - 1513606



SACC-M12MS-5SC M - 1508187



SACC-M12FS-5SC M - 1508200



accessories

PROT-M12-M - 2736194



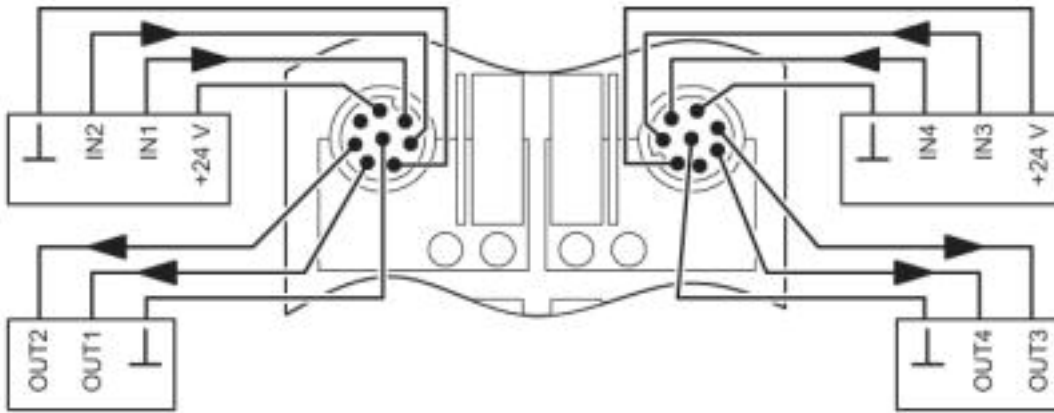
ZBF 12:SO/CMS - 0810038



Drawings

Distributed I/O device - FLM DIO 16/16 M12/8-DIAG - 2736738

Connection diagram



Dimensioned drawing

