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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
- Short-circuit and overload protection
- ☑ Consistent connection via M12 connectors



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	448.6 GRM
Custom tariff number	85176200
Country of origin	Germany

Technical data

Note

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

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

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C



Technical data

Ambient conditions

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/IP67

General

Weight	400 g
Mounting type	Wall mounting
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	To I/O 500 V DC 1 min

Interfaces

Designation	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
Designation	U_L
Supply voltage	24 V DC
Supply voltage range	18 V DC 30 V DC (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)
	typ. 80 mA (At 2 Mbaud)
	max. 75 mA (At 500 kBaud)
	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)
	max. 1.2 A
	max. 1.2 A
Voltage supply U _{A11}	24 V DC
Power supply at U _{A11}	max. 4 A



Technical data

Fieldline potentials

Current consumption at U _{A11}	typ. 15 mA
	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
	max. 4 A

Digital inputs

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



Classifications

eCl@ss

eCl@ss 7.0	27242604
eCI@ss 8.0	27242604

ETIM

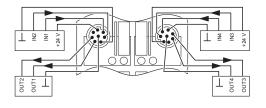
ETIM 2.0	EC001430
ETIM 3.0	EC001599
ETIM 4.0	EC001599
ETIM 5.0	EC001599

UNSPSC

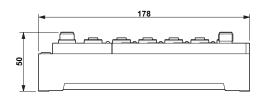
UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Drawings

Connection diagram



Dimensioned drawing



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