

2884619

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Inline, Bus coupler, Mechatrolink, USB type A, socket, Digital inputs: 8, 24 V DC, connection technology: 3-conductor, Digital outputs: 4, 24 V DC, 500 mA, connection technology: 3-conductor, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

## Product description

The bus coupler for the Mechatrolink protocol has 4 digital outputs and 8 digital inputs. This package contains all the necessary Inline connectors for connecting the supply and the I/Os.

The Inline terminals can be labeled using pull-out labeling fields. The fields have insert cards that can be labeled individually to suit the application. Additionally, there is the ZBFM-6... Zack marker strip for labeling the terminal points.

## Your advantages

- Data transmission speed: 10 Mbps (MII) and 4 Mbps (MI)
- · Supports high-speed I/O scanner
- · Slave address, baud rate, and Mechatrolink data width can be set via DIP switches
- · Mechatrolink network connection
- · Meets Mechatrolink II intelligent I/O specification

#### Commercial data

Item number	2884619
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI116
Catalog page	Page 192 (C-8-2013)
GTIN	4046356137836
Weight per piece (including packing)	335.13 g
Weight per piece (excluding packing)	335.13 g
Customs tariff number	85389091
Country of origin	DE



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## Technical data

#### **Dimensions**

Dimensional drawing	119.8
Width	80 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Specfications with connectors

## Material specifications

Color	green
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#### Interfaces

#### Mechatrolink

No. of channels	2
Connection method	USB type A, socket
Transmission speed	max. 10 Mbps

#### Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

#### Fieldbus: Local bus gateway

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Max. number of local bus devices	61 (The on-board I/Os are two devices)

## System properties

#### System limits

Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 61 (The on-board I/Os are two devices)
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	0

## Module

Module	
Register length	16 bit

## Input data

#### Digital



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Description of the input	EN 61131-2 type 1
Number of inputs	8
Connection method	Inline connector
Connection technology	3-conductor
Input voltage	24 V DC
Input voltage range "0" signal	-30 V DC 5 V DC
Input voltage range "1" signal	15 V DC 30 V DC
Nominal input voltage U <sub>IN</sub>	24 V DC
Nominal input current at U <sub>IN</sub>	typ. 3 mA
Typical input current per channel	typ. 3 mA
Typical response time	approx. 500 µs
Delay at signal change from 0 to 1	1.2 ms
Delay at signal change from 1 to 0	1.2 ms
Protective circuit	Reverse polarity protection; Suppressor diode

## Output data

#### Digital

Output name	Digital outputs
Connection method	Inline connector
Connection technology	3-conductor
Number of outputs	4
Protective circuit	Short-circuit and overload protection; Freewheeling circuit in the output driver
Output voltage	24 V DC -1 V (At nominal current)
Maximum output current per module	max. 2 A
Nominal output voltage	24 V DC
Output current when switched off	max. 10 $\mu A$ (When not loaded, a voltage can be measured even at an output that is not set.)
Nominal load, inductive	12 VA (1.2 H, 48 Ω)
Nominal load, lamp	12 W
Nominal load, ohmic	12 W
Reverse voltage resistance to short pulses	Reverse voltage proof
Behavior with overload	Auto restart
Behavior with inductive overload	Output can be destroyed
Behavior at voltage switch-off	The output follows the power supply without delay
Signal delay	typ. 1.2 ms
Overcurrent shut-down	min. 0.7 A

## Product properties

Туре	modular
	Inline
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields



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No. of channels	12
Diagnostics messages	Short-circuit or overload of the digital outputs yes
	Sensor supply failure yes
	Failure of the actuator supply yes

## E

Potentials: Bus coupler supply  $U_{BK}$ ; Communications power  $U_{L}$  (7.5 V) and the analog supply  $U_{ANA}$  (24 V) are generated from the bus coupler supply.

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Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 0.9 A
Potentials: Communications power (U <sub>L</sub> )	
Supply voltage	7.5 V DC
Potentials: Supply of analog modules (U <sub>ANA</sub> )	
Supply voltage	24 V DC
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Potentials: Main circuit supply (U <sub>M</sub> )	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 8 A DC
Potentials: Segment circuit supply (U <sub>S</sub> )	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Current draw	max. 8 A DC

### Connection data

#### Connection technology

Conductor cross section, rigid

Conductor cross section, flexible

Conductor cross section AWG

Stripping length

Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm² 1.5 mm²
Conductor cross section flexible	0.08 mm² 1.5 mm²
Conductor cross section AWG	28 16
Stripping length	8 mm
Inline connector	
Connection method	Spring-cage connection

 $0.08 \; mm^2 \ldots \, 1.5 \; mm^2$ 

0.08 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

28 ... 16

8 mm



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#### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	0 °C 55 °C
Degree of protection	IP20
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)	10 % 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % 95 % (according to DIN EN 61131-2)

#### Standards and regulations

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

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