

# IL DN BK DI8 DO4-PAC

Order No.: 2897211

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DeviceNet™ bus coupler, 8 inputs, 24 V DC, 4 outputs, 24 V DC, 500 mA, complete with I/O connectors



## Commercial data

GTIN (EAN)	 4 046356 103015
Note	Made-to-order
sales group	K410
Pack	1 pcs.
Customs tariff	85176200
Catalog page information	Page 256 (AX-2009)

## Product notes

WEEE/RoHS-compliant since:  
05/06/2008



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## Product description

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

For project planning, the corresponding EDS (device master data) file for the product is provided in the download center.

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.

## Technical data

### General data

Width	80 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Specifications with male connectors
Weight	320 g
Note on weight specifications	with male connectors
Mounting type	DIN rail
Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-45 °C ... 85 °C
Permissible humidity (operation)	95 % (no condensation)
Permissible humidity (storage/transport)	85 % (no condensation)
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3500 m above mean sea level)
Degree of protection	IP20
Mechanical tests	Vibration resistance in acc. with IEC 60068-2-6 5g Shock test in acc. with IEC 60068-2-27 Operation: 25 g, 11 ms duration, semi-sinusoidal shock impulse

### Interface

Fieldbus system	Lokalbus
Name	Inline local bus
Type of connection	Inline data jumper
Transmission speed	500 Kbit / 2 Mbaud 500 kBit/s / 2 MBit/s (automatic recognition)
Fieldbus system	DeviceNet™
Name	DeviceNet™
Type of connection	2x 5-pos. TWIN-COMBICON connectors
Transmission speed	500 kBaud, 250 kBaud, 125 kBaud (Can be set via DIP switch or programmed)
Number of positions	10
Name	Supply
Type of connection	8-pos. Inline connector

### Power supply for module electronics

Supply voltage	24 V DC
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Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Supply current	Typ. 70 mA
Current consumption	max. 0.9 A (from $U_{BK}$ )

#### Inline potential routing

Communications power $U_L$	7.5 V DC $\pm 5\%$
Power supply at $U_L$	max. 0.8 A DC
Main circuit supply $U_M$	24 V DC
Supply voltage range $U_M$	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply at $U_M$	max. 8 A DC (Sum of $U_M + U_S$ )
Current consumption from $U_M$	max. 8 A DC
Segment supply voltage $U_S$	24 V DC
Supply voltage range $U_S$	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply at $U_S$	max. 8 A DC (Sum of $U_M + U_S$ )
Current consumption from $U_S$	max. 8 A DC
I/O supply voltage $U_{ANA}$	24 V DC
Supply voltage range $U_{ANA}$	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply at $U_{ANA}$	max. 0.5 A DC

#### Digital inputs

Input name	Digital inputs
Description of the input	EN 61131-2 type 1
Type of connection	Inline connectors
Connection method	2, 3-wire
Number of inputs	8
Typical response time	Approx. 500 $\mu$ s
Protective circuit	Protection against polarity reversal Suppressor diode
Input voltage	24 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Typical input current per channel	Typ. 3 mA

#### Digital outputs

Output name	Digital outputs
Type of connection	Inline connectors
Connection method	2, 3-wire
Number of outputs	4

Protective circuit	Short-circuit and overload protection Free running circuit
Output voltage	24 V DC -1 V (At nominal current)
Nominal output voltage	24 V DC
Maximum output current per channel	500 mA
Maximum output current per module / terminal block	4 A
Maximum output current per module	4 A
Nominal load, inductive	12 VA
Nominal load, lamp	12 W
Nominal load, ohmic	12 W

### Certificates / Approvals



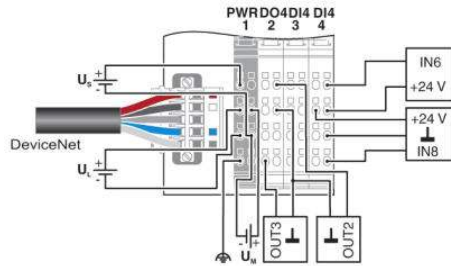
Certification	CUL, UL
Certification Ex:	CUL-EX LIS, UL-EX LIS

### Accessories

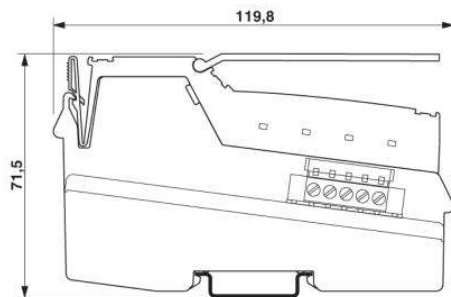
Item	Designation	Description
<b>Assembly</b>		
3022218	CLIPFIX 35	Snap-on end bracket, for 35 mm NS 35/7.5 or NS 35/15 DIN rail, can be fitted with Zack strip ZB 8 and ZB 8/27, terminal strip marker KLM 2 and KLM, width: 9.5 mm, color: gray
<b>Marking</b>		
0809492	ESL 62X10	Insert strip for laser printer, lettering field: 62 x 10 mm
0809502	ESL 62X46	Insert strip for laser printer, lettering field: 62 x 46 mm
2727501	IB IL FIELD 2	Labeling field, width: 12.2 mm
2727515	IB IL FIELD 8	Labeling field, width: 48.8 mm
<b>Plug/Adapter</b>		
2878599	IL BKDIO-PLSET	Connector set, for Inline bus coupler with I/Os mounted in rows

## Diagrams/Drawings

### Connection diagram



### Dimensioned drawing



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