

IL PB BK-R - Bus coupler



2860222

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PROFIBUS bus coupler, Standard-PROFIBUS-DP, 24 V DC, without accessories

Commercial data

Item number	2860222
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DR01
Product key	DRI112
GTIN	4017918821951
Weight per piece (including packing)	288.9 g
Weight per piece (excluding packing)	288.9 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Product properties

Type	modular
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System properties

Programming data

Register length (master)	192 Byte
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Electrical properties

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.

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. 1.25 A (with max. number of connected I/O terminal blocks) typ. 100 mA (without connected Inline I/O terminals)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC $\pm 5\%$
Power supply	max. 2 A DC (observe derating)

Potentials: Supply of analog modules (U_{ANA})

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 0.5 A DC (observe derating)

Potentials: Main circuit supply (U_M)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A DC (sum of $U_M + U_S$)

Potentials: Segment circuit supply (U_S)

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply	max. 8 A DC (sum of $U_M + U_S$)

Electrical isolation/isolation of the voltage ranges

Test voltage: 5 V supply, incoming remote bus / 5 V supply outgoing remote bus	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply, incoming remote bus / 24 V main supply, 24 V segment supply	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply incoming remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / I/O (U_M, U_S)	500 V AC, 50 Hz, 1 min

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Test voltage: 5 V supply outgoing remote bus / communications power (U_{BK} , U_L , U_{ANA})	500 V AC, 50 Hz, 1 min
Test voltage: 5 V supply outgoing remote bus / functional ground	500 V AC, 50 Hz, 1 min
Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground	500 V AC, 50 Hz, 1 min
Test voltage: Communications power (U_{BK} , U_L , U_{ANA}) / I/O (U_M , U_S)	500 V AC, 50 Hz, 1 min
Test voltage: 24 V main supply, 24 V segment supply/functional ground	500 V AC, 50 Hz, 1 min

Connection data

Inline connector

Connection method	Spring-cage connection
Conductor cross-section, rigid	0.09 mm ² ... 1.5 mm ²
Conductor cross-section, flexible	0.09 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Interfaces

PROFIBUS DP

Connection method	D-SUB-9 female connector
Transmission speed	500 kbps
Transmission physics	Copper

Inline local bus

Connection method	Inline data jumper
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Material specifications

Color	green
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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)	up to 3000 m above sea level
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)

Mounting

Mounting type	DIN rail mounting
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Environmental product compliance

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%
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