IBS IL 24 BK-E2000-PAC - Bus coupler

2897169

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The figure shows a version without connector

Inline, Bus coupler, INTERBUS, E2000, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected analog modules.

Your advantages

- Remote bus connections via E2000 connectors
- Use of PCF and/or glass fiber cable
- Optical path diagnostics
- Mode switch for adjusting interface properties

Commercial data

Item number	2897169
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI111
GTIN	4046356165808
Weight per piece (including packing)	275.6 g
Weight per piece (excluding packing)	210 g
Country of origin	DE

Technical data

Dimensions

Width	90 mm
Height	119.8 mm
Depth	71.5 mm

Mounting

Mounting type	DIN rail mounting

Material specifications

Color (Housing)	green (RAL 6021)

Interfaces

INTERBUS

No. of channels	2
Connection method	E2000

Inline local bus

Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

System limits

Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 63
Number of supported branch terminals with remote bus branch	0

Programming data

Length code (hex)	01
ID code (dec.)	02
Length code (dec)	01
Process data channel	16 bit
Input address area	2 Byte
Output address area	0 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	0 bit
Register length (master)	8192 bit

Product properties

Product type	I/O component
Product family	Inline
Type	modular
Scope of supply	including Inline connector and labeling field

Electrical properties

Maximum power dissipation for nominal condition	23 W
Protective circuit	Reverse polarity protection

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. 960 mA (with max. number of connected I/O terminal blocks)
	typ. 60 mA (without connected Inline I/O terminals)

Potentials: Communications power (U_L)

Supply voltage	7.5 V DC ±5 %
Power supply	max. 1 A DC

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

Electrical isolation/isolation of the voltage ranges

Test voltage: 7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional ground	1000 V DC, 1 min

Connection data

Connection technology

Connection name	Inline connector

Inline connector

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

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	70 kPa ... 106 kPa
Air pressure (storage/transport)	70 kPa ... 106 kPa
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 %
Permissible humidity (storage/transport)	10 % ... 95 %

Classifications

UNSPSC

UNSPSC 21.0	32151602

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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