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Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

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Inline, Bus coupler, INTERBUS, F-SMA connector, 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. It provides the supply voltages for the connected analog modules.

Your advantages

☑ Remote bus connections using fiber optic technology

☑ Optical path diagnostics

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918894160
Weight per Piece (excluding packing)	317.100 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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

Dimensions

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
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)
Degree of protection	IP20

General

Mounting type	DIN rail
Color	green
Net weight	220 g
Note on weight specifications	with connector

Interfaces

Designation	INTERBUS
No. of channels	2
Connection method	F-SMA connector
Transmission speed	500 kbps
Transmission physics	FO
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

Network/bus system

Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 62
Number of supported branch terminals with remote bus branch	max. 15

Inline potentials

Designation	Bus coupler supply U_{BC}; 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 consumption	typ. 90 mA (without connected Inline I/O terminals)
	max. 1.35 A (with max. number of connected I/O terminal blocks)
Designation	Communications power (U_L)
Supply voltage	7.5 V DC ±5 %
Power supply unit	max. 2 A
Designation	Supply of analog modules (U_{ANA})

Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Technical data

Inline potentials

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply unit	max. 0.5 A
Designation	Service Entrance
Type of protection	Surge protection of the supply voltage
	Polarity reversal protection of the supply voltage

Electrical isolation

Test section	7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional earth ground 500 V AC 50 Hz 1 min.

Standards and Regulations

Connection in acc. with standard	CUL
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

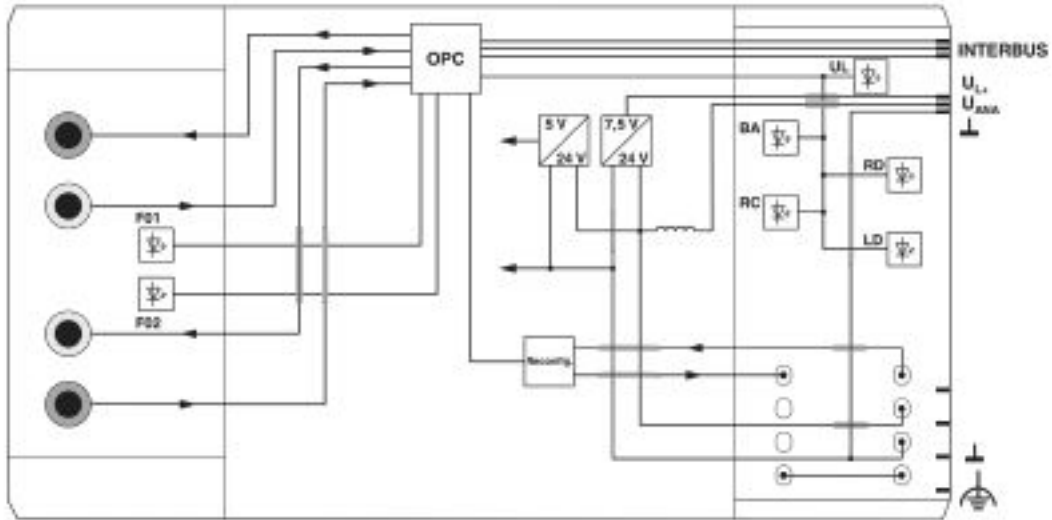|	
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

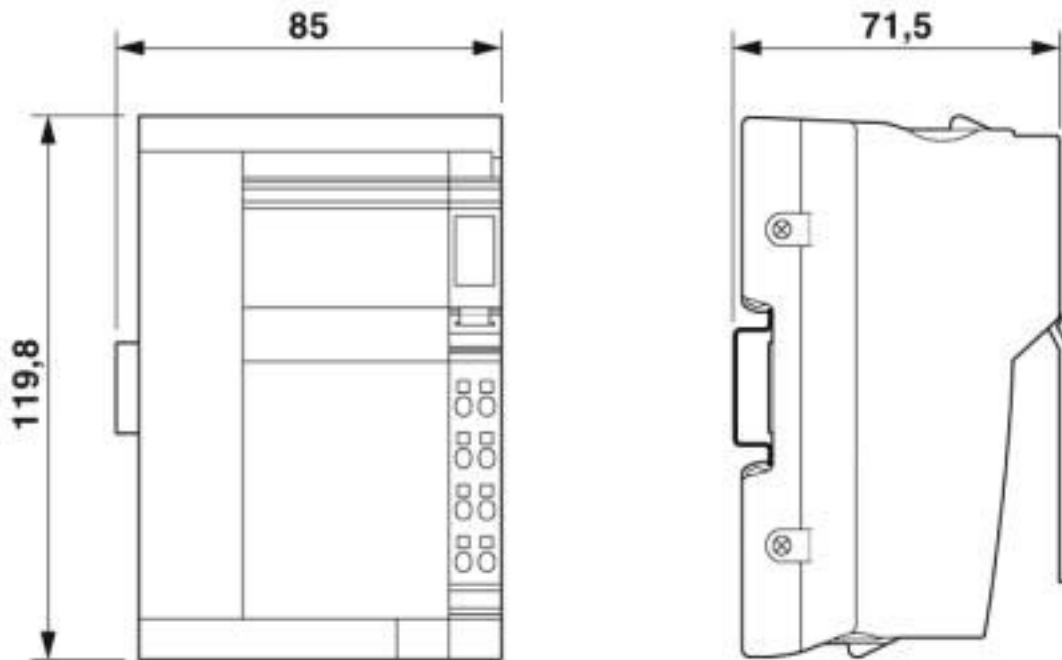# Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Connection diagram

+ 24 V DC
- (U_{BK})

FE
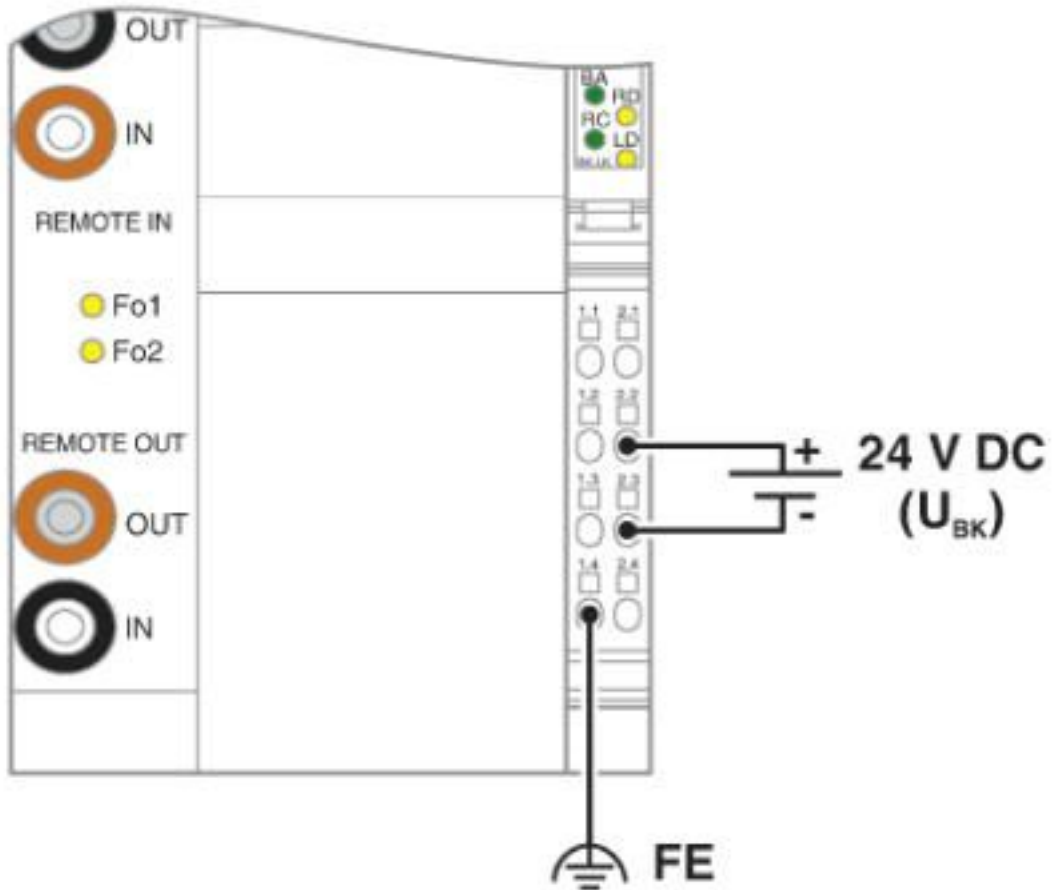
Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Block diagram

Dimensional drawing

Classifications

eCl@ss

eCl@ss 10.0.1	27242608

Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Classifications

eCl@ss

eCl@ss 4.0	27250200
eCl@ss 4.1	27250200
eCl@ss 5.0	27250200
eCl@ss 5.1	27242600
eCl@ss 6.0	27242600
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604
ETIM 7.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602
UNSPSC 18.0	32151602
UNSPSC 19.0	32151602
UNSPSC 20.0	32151602
UNSPSC 21.0	32151602

Approvals

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DNV GL / BSH / BSH / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

PHŒNIX CONTACT

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Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAA00000BN

BSH	Anwenderhinweis

BSH	658

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324

EAC		EAC-Zulassung

cULus Recognized	

Accessories

Accessories

Data cable by the meter

FO cable - PSM-LWL-RUGGED-FLEX-980/1000 - 2744335

Polymer fiber cable, duplex 980/1000 µm, heavy-weight, highly flexible version for flexible conduit applications, by the meter, without connector

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Accessories

FO cable - PSM-LWL-RUGGED-980/1000 - 2744322

Polymer fiber cable, duplex 980µm/1000µm, heavy-weight version for installation in stationary systems and machines, by the meter without male connector

FO cable - PSM-LWL-KDHEAVY-980/1000 - 2744319

Polymer fiber cable, duplex 980 µm/1000 µm, medium-weight version for installation in stationary systems and machines, by the meter without male connector

FO cable - PSM-LWL-HCSO-200/230 - 2799445

PCF cable, duplex 200/230 µm, by the meter, without connector, for outdoor installation

FO cable - PSM-LWL-HCS-RUGGED-200/230 - 2799885

PCF cable, duplex 200 µm/230 µm, by the meter without male connector, for installation in stationary systems and machines

Data cable preassembled

FO patch cable - FOC-RUGGED-FLEX-1013/IP20/... - 2901549

Highly flexible POF round cable (IP20 heads only) for use in drag chains. Individual elements made from extremely wear-resistant polyamide (PA). The cable is halogen-free, ozone and UV resistant, and has a rugged polyurethane (PUR) outer sheath.

Bus coupler - IBS IL 24 BK-LK-PAC - 2861218

Accessories

FO patch cable - FOC-RUGGED-1012/IP20/... - 2901548

Robust POF installation cable for assembly (IP20 heads only) for installation in stationary systems and machines with individual elements made of polyamide (PA), halogen-free, ozone and UV resistant, with reinforced polyurethane (PUR) outer sheath

FO patch cable - FOC-KDHEAVY-1011/IP20/... - 2901553

POF installation cable for assembly (IP20 heads only) for installation in stationary systems and machines with individual elements made of polyamide (PA), halogen-free, ozone and UV resistant, with a polyurethane (PUR) outer sheath

End block

End clamp - CLIPFIX 35 - 3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm

Plug

PHŒNIX CONTACT

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Accessories

Inline connector - IB IL SCN-8-CP - 2727608

Inline connector, colored

Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

FO connectors - PSM-SET-FSMA/4-KT - 2799720

F-SMA plug set for polymer fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

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FO connectors - PSM-SET-FSMA/4-HCS - 2799487

F-SMA plug set for PCF fiber, for self assembly consisting of 4 quick mounting connectors with bend protection sleeve

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