

Bus coupler - FL IL 24 BK-PAC - 2862314

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Ethernet bus coupler for Inline, 24 V DC, complete with accessories (plug and labeling field)



Why buy this product

- EtherNet TCP/IP™
- Up to 63 I/O terminals can be connected
- Driver software for Sun Solaris/Windows NT



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 894719
Weight per Piece (excluding packing)	339.2 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
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Dimensions

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	95 % (non-condensing)
Permissible humidity (storage/transport)	95 % (non-condensing)
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)

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Technical data

Ambient conditions

Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

General

Weight	270 g
Mounting type	DIN rail

Interfaces

Fieldbus system	Lokalbus
Name	Inline local bus
Connection method	Inline data jumper
Fieldbus system	Modbus/TCP
Name	Modbus/TCP
Connection method	RJ45 socket, auto negotiation
Transmission speed	10/100 MBit/s
Transmission physics	Copper
Name	Supply
Connection method	8-pos. Inline power connector

System limits of the bus coupler

Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 8
Number of branch terminals with remote bus branch	0

Power supply for module electronics

Connection method	Inline plugs
Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC
Ripple	Permissible ripple 3.6 V _{pp} within the permissible voltage range
Current consumption	max. 1.5 A

Inline potentials

Communications power U _L	7.5 V DC ±5 %
Power supply at U _L	max. 2 A DC (observe derating)
Main circuit supply U _M	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at U _M	max. 8 A DC (Sum of U _M + U _S)
Segment supply voltage U _S	24 V DC -15 % / +20 % (acc. to EN 61131-2)
Power supply at U _S	max. 8 A DC (Sum of U _M + U _S)
I/O supply voltage U _{ANA}	24 V DC -15 % / +20 %
Power supply at U _{ANA}	max. 0.5 A DC (observe derating)

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Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001604
ETIM 5.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / GL / DNV / ABS / GL-SW / cULus Recognized / GL

Ex Approvals

UL Listed / cUL Listed / cULus Listed


Approvals submitted

Approval details

UL Recognized

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Approvals

cUL Recognized 


GOST 

GL

DNV

ABS

GL-SW

cULus Recognized 

GL

Accessories

Accessories

Configuration and diagnostics

CD-ROM - CD FL IL 24 BK - 2832069



CD-ROM, with user documentation in PDF format, driver software and sample programs, IO configurator

Software - CONFIG+ OEM - 2700779



Config+ project license, for configuration and diagnostics of an INTERBUS system. Please enter the project number in the configuration field or get in touch with your contact person in our sales organization.

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Accessories

Software - CONFIG+ DEMO - 2868046



Config+ demo version with restricted range of function (it is not possible to save projects)

Software - CONFIG+ - 2868059



Config+ full version for configuration and diagnostics of an INTERBUS system

Software - CONFIG+ CPY - 2868062



Config+ copy license makes it possible to install the Config+ software several times. A Config+ full version is necessary as well. When ordering, please state the number of licenses you need.

Connector set

RJ45 connector - FL PLUG RJ45 GR/2 - 2744856



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, gray for straight cables, for assembly on site. For connections that are not crossed, it is recommended that you use the connector set with gray bend protection sleeve.

RJ45 connector - FL PLUG RJ45 GN/2 - 2744571



RJ45 connector, shielded, with bend protection sleeve, 2 pieces, green for crossed cables, for assembly on site. For connections that are crossed, it is recommended that the connector set with green bend protection sleeves is used.

Data cable by the meter

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Accessories

Cable - FL CAT5 HEAVY - 2744814



CAT5-SF/UTP cable (J-02YS(ST)C HP 2 x 2 x 24 AWG), heavy-duty installation cable, 2 x 2 x 0.22 mm², solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm ± 0.15 mm diameter

Network cable - FL CAT5 FLEX - 2744830



CAT5-SF/UTP cable (J-LI02YS(ST)C H 2 x 2 x 26 AWG), light-duty, flexible installation cable 2 x 2 x 0.14 mm², stranded, shielded, outer sheath: 5.75 mm ± 0.15 mm diameter

Drivers and interfaces

Software - IBS OPC SERVER - 2729127



INTERBUS OPC server, communication interface between distributed INTERBUS and Ethernet networks and visualizations.

End block

End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Network management software

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Accessories

Software - FL SWT - 2831044



Factory Manager, multilingual, configuration and diagnostics software for ETHERNET networks in automation

Plug

Inline plug - 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, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

Universal tools

Assembly tool - FL CRIMPTOOL - 2744869



Crimping pliers, for assembling the RJ45 plugs FL PLUG RJ45..., for assembly on site

Software - IPASSIGN - 2701094

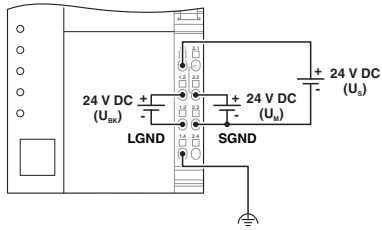


IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign. With a simple selection, you can filter out all of the devices except those from Phoenix Contact.

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Drawings

Connection diagram



Dimensioned drawing

