

2861580

https://www.phoenixcontact.com/in/products/2861580

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Inline, Bus coupler, INTERBUS, Inline shield connector, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connectors and marking fields

Product Description

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

Your advantages

- · Remote bus connections using copper technology
- An Inline station can be supplied with all of the required 24 V voltages for low-level signals
- · Automatic configuration of the outgoing interface as a remote bus or local bus interface
- Up to 15 connected terminals with remote bus branch supported
- · Electrical isolation of the remote bus segments

Commercial Data

Item number	2861580
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI
Product Key	DRI111
Catalog Page	Page 107 (C-6-2019)
GTIN	4017918894436
Weight per Piece (including packing)	275.2 g
Weight per Piece (excluding packing)	214 g
Customs tariff number	85389099
Country of origin	DE



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Technical Data

Dimensions

Dimensional drawing	135 119,0 3000 0 0 0 0
Width	48.8 mm
Height	135 mm
Depth	71.5 mm

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Material specifications

Color	green
00101	green

Interfaces

INTERBUS

Number of interfaces	2
Connection method	Inline shield connector
Transmission speed	500 kbps
Transmission physics	Copper

Remote bus branch / Inline local bus

Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps

System properties

System limits

Number of supported devices	max. 63
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

Module	
ID code (dec.)	04
ID code (hex)	04
Length code (hex)	00



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Length code (dec)	00
Process data channel	0 bit
Input address area	0 bit
Output address area	0 bit
Register length	0 bit
oduct properties	
Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connectors and marking fields
Diagnostics messages	I/O error yes, if the segment voltage \mathbf{U}_{S} is not present
nsulation characteristics	
Overvoltage category	II (IEC 60664-1, EN 60664-1)
Pollution degree	2 (IEC 60664-1, EN 60664-1)
ectrical properties	
Maximum power dissipation for nominal condition	30 W
Protective circuit	Short-circuit protection of the communications power; electronic
	Short-circuit protection of the analog supply; electronic
	Surge protection (segment supply, main supply, bus coupler supply); Input protective diodes (can be destroyed by permane overload)Pulse loads up to 1500 W are short circuited by the input protective diode.
	Protection against polarity reversal (segment supply/main supply); Parallel diodes for protection against polarity reversal; the event of an error the high current flowing through the diode causes the fuse connected upstream to blow.
	Protection against polarity reversal (bus coupler supply); Serial diode in the lead path of the power supply unit; in the event of a error only a low current flows. In the event of an error, no fuse trips within the external power supply unit.
Potentials: Bus coupler supply U _{BK} ; Communications power coupler supply.	er $\rm U_L$ (7.5 V) and the analog supply $\rm U_{ANA}$ (24 V) are generated from the bus
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 block
	typ. 100 mA (without connected I/O terminal blocks)
Potentials: Communications power (U _L)	
Supply voltage	7.5 V DC
Potentials: Supply of analog modules (U _{ANA})	
	24 V DC
Supply voltage	24 1 00



Mounting type

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Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
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otentials: Segment circuit supply (U _S)	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple
nnection data	
connection technology	
Connection name	Inline connector
conductor connection	
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
nline 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
vironmental and real-life conditions	
mbient conditions	
Ambient temperature (operation)	_25 °C
Ambient temperature (operation)	-25 °C 55 °C
Degree of protection	IP20
Degree of protection Air pressure (operation)	IP20 70 kPa 106 kPa (up to 3000 m above sea level)
Degree of protection Air pressure (operation) Air pressure (storage/transport)	IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level)
Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport)	IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C
Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation)	IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C 10 % 95 % (non-condensing)
Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation) Permissible humidity (storage/transport)	IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C
Degree of protection Air pressure (operation) Air pressure (storage/transport) Ambient temperature (storage/transport) Permissible humidity (operation)	IP20 70 kPa 106 kPa (up to 3000 m above sea level) 70 kPa 106 kPa (up to 3000 m above sea level) -25 °C 85 °C 10 % 95 % (non-condensing)

DIN rail mounting

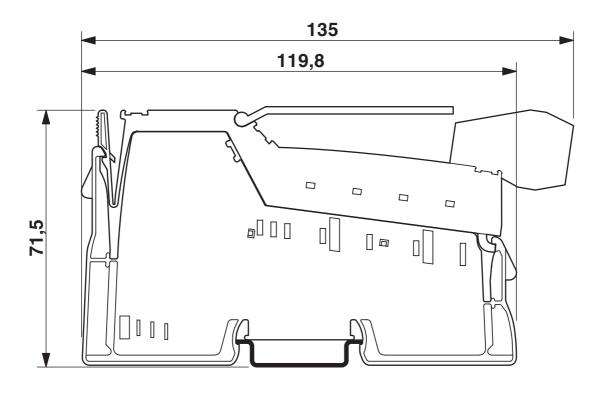


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Drawings

Dimensional drawing

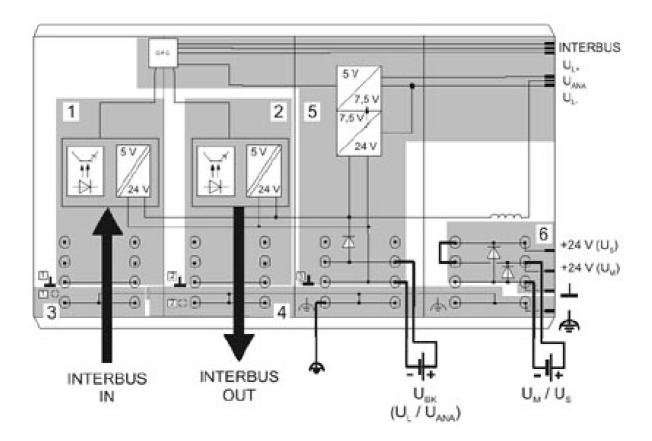




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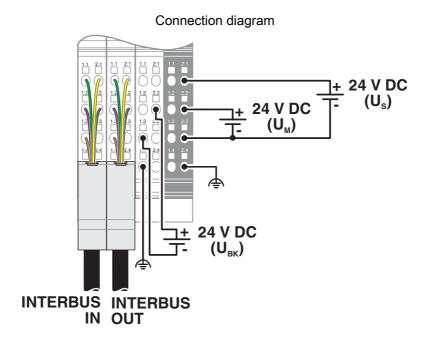
Block diagram





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Approvals



UL Recognized

Approval ID: FILE E 140324



EAC

Approval ID: TR TS_S_03508-21



DNV GL

Approval ID: TAA00001KV



LR

Approval ID: LR22191720TA



UL Recognized

Approval ID: FILE E 140324



ΒV

Approval ID: 20977/C0 BV



RINA

Approval ID: ELE121121XG



BV

Approval ID: 20977/C0 BV



DNV GL

Approval ID: TAA00001KV



RINA

Approval ID: ELE121121XG



LR

Approval ID: LR22191720TA



ATEX

Approval ID: PxCIF07ATEX2861580X



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ATEX
Approval ID: PxCIF07ATEX2861580X

Approval ID: FILE E 199827

cUL Listed



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27242608
	ECLASS-12.0	27242608
	ECLASS-13.0	27242608
ETI	М	
	ETIM 8.0	EC001604
UNS	SPSC	

32151600



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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values



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Accessories

IB IL FIELD 2 - Labeling field

2727501

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Labeling field, width: 12.2 mm



IB IL FIELD 8 - Labeling field

2727515

https://www.phoenixcontact.com/in/products/2727515

Labeling field, width: 48.8 mm





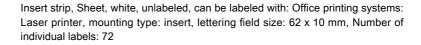
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ESL 62X10 - Insert strip

0809492

https://www.phoenixcontact.com/in/products/0809492





ESL 62X46 - Insert strip

0809502

https://www.phoenixcontact.com/in/products/0809502

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 46 mm, Number of individual labels: 15





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CLIPFIX 35-5 - End clamp

3022276

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Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

E/UK - End clamp

1201442

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End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35



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IBS RBC METER-T - Remote bus cable

2806286

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By the meter, Remote bus cable, INTERBUS, shielded, PVC, may green RAL 6017, 6-wire ($3 \times 2 \times 0.22 \text{ mm}^2$), color single wire: green-yellow, white-brown, gray-pink, fixed installation

IBS RBC METER/F-T - Remote bus cable

2723123

https://www.phoenixcontact.com/in/products/2723123



By the meter, Remote bus cable, INTERBUS, shielded, PUR halogen-free, may green RAL 6017, 6-wire (3 x 2 x $0.22~\text{mm}^2$), color single wire: green-yellow, white-brown, gray-pink, flexible installation

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