2702507

https://www.phoenixcontact.com/in/products/2702507



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Inline, Bus coupler, EtherCAT<sup>®</sup>, RJ45 jack, transmission speed in the local bus: 500 kbps / 2 Mbps, degree of protection: IP20, including Inline connector and labeling field

## **Product Description**

The bus coupler is intended for use within an EtherCAT<sup>®</sup> network and represents the link to the Inline I/O system. Up to 63 Inline devices can be connected to the bus coupler. EtherCAT<sup>®</sup> is a registered trademark and patented technology, licensed by Beckhoff Auotmation GmbH, Germany. A corresponding ESI file is available for integrating the Inline station into the programming system. This file can be downloaded via the product at phoenixcontact.net/products.

## Your advantages

- · 2 RJ45 connections
- · Automatic addressing
- Station mapped as a modular EtherCAT<sup>®</sup> device using a modular device profile (MDP)
- Acyclic data communication (mailbox protocols)
- SafetyBridge V3 supported
- · Firmware can be updated

## **Commercial Data**

Item number	2702507
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	DRI
Product Key	DRI11E
Catalog Page	Page 102 (C-6-2019)
GTIN	4055626258683
Weight per Piece (including packing)	178 g
Weight per Piece (excluding packing)	168 g
Customs tariff number	85176200
Country of origin	DE

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## **Technical Data**

## Dimensions

Dimensional drawing	veri veri	
Width	40 mm	
Height	119.4 mm	
Depth	71.5 mm	
Note on dimensions	Housing dir	nensions
Material specifications		

## Color green

### Interfaces

EtherCAT <sup>®</sup>
EtherCAT

Connection method	RJ45 jack
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	100 Mbps (Full duplex)
Transmission physics	Ethernet in RJ45 twisted pair
nline local bus	
Number of interfaces	1
Connection method	Inline data jumper
Transmission speed	500 kbps / 2 Mbps (automatic detection, no combined system)
therCAT <sup>®</sup>	
System-specific protocols	Mailbox protocols CAN application protocol over EtherCAT <sup>®</sup>
	Mailbox protocols File access over EtherCAT <sup>®</sup>
Specification	ETG.1000 V1.02

## System properties

Number of supported devices	max. 63 (per station)
Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	max. 16
Number of supported branch terminals with remote bus branch	0

ID code	(hex)
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none

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## Product properties

Туре	modular
Product type	I/O component
Product family	Inline
Scope of delivery	including Inline connector and labeling field
Diagnostics messages	Messages via object 10F3 <sub>hex</sub> Diagnosis history

## Electrical properties

Power consumption	typ. 1.7 W (entire device)	
Potentials: Bus coupler supply U <sub>BK</sub> ; Communications powe oupler supply.	er U_L (7.5 V) and the analog supply 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. 0.9 A (with max. number of connected I/O terminal blocks)	
	typ. 70.6 mA (No local bus devices connected)	
Potentials: Communications power (UL)		
Supply voltage	7.5 V DC	
Potentials: Supply of analog modules (U <sub>ANA</sub> )		
Supply voltage	24 V DC	

Supply voltage range

Potentials: Main circuit supply (U <sub>M</sub> )	
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC 30 V DC (including all tolerances, including ripple)
Potentials: Segment circuit supply (U <sub>S</sub> )	
Supply voltage	24 V DC (via Inline connector)

19.2 V DC ... 30 V DC (including all tolerances, including ripple)

### Connection data

Connection name	Inline connector
Conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 16
Stripping length	8 mm
Inline connector	
Connection method	Spring-cage connection

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Conductor cross section, rigid	0.08 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section, flexible	0.08 mm² 1.5 mm²

28 ... 16

8 mm

Environmental	and	real-life	conditions
	anu		Contaitions

Conductor cross section AWG

Stripping length

Ambient conditions		
Ambient temperature (operation)	-25 °C 55 °C	
Degree of protection	IP20	
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)	
Ambient temperature (storage/transport)	-40 °C 85 °C	
Permissible humidity (operation)	10 % 95 % (non-condensing)	
Permissible humidity (storage/transport)	10 % 95 % (non-condensing)	

### Standards and regulations

Protection class

III (IEC 61140, EN 61140, VDE 0140-1)

#### Mounting

Mounting type

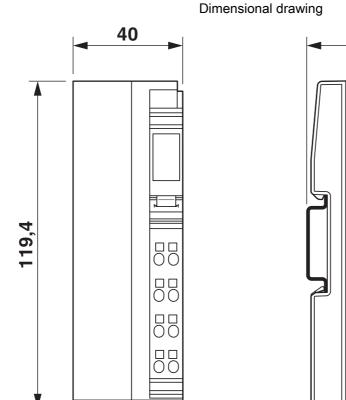
DIN rail mounting

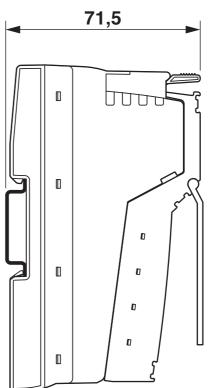
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## Drawings

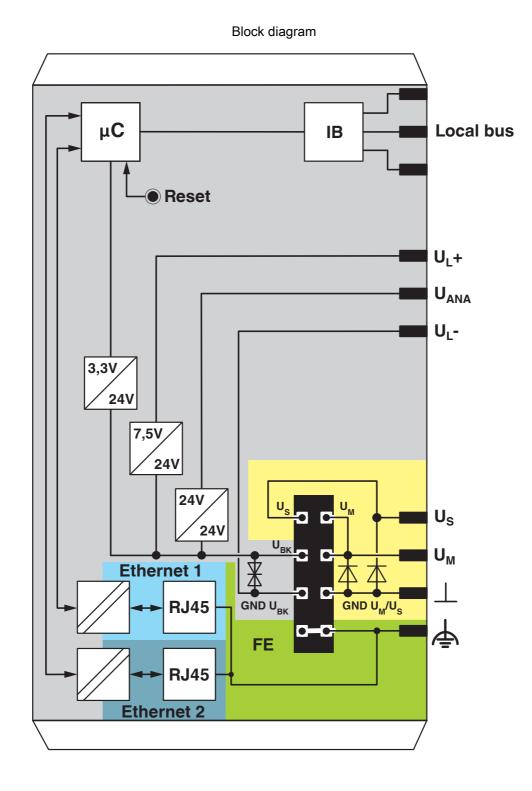




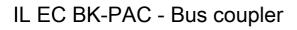


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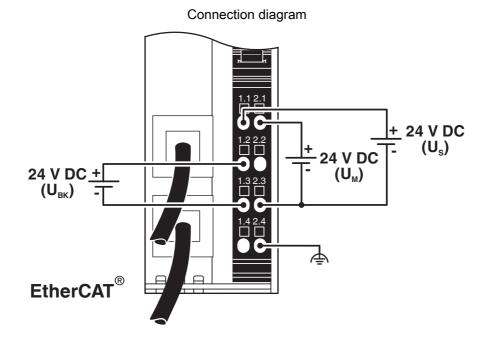


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## Approvals



UL Listed Approval ID: FILE E 238705



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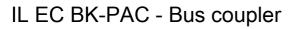
## Classifications

## ECLASS

ECLASS-11.0	27242608
ECLASS-12.0	27242608
ECLASS-13.0	27242608

## ETIM

	ETIM 8.0	EC001604	
UNSPSC			
	UNSPSC 21.0	32151600	



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## **Environmental Product Compliance**

**REACh SVHC** 

Lead 7439-92-1

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Accessories

IB IL FIELD 2 - Labeling field

2727501 https://www.phoenixcontact.com/in/products/2727501

Labeling field, width: 12.2 mm



## ESL 62X10 - Insert strip

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

Laser printer, mounting type: insert, lettering field size: 62 x 10 mm, Number of individual labels: 72

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems:



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CLIPFIX 35-5 - End clamp

#### 3022276

https://www.phoenixcontact.com/in/products/3022276



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

### CLIPFIX 35 - End clamp

3022218 https://www.phoenixcontact.com/in/products/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  $\,$ 

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## FL PLUG RJ45 GR/2 - RJ45 connector

#### 2744856

https://www.phoenixcontact.com/in/products/2744856



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

## FL PLUG RJ45 GN/2 - RJ45 connector

2744571 https://www.phoenixcontact.com/in/products/2744571



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: Crimp connection, cable outlet: straight, color: green, Ethernet

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## FL CAT5 HEAVY - Data cable

#### 2744814

https://www.phoenixcontact.com/in/products/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 mm<sup>2</sup>, solid conductor, shielded, outer sheath: 7.8 mm diameter, inner sheath: 5.75 mm  $\pm$  0.15 mm diameter

#### FL CAT5 FLEX - Installation cable

2744830 https://www.phoenixcontact.com/in/products/2744830



By the meter, Installation cable, Ethernet CAT5 (100 Mbps), shielded, PUR halogen-free, water blue RAL 5021, 4-wire (2x2xAWG26/7; SF/UTP), color single wire: white/orange-orange, white/green-green, cable length: Free entry (1. 0 ... 1000.0 m)

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### FL CRIMPTOOL - Assembly tool

#### 2744869

https://www.phoenixcontact.com/in/products/2744869

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



### D-LAN-CAT.5-FP - Surge protection device

2800723 https://www.phoenixcontact.com/in/products/2800723



Fine surge protection for data networks up to 1 Gbps. For use in Ethernet, Power over Ethernet (PoE, mode A and mode B), token ring, ISDN, and DS1. RJ45 attachment plug with separate grounding cable and snap-on foot for NS 35 DIN rails.

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