

# IBS 24 ETH DSC/I-T - Interface converters



2722920

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INTERBUS Ethernet coupler, Generation 4, with electrical isolation

## Product description

Termination board for connecting INTERBUS and Ethernet networks

Ethernet (IEEE 802.3) is the worldwide standard for networking PCs, workstations and other computers. In automation technology, Ethernet is the factory and plant-wide infrastructure for general communication tasks.

INTERBUS allows all field devices, from sensors to robots to industrial controllers, to be linked in one single network. INTERBUS provides optimum conditions for directly integrating field data in a higher-level Ethernet network.

The INTERBUS Ethernet coupler IBS 24 ETH DSC/I-T makes it possible to directly connect an INTERBUS system with its wide range of I/O modules and intelligent field devices to an Ethernet network. The integrated gateway function of the termination board ensures a direct, effective exchange of data between the Ethernet and the INTERBUS field devices. In this way, one or more computers in the Ethernet can flexibly access the data of the INTERBUS field devices.

The INTERBUS Ethernet coupler is the universal INTERBUS termination board for all computer and control systems that provide an access via Ethernet with the TCP/IP protocol. It also links applications on SUN, HP and DEC work stations as well as on Windows NT platforms. The standardized transport protocol TCP/IP is known worldwide and is available for all computer architectures and operating systems. Powerful workstations and Windows NT platforms obtain access to processes via the connected INTERBUS input/output modules and field devices and can take on automation functions. The INTERBUS Ethernet coupler is a compact, effective data concentrator in the Ethernet network and allows innovative communication solutions within process control and material flow systems, as well as for production data acquisition and quality assurance.

## Commercial data

Item number	2722920
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DRECAC
GTIN	4017918141233
Weight per piece (including packing)	1,878 g
Weight per piece (excluding packing)	1,878 g
Customs tariff number	85389091
Country of origin	DE

## Technical data

### Product properties

Type	Stand-alone
Set comprises	2724148 IBS 24 ETH DSC SYSKIT E
	2724135 IBS 24 ETH DSC SYSKIT

### System properties

#### INTERBUS-Master

Amount of process data	4096 Byte
Number of devices with parameter channel	max. 126 (512 words)

#### Local diagnostics

Designation	LINK, RECEIVE, TRANSMIT
Monitored function	Higher-level network
Optical representation	Status display via LED

#### System requirements

Configuration tool	CMD from version 4.5x
Diagnostics tool	DIAG+ from version 1.14

### Electrical properties

Local diagnostics	LINK, RECEIVE, TRANSMIT Higher-level network Status display via LED
	FCRUN, FCDBG IEC 61131 runtime system LCD arrows: FCRUN, FCDBG
	INTERBUS Via four-line LCD
Transmission medium	Copper

#### Supply

Supply voltage	5 V DC
Supply voltage range	20 V DC ... 30 V DC (including ripple)
Power supply connection	DFK screw terminal block
Max. current consumption	1.7 A (at 20 V)

### Interfaces

#### INTERBUS remote bus

Connection method	9-pos. D-SUB female connector (optionally optical fiber possible via interface converters) with electrical isolation
Transmission length	165 mm

#### Parameterization/operation/diagnostics

Connection method	RS-232-C, D-SUB 9-pos. male connector
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#### Host system

Connection method	Computer and control systems via Ethernet with TCP/IP protocol
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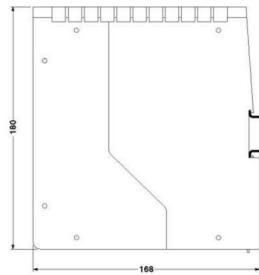
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and sockets interface, direct twisted pair connection (10BASE-T) via RJ45 and medium-independent AUI interface, 15-pos. socket (to be connected to Ethernet transceiver via drop cable)

## Dimensions

Dimensional drawing



Width	135 mm
Height	165 mm
Depth	170 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	75 % (non-condensing)

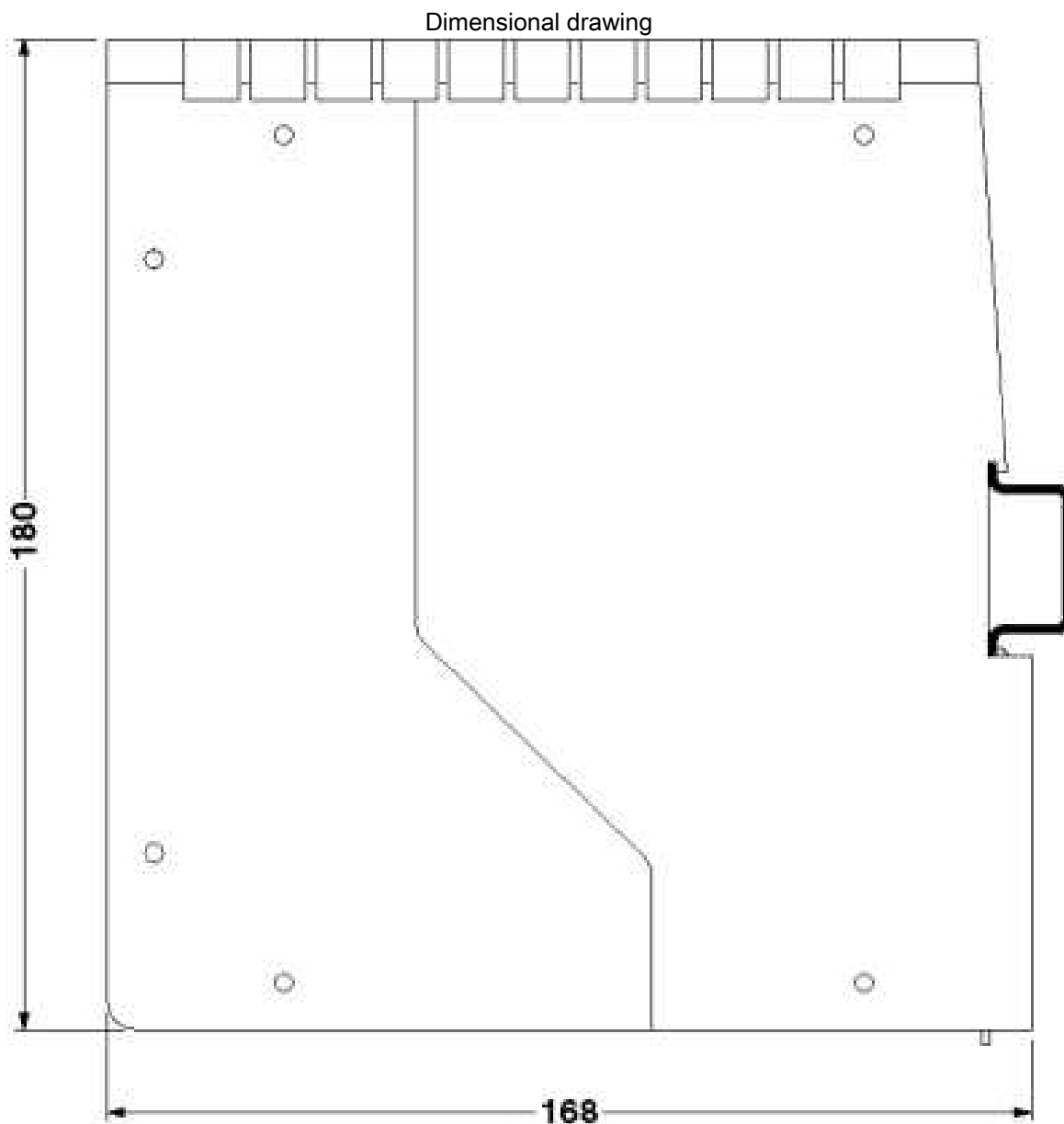
## Mounting

Mounting type	DIN rail mounting
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## Drawings



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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(a)-I, 6(c), 7(a), 7(c)-I

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)