

Промышленная связь, шинные соединители

Технические характеристики

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Ставрополь (8652)20-65-13
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Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
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Technical data sheet

PROFINET Bus coupler

PROFINET Bus coupler for LCOS-CC-I and LOCC-Box-Net



Identification

Type	LCOS-BC-PN
Part No.	778000.1301

Product version

Hardware revision	1.1
Software version	1.5
Datasheet version	04

Description

Description	NOTICE: It is mandatory to order a corresponding LCOS function carrier with power supply (FTE) for the bus coupler. 1. if this PROFINET bus coupler (778000.1301) is to control an LCOS CCI system: FTE 3-pole: 780713.575.1 (operating voltage: max. DC 48V), FTE 3-pole: 780731.575.1 (operating voltage: AC 230V), FTE 5-pole: 780732.575.1 (operating voltage: AC 500V). 2. if the bus coupler is to control a LOCC-Box Net system, there is a special FTE BC: 780714.575.1 At the end of this data sheet there is an overview drawing with all part numbers of the LCOS FTE function carriers.
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Field bus connection

Fieldbus/Network systems	PROFINET RT acc. to IEC 61158-5-10
BUS physics	Ethernet
Interface mechanical	2 × Square connector 10-pin
Transfer rate	100 Mbit/s

Technical data sheet

PROFINET Bus coupler

Transmission standard	IEEE 802.3, 100 Base-Tx
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Communication assemblies

BUS physics	CANopen acc. to ISO 11898-1
Bus termination	120 Ω internal
BUS participants	Max. 64 functional assemblies
BUS topology	Line

Communication external LOCC-boxes

BUS physics	LIN
Bus termination	1 K internal
BUS participants	Max. 64 functional assemblies
BUS topology	Line
Interface mechanical	Plug-in spring terminal 3-pin, 0.2 – 2.5 mm ² (AWG 24 – AWG 12)
Interface electrical	Galvanically separated

Communication web server

BUS physics	Ethernet acc. to IEEE 802.3 100 Base-Tx
Transfer rate	100 Mbit/s
Interface mechanical	RJ45 bush with galvanic isolation 1.5 kV

communication LOCC-PADS

BUS physics	USB specification 2.0
Transfer rate	480 Mbit/s (USB High Speed)
Interface mechanical	Micro USB

Status indication

Status display	Power: red/green Maintenance: yellow Force: red/green FB-Error: red/green Status: red/green
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General

Rated voltage	24 V
Nominal voltage range	DC 18 V – 31.2 V
Rated current	Max. 240 mA via function carrier with feed (FTE)
Power consumption	< 5 W
Protection device	Reverse diode
Insulation voltage input / output	AC 1.5 kV _{eff}
Installation position	Any
MTBF	2196952 h
Cooling	Air convection
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)

Technical data sheet

PROFINET Bus coupler

Color of the housing	RAL 7012 Basalt grey
Mounting	Pluggable On function carrier with feed (FTE) 780714.575.1 57.5 mm (Accessories)
LOCC-Bus (transfer rate)	9600 kbit/s
LCOS-Bus (transfer rate)	1 Mbit/s
Max. altitude operation	2000 m
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 102.0 mm × 120.0 mm
Weight/unit	0.25 kg
PU (units)	1

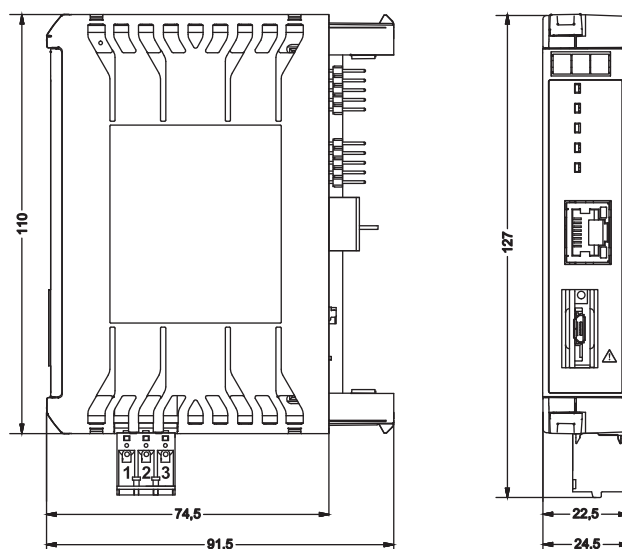
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-25 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 UL 61010-1 UL 61010-2-201 DNV-CG-0339

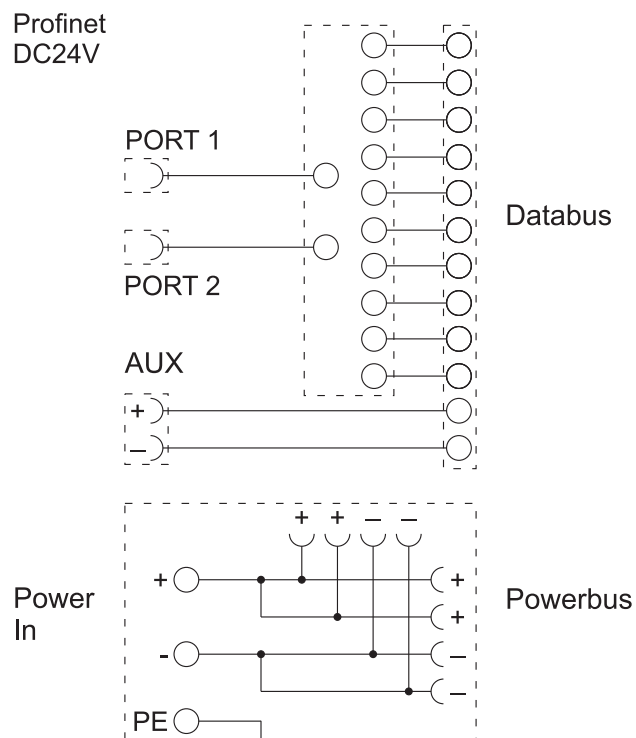
Dimensions



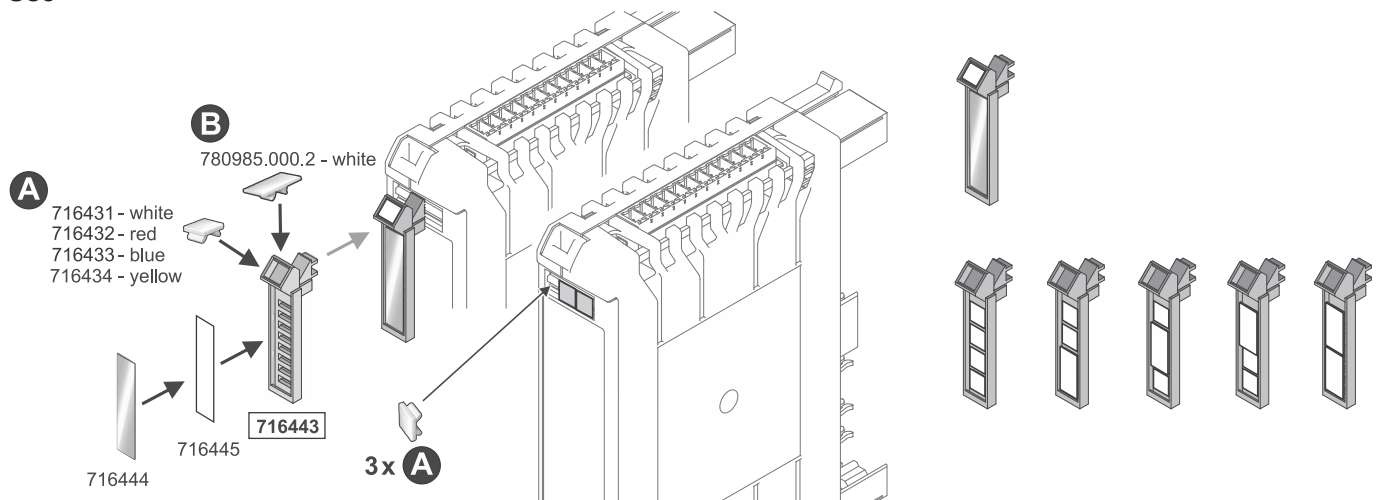
Technical data sheet

PROFINET Bus coupler

PIN assignment



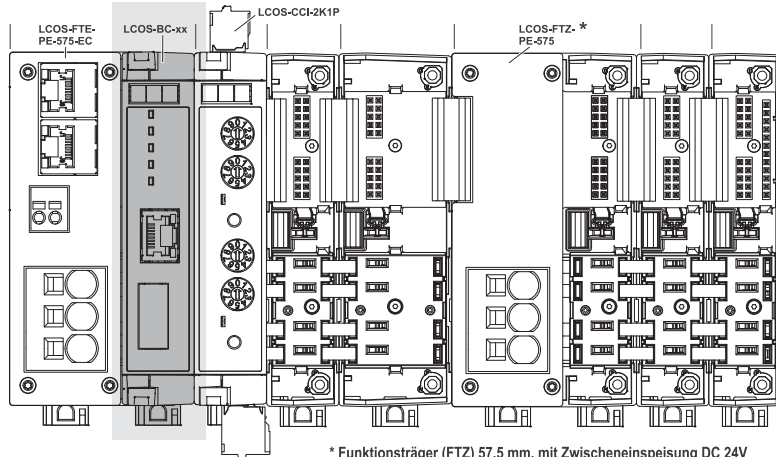
Use



Technical data sheet

PROFINET Bus coupler

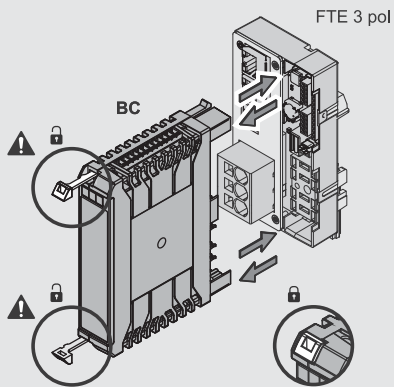
Use



* Funktionsträger (FTZ) 57,5 mm, mit Zwischeneinspeisung DC 24V
 * Function carrier (FTZ) 57,5 mm, with intermediate supply DC 24V
 * Support de fonction (FTZ) 57,5 mm, avec alimentation intermédiaire DC 24V

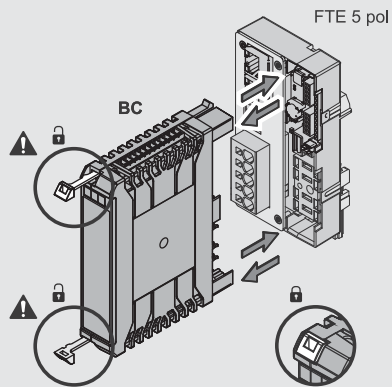
Use

LCOS CCI system



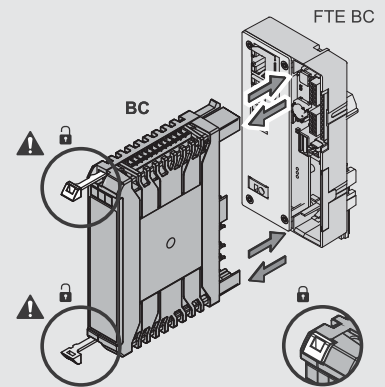
max. DC 48V
780713.575.1 LCOS-FTE-PE-575-UN-00-1-L

AC230V
780731.575.1 LCOS-FTE-PE-575-PN-01-1-L
780741.575.1 LCOS-FTE-PE-575-EC-01-1-L
780771.575.1 LCOS-FTE-PE-575-ETIP-01-1-L



AC500V
780732.575.1 LCOS-FTE-PE-575-PN-02-1-L
780742.575.1 LCOS-FTE-PE-575-EC-02-1-L
780772.575.1 LCOS-FTE-PE-575-ETIP-02-1-L

LOCC-Box Net system



780714.575.1 LCOS-FTE-PE-575-UN-04-1-L

Technical data sheet
EtherCAT Bus coupler

EtherCAT Bus coupler for LCOS-CC-I and LOCC-Box-Net



Identification

Type	LCOS-BC-EC
Part No.	778000.1401

Product version

Hardware revision	1.1
Software version	2.1
Datasheet version	03

Description

Description	NOTICE: It is mandatory to order a corresponding LCOS function carrier with power supply (FTE) for the bus coupler. 1. if this EtherCAT bus coupler (778000.1401) is to control an LCOS CCI system: FTE 3-pole: 780713.575.1 (operating voltage: max. DC 48V), FTE 3-pole: 780741.575.1 (operating voltage: AC 230V), FTE 5-pole: 780742.575.1 (operating voltage: AC 500V). 2. if the bus coupler is to control a LOCC-Box Net system, there is a special FTE BC: 780714.575.1 At the end of this data sheet there is an overview drawing with all part numbers of the LCOS FTE function carriers.
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Field bus connection

Fieldbus/Network systems	EtherCAT Slave acc. to ETG.1300
BUS physics	Ethernet
Interface mechanical	2 × Square connector 10-pin
Transfer rate	100 Mbit/s

Technical data sheet

EtherCAT Bus coupler

Transmission standard	IEEE 802.3, 100 Base-Tx
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Communication assemblies

BUS physics	CANopen acc. to ISO 11898-1
Bus termination	120 Ω internal
BUS participants	Max. 64 functional assemblies
BUS topology	Line

Communication external LOCC-boxes

BUS physics	LIN
Bus termination	1 K internal
BUS participants	Max. 64 functional assemblies
BUS topology	Line
Interface mechanical	Plug-in spring terminal 3-pin, 0.2 – 2.5 mm ² (AWG 24 – AWG 12)
Interface electrical	Galvanically separated

Communication web server

BUS physics	Ethernet acc. to IEEE 802.3 100 Base-Tx
Transfer rate	100 Mbit/s
Interface mechanical	RJ45 bush with galvanic isolation 1.5 kV

communication LOCC-PADS

BUS physics	USB specification 2.0
Transfer rate	480 Mbit/s (USB High Speed)
Interface mechanical	Micro USB

Status indication

Status display	Power: red/green Maintenance: yellow RUN: red/green FB-Error: red/green Status: red/green
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General

Rated voltage	24 V
Nominal voltage range	DC 18 V – 31.2 V
Rated current	Max. 240 mA via function carrier with feed (FTE)
Power consumption	< 5 W
Protection device	Reverse diode
Insulation voltage input / output	AC 1.5 kV _{eff}
Installation position	Any
MTBF	2196952 h
Cooling	Air convection
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)

Technical data sheet

EtherCAT Bus coupler

Color of the housing	RAL 7012 Basalt grey
Mounting	Pluggable On function carrier with feed (FTE) 780714.575.1 57.5 mm (Accessories)
LOCC-Bus (transfer rate)	9600 kbit/s
LCOS-Bus (transfer rate)	1 Mbit/s
Max. altitude operation	2000 m
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 102.0 mm × 120.0 mm
Weight/unit	0.25 kg
PU (units)	1

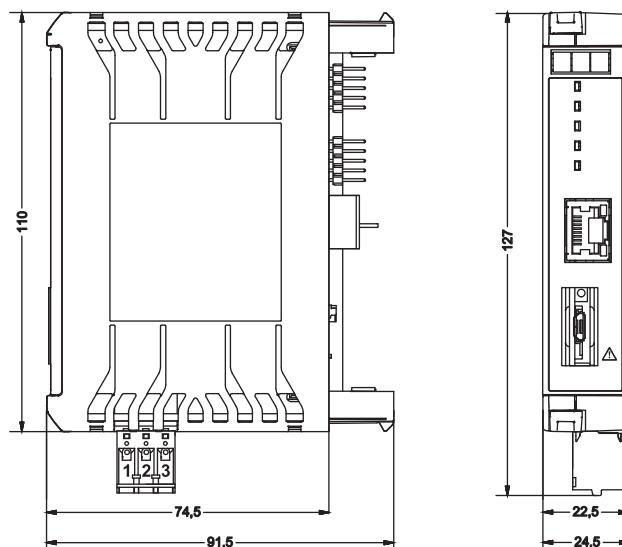
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-25 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 UL 61010-1 UL 61010-2-201 DNV-CG-0339

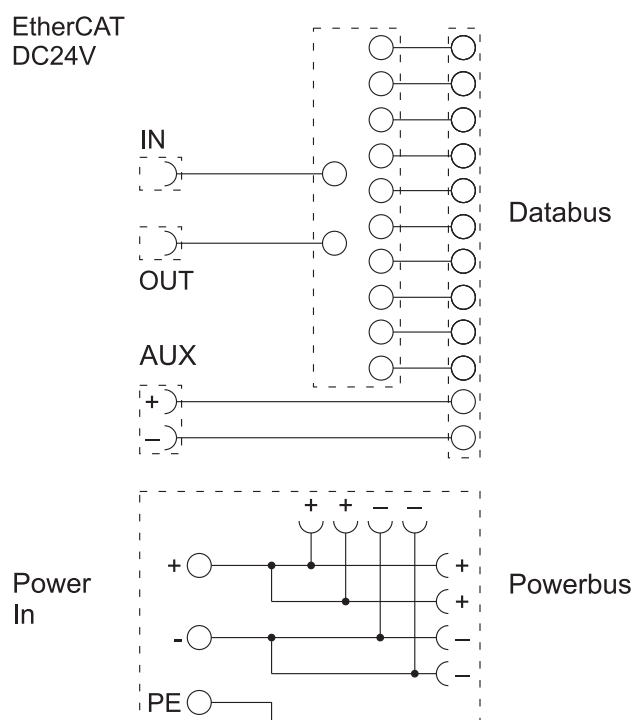
Dimensions



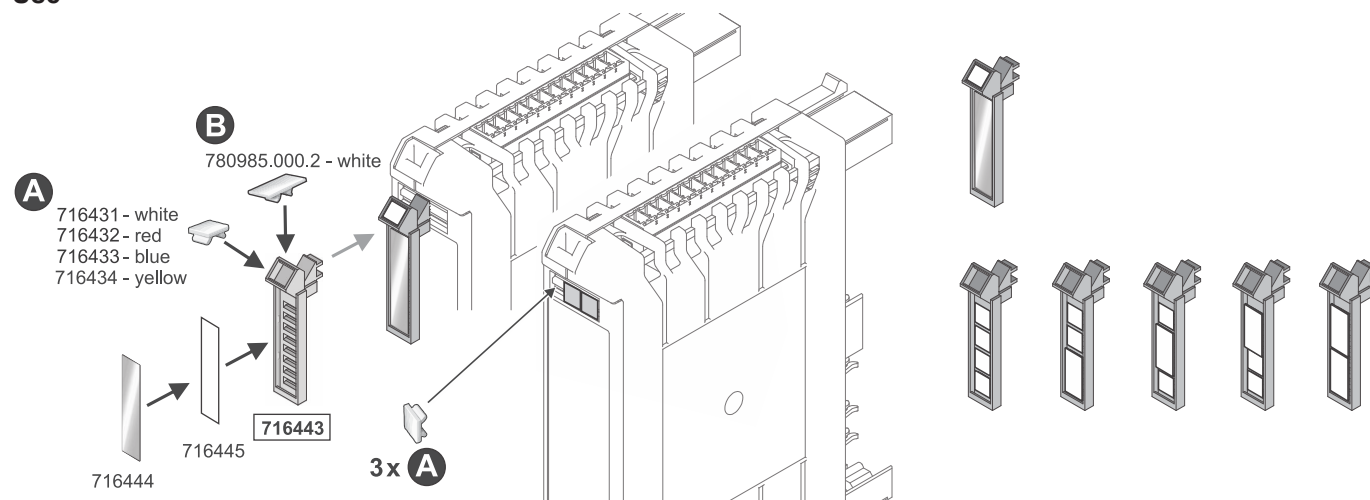
Technical data sheet

EtherCAT Bus coupler

PIN assignment



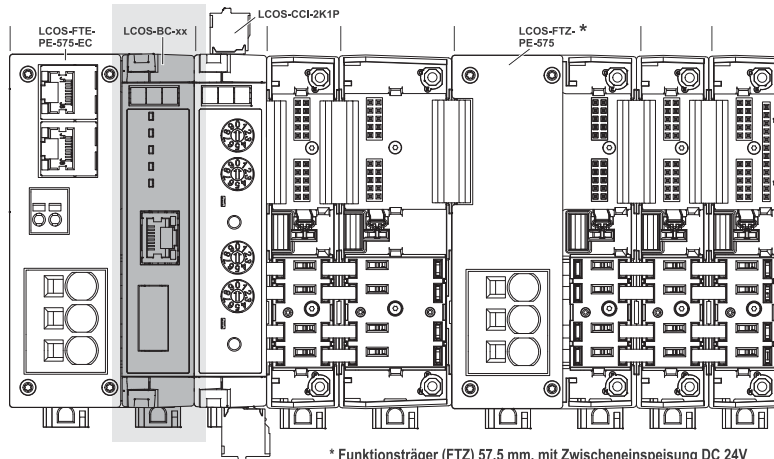
Use



Technical data sheet

EtherCAT Bus coupler

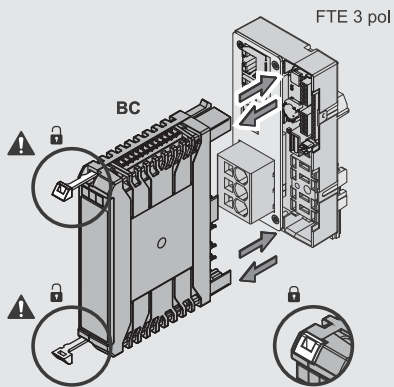
Use



* Funktionsträger (FTZ) 57,5 mm, mit Zwischeneinspeisung DC 24V
 * Function carrier (FTZ) 57,5 mm, with intermediate supply DC 24V
 * Support de fonction (FTZ) 57,5 mm, avec alimentation intermédiaire DC 24V

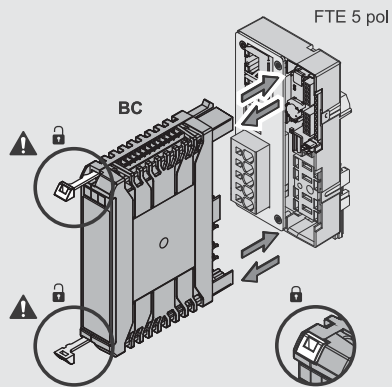
Use

LCOS CCI system



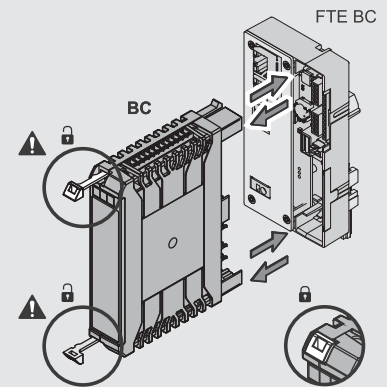
max. DC 48V
780713.575.1 LCOS-FTE-PE-575-UN-00-1-L

AC230V
780731.575.1 LCOS-FTE-PE-575-PN-01-1-L
780741.575.1 LCOS-FTE-PE-575-EC-01-1-L
780771.575.1 LCOS-FTE-PE-575-ETIP-01-1-L



AC500V
780732.575.1 LCOS-FTE-PE-575-PN-02-1-L
780742.575.1 LCOS-FTE-PE-575-EC-02-1-L
780772.575.1 LCOS-FTE-PE-575-ETIP-02-1-L

LOCC-Box Net system



780714.575.1 LCOS-FTE-PE-575-UN-04-1-L

Technical data sheet

Ethernet-IP Bus coupler

Ethernet-IP Bus coupler for LCOS-C-CI and LOCC-Box-Net



Identification

Type	LCOS-BC-ETIP
Part No.	778000.1701

Product version

Hardware revision	1.1
Software version	2.1
Datasheet version	03

Description

Description	NOTICE: It is mandatory to order a corresponding LCOS function carrier with power supply (FTE) for the bus coupler. 1. if this EtherNet/IP bus coupler (778000.1701) is to control an LCOS CCI system: FTE 3-pole: 780713.575.1 (operating voltage: max. DC 48V), FTE 3-pole: 780771.575.1 (operating voltage: AC 230V), FTE 5-pole: 780772.575.1 (operating voltage: AC 500V). 2. if the bus coupler is to control a LOCC-Box Net system, there is a special FTE BC: 780714.575.1 At the end of this data sheet there is an overview drawing with all part numbers of the LCOS FTE function carriers.
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Field bus connection

Fieldbus/Network systems	Ethernet Industrial Protocol (EtherNet/IP) acc. to IEC 61158
BUS physics	Ethernet
Interface mechanical	2 × Square connector 10-pin
Transfer rate	100 Mbit/s

Technical data sheet

Ethernet-IP Bus coupler

Transmission standard	IEEE 802.3, 100 Base-Tx
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Communication assemblies

BUS physics	CANopen acc. to ISO 11898-1
Bus termination	120 Ω internal
BUS participants	Max. 120 channels or 64 functional assemblies
BUS topology	Line

Communication external LOCC-boxes

BUS physics	LIN
Bus termination	1 K internal
BUS participants	Max. 64 functional assemblies
BUS topology	Line
Interface mechanical	Plug-in spring terminal 3-pin, 0.2 – 2.5 mm ² (AWG 24 – AWG 12)
Interface electrical	Galvanically separated

Communication web server

BUS physics	Ethernet acc. to IEEE 802.3 100 Base-Tx
Transfer rate	100 Mbit/s
Interface mechanical	RJ45 bush with galvanic isolation 1.5 kV

communication LOCC-PADS

BUS physics	USB specification 2.0
Transfer rate	480 Mbit/s (USB High Speed)
Interface mechanical	Micro USB

Status indication

Status display	Power: red/green Maintenance: yellow Net: red/green Mod: red/green Status: red/green
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General

Rated voltage	24 V
Nominal voltage range	DC 18 V – 31.2 V
Rated current	Max. 240 mA via function carrier with feed (FTE)
Power consumption	< 5 W
Protection device	Reverse diode
Insulation voltage input / output	AC 1.5 kV _{eff}
Installation position	Any
MTBF	2196952 h
Cooling	Air convection
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)

Technical data sheet

Ethernet-IP Bus coupler

Color of the housing	RAL 7012 Basalt grey
Mounting	Pluggable On function carrier with feed (FTE) 780714.575.1 57.5 mm (Accessories)
LOCC-Bus (transfer rate)	9600 kbit/s
LCOS-Bus (transfer rate)	1 Mbit/s
Max. altitude operation	2000 m
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 102.0 mm × 120.0 mm
Weight/unit	0.25 kg
PU (units)	1

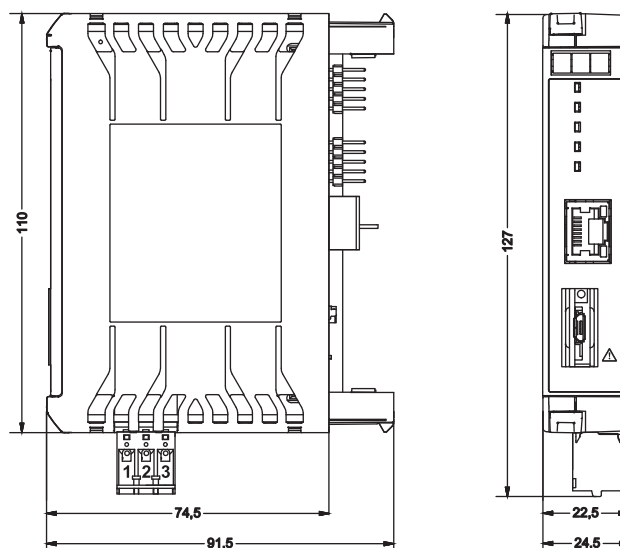
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-25 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) ODVA Certification DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 UL 61010-1 UL 61010-2-201 DNV-CG-0339

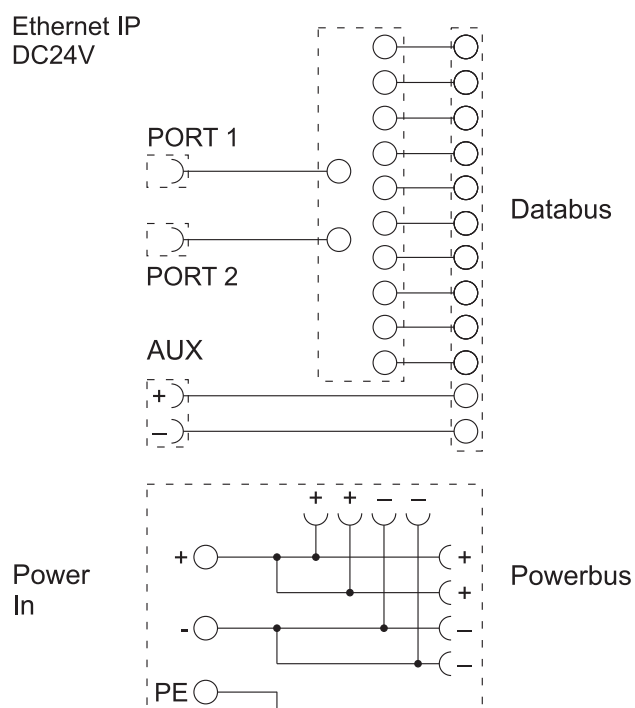
Dimensions



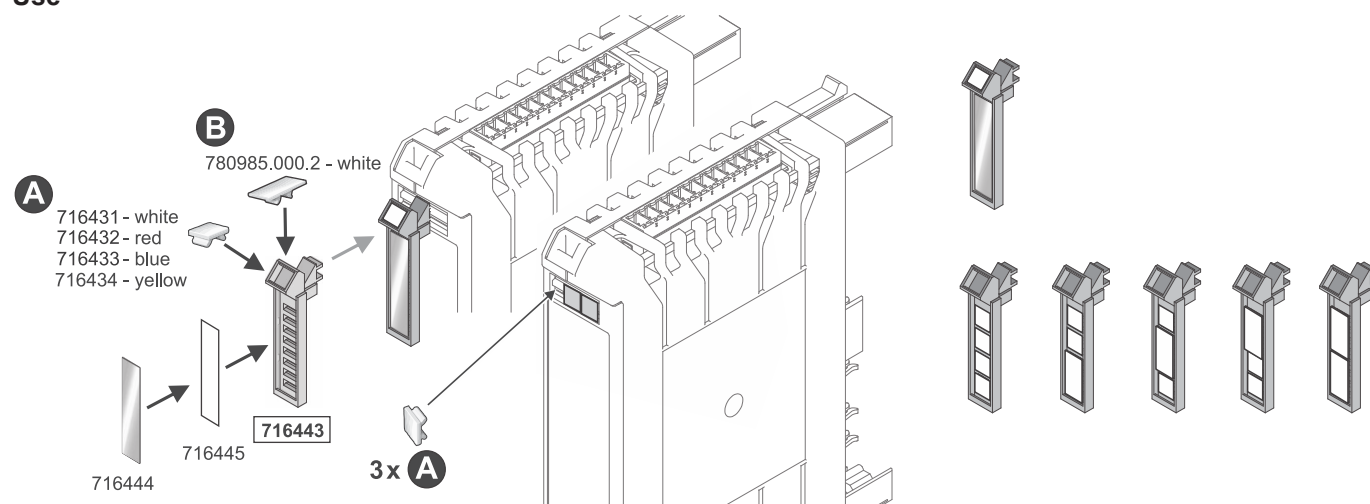
Technical data sheet

Ethernet-IP Bus coupler

PIN assignment



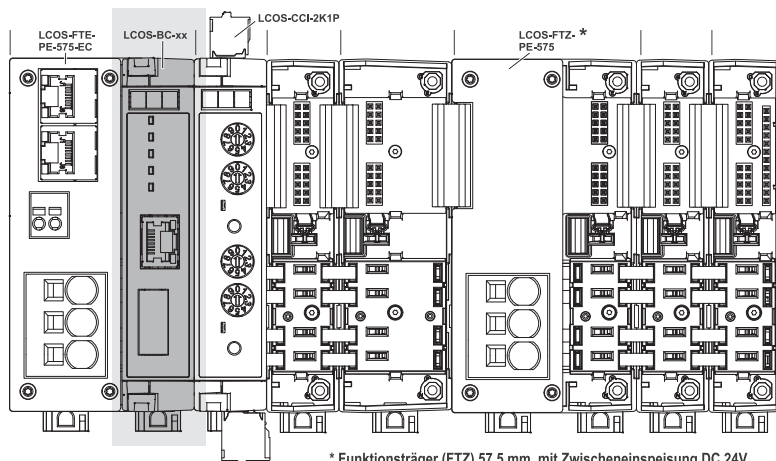
Use



Technical data sheet

Ethernet-IP Bus coupler

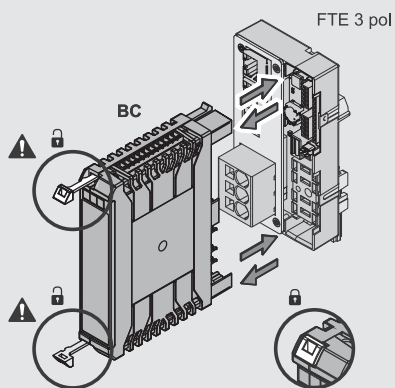
Use



* Funktionsträger (FTZ) 57,5 mm, mit Zwischeneinspeisung DC 24V
 * Function carrier (FTZ) 57,5 mm, with intermediate supply DC 24V
 * Support de fonction (FTZ) 57,5 mm, avec alimentation intermédiaire DC 24V

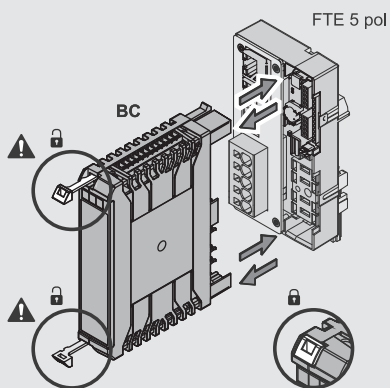
Use

LCOS CCI system



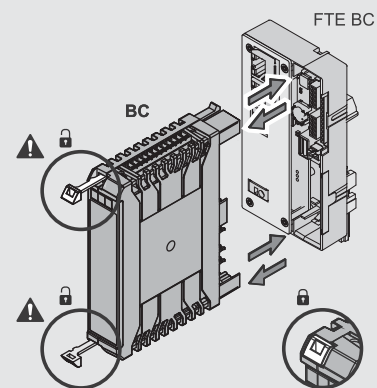
max. DC 48V
 780713.575.1 LCOS-FTE-PE-575-UN-00-1-L

AC230V
 780731.575.1 LCOS-FTE-PE-575-PN-01-1-L
 780741.575.1 LCOS-FTE-PE-575-EC-01-1-L
 780771.575.1 LCOS-FTE-PE-575-ETIP-01-1-L



AC500V
 780732.575.1 LCOS-FTE-PE-575-PN-02-1-L
 780742.575.1 LCOS-FTE-PE-575-EC-02-1-L
 780772.575.1 LCOS-FTE-PE-575-ETIP-02-1-L

LOCC-Box Net system



780714.575.1 LCOS-FTE-PE-575-UN-04-1-L

Industrial communication

Part No.	Type	BUS physics	Transfer rate	Operation temperature range	Connection technology (data)
772004	ET-SWU5E		max. 10/100 Mbit/s	-40 °C ... +75 °C	5 × RJ45
772006	ET-SWU8E		max. 10/100 Mbit/s	-40 °C ... +75 °C	8 × RJ45
772008	ET-SWU16E		max. 10/100 Mbit/s	-40 °C ... +75 °C	16 × RJ45
772013	ET-SWGU5E		max. 1000 Mbit/s	-40 °C ... +75 °C	5 × RJ45
772015	ET-SWGU8E		max. 1000 Mbit/s	-40 °C ... +75 °C	8 × RJ45
772017	ET-SWGU16E		max. 1000 Mbit/s	-40 °C ... +75 °C	16 × RJ45
772001	unm. switch ET-SWU5ET		max. 100 Mbit/s	-40 °C ... +75 °C	5 × RJ45
772005	unm. switch ET- SWU4-1STSC		100 Mbit/s	-10 °C ... +60 °C	4 × RJ45, 1 × SC or 4 × RJ45, 2 × SC
772009	ET- SWGU4FP		max. 1000 Mbit/s	-40 °C ... +75 °C	5 × RJ45, 1 × SFP (mini- GBIC)

Part No.	Type	BUS physics	Transfer rate	Operation temperature range	Connection technology (data)
772011	unm. switch ET- SWGU5ET		max. 1000 Mbit/s	-40 °C ... +75 °C	5 × RJ45
772014	unm. switch ET- SWGU18ST		Ethernet: 10/100 Mbit/s, Gigabit Chopper: 10/100/1000 Mbit/s	-10 °C ... +60 °C	16 × RJ45 + 2 × RJ45/SFP (mini GBIC)
772020	unm. PoE switch ET- PU5ST		max. 100 Mbit/s	-10 °C ... +60 °C	5 × RJ45
772021	unm. PoE switch ET- PU5AST		max. 1000 Mbit/s	-40 °C ... +75 °C	5 × RJ45, 1 × SFP (mini- GBIC)
772022	PoE Splitter ET-PSPET		max. 100 Mbit/s	-40 °C ... +75 °C	PoE IN, OUT: RJ 45
772025	ET- SWGU8FP		max. 1000 Mbit/s	-40 °C ... +75 °C	8 x RJ45, 2 x SFP (mini- GBIC)
779200.0401	LCOS-SW-4P		max. 100 Mbit/s	-25 °C ... +70 °C	4 × RJ45

Part No.	Type	BUS physics	Transfer rate	Operation temperature range	Connection technology (data)
779200.0801	LCOS-SW-8P		max. 100 Mbit/s	-25 °C ... +70 °C	8 × RJ45
779201.0401	LCOS-SW-4P		max. 100 Mbit/s	-25 °C ... +70 °C	4 × RJ45
779201.0801	LCOS-SW-8P		max. 100 Mbit/s	-25 °C ... +70 °C	8 × RJ45
772024	ET-SWU6F		max. 10/100 Mbit/s	-40 °C ... +75 °C	4 × RJ45

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