

Модульная система корпусов LCOS

Технические характеристики

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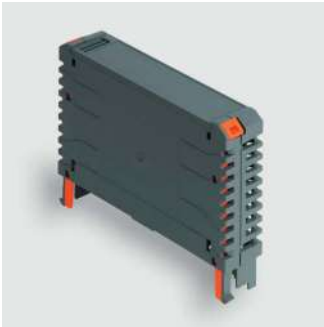
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 22,5 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-225-00/00/00-1
Part No.	780100.225.1

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 22.5 mm, with cooling slits, closed front plate, no connection opening top/bottom

General

Color	RAL 7012
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	2 × Labelling plates 5×5 mm
Power Dissipation	6 W @ 20°C, 3 W @ 60°C, 2 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 91.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

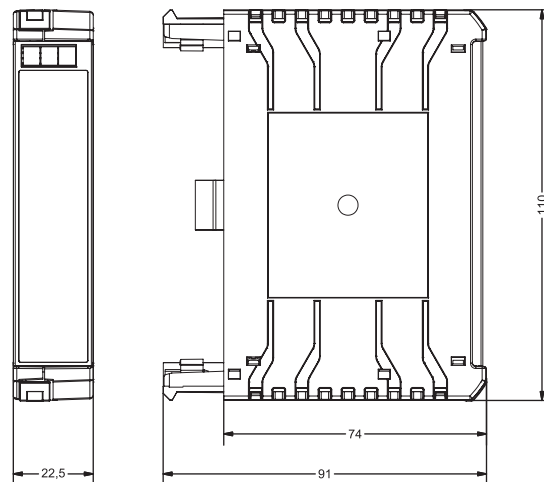
Modular housing system · LCOS Modular housing system

Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g

Certifications/Standards

Certifications	cURus DNV (TAA00002SY) cULus (E170585)
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Dimensions



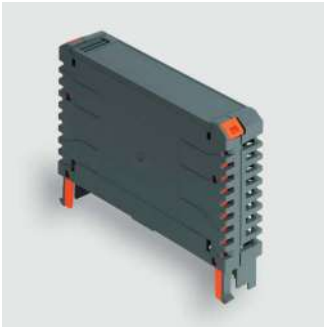
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 22,5 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-225-00/00/00-1
Part No.	780100.225.2

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 22.5 mm, with cooling slits, closed front plate, no connection opening top/bottom

General

Color	RAL 7012
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	2 × Labelling plates 5×5 mm
Power Dissipation	6 W @ 20°C, 3 W @ 60°C, 2 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 91.0 mm
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

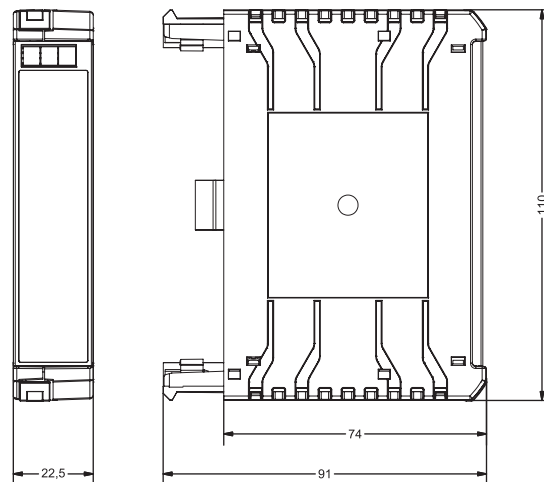
Modular housing system · LCOS Modular housing system

Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g

Certifications/Standards

Certifications	cURus DNV (TAA00002SY) cULus (E170585)
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Dimensions



Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 35 mm

Data bus 12-pole power busAC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-350-00/00/00-1
Part No.	780100.350.1

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 35 mm, with cooling slits, closed front plate, no connection opening top/bottom

General

Color	RAL 7012
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	3 × Labelling plates 5×5 mm
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 74.0 mm
PU (units)	1

General ambient conditions

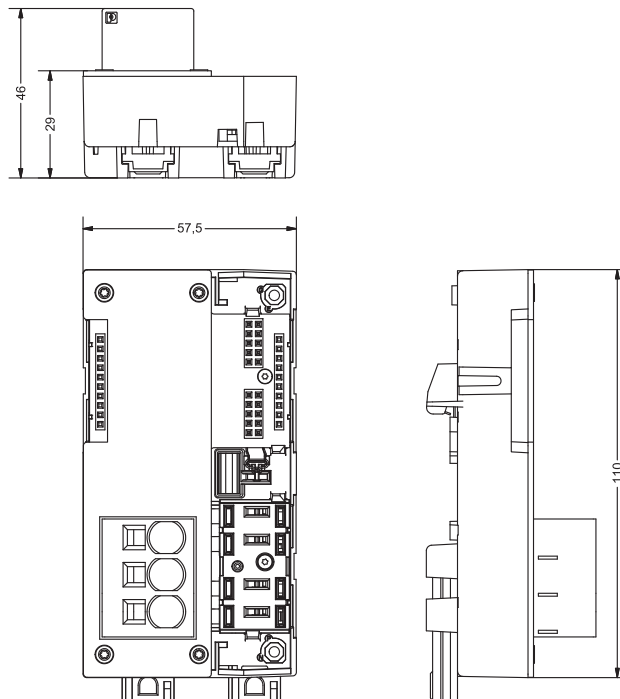
Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

Modular housing system · LCOS Modular housing system

Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting

Dimensions



Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 35 mm

Data bus 12-pole power busAC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-350-00/00/00-1
Part No.	780100.350.2

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 35 mm, with cooling slits, closed front plate, no connection opening top/bottom

General

Color	RAL 7012
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	3 × Labelling plates 5×5 mm
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 74.0 mm
PU (units)	10

General ambient conditions

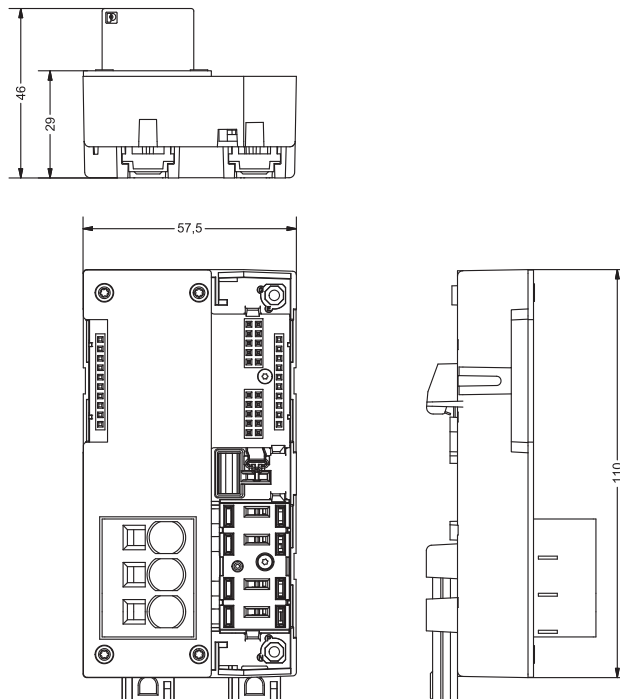
Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

Modular housing system · LCOS Modular housing system

Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting

Dimensions



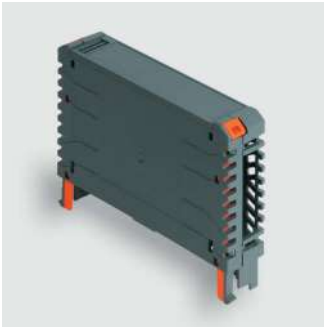
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 22,5 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-225-01/00/01-1
Part No.	780103.225.1

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 22.5 mm, with cooling slits, closed front plate, connection opening top/bottom

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	2 × Labelling plates 5×5 mm
Power Dissipation	6 W @ 20°C, 3 W @ 60°C, 2 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 91.0 mm
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C

Technical data sheet

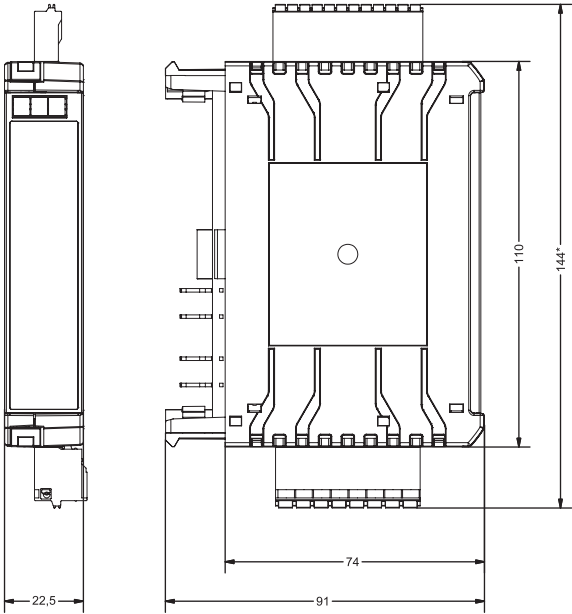
Modular housing system · LCOS Modular housing system

Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g

Certifications/Standards

Certifications	cURus DNV (TAA00002SY) cULus (E170585)
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Dimensions



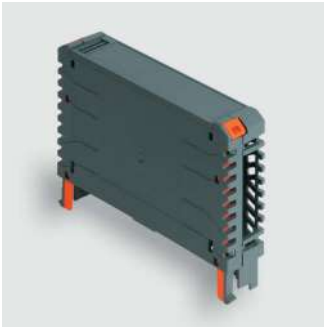
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 22,5 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-225-01/00/01-1
Part No.	780103.225.2

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 22.5 mm, with cooling slits, closed front plate, connection opening top/bottom

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	2 × Labelling plates 5×5 mm
Power Dissipation	6 W @ 20°C, 3 W @ 60°C, 2 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 91.0 mm
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C

Technical data sheet

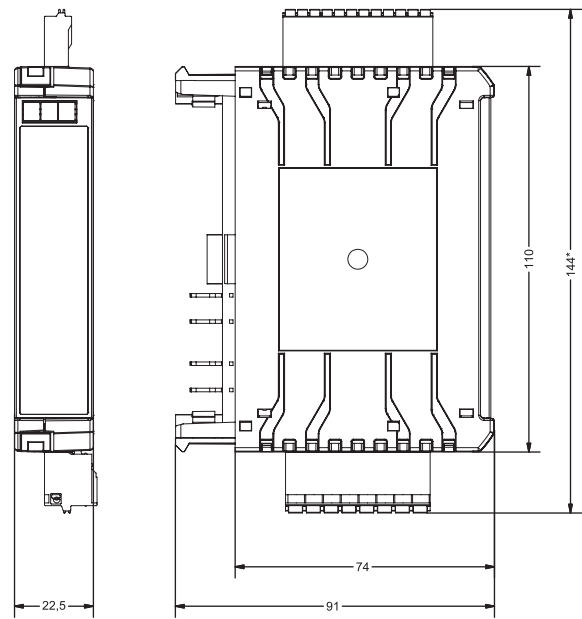
Modular housing system · LCOS Modular housing system

Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g

Certifications/Standards

Certifications	cURus DNV (TAA00002SY) cULus (E170585)
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Dimensions



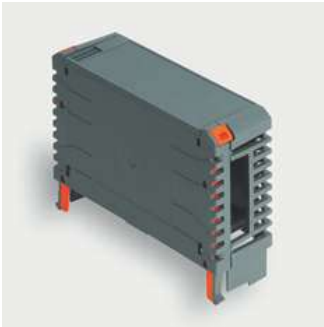
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 35 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-350-01/00/01-1
Part No.	780103.350.1

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 35 mm, with cooling slits, closed front plate, connection opening top/bottom

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	3 × Labelling plates 5×5 mm
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 74.0 mm
PU (units)	1

General ambient conditions

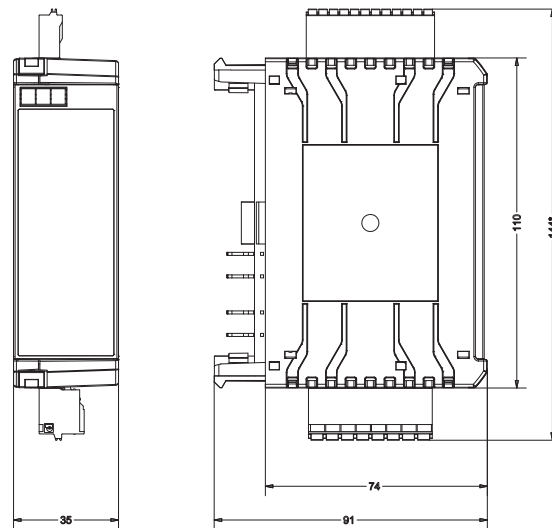
Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C

Technical data sheet

Modular housing system · LCOS Modular housing system

Relative air humidity 5 – 95 %, no defrosting

Dimensions



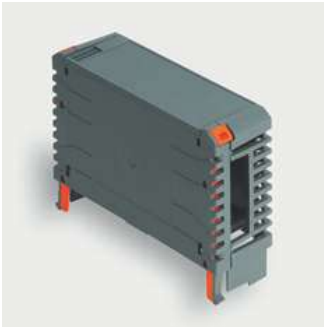
Technical data sheet

Modular housing system · LCOS Modular housing system

Carrier base: Construction width without supply: 35 mm

Data bus 12-pole power bus AC/DC 500 V, 4×16 A

Integrated PE contact



Identification

Type	LCOS-FGO-350-01/00/01-1
Part No.	780103.350.2

Product version

Datasheet version	01
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Description

System Components	Function housing
Description	Function housing 35 mm, with cooling slits, closed front plate, connection opening top/bottom

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	on LCOS function carrier
Marking	3 × Labelling plates 5×5 mm
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 74.0 mm
PU (units)	10

General ambient conditions

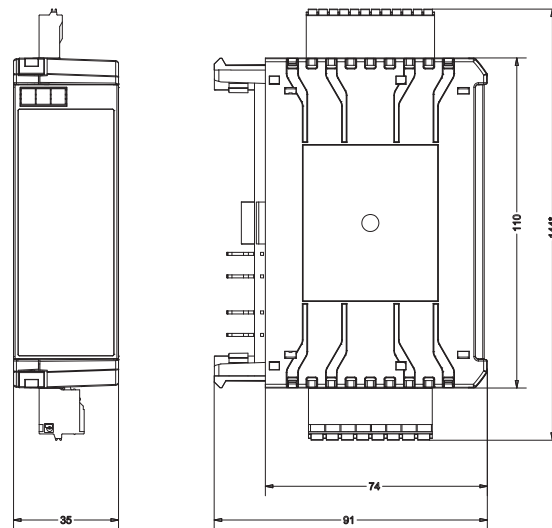
Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C

Technical data sheet

Modular housing system · LCOS Modular housing system

Relative air humidity 5 – 95 %, no defrosting

Dimensions



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
Closed design
Integrated PE contact



Identification

Type LCOS-FT-PE-225-00-00-1
Part No. [780201.225.1](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, cannot be expanded with modules, with PE direct contact

Slots

Slots 1 × 22.5mm

General

Housing material PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing pebble grey
Mounting DIN rail mountable TS35 (EN 60715)
Marking 2 × Labelling plates 5×5 mm
Installation position Vertical
MTBF on request
Power Dissipation 9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

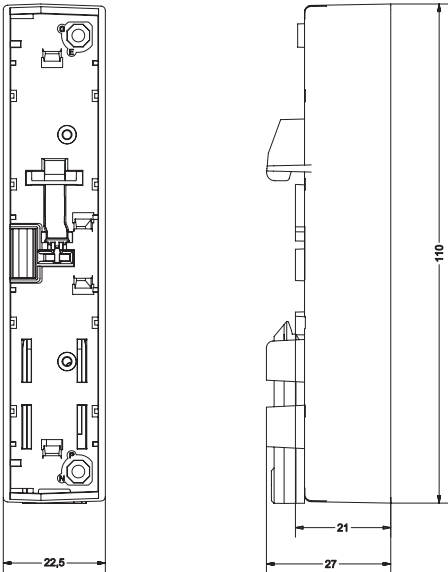
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

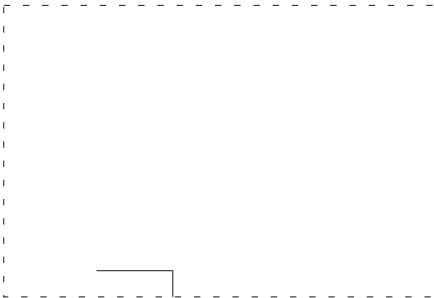
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
In



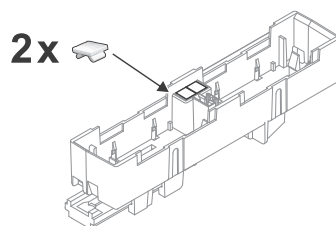
Technical data sheet

Load monitoring · LCOS accessories

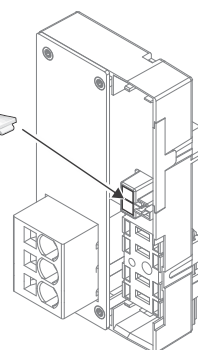
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

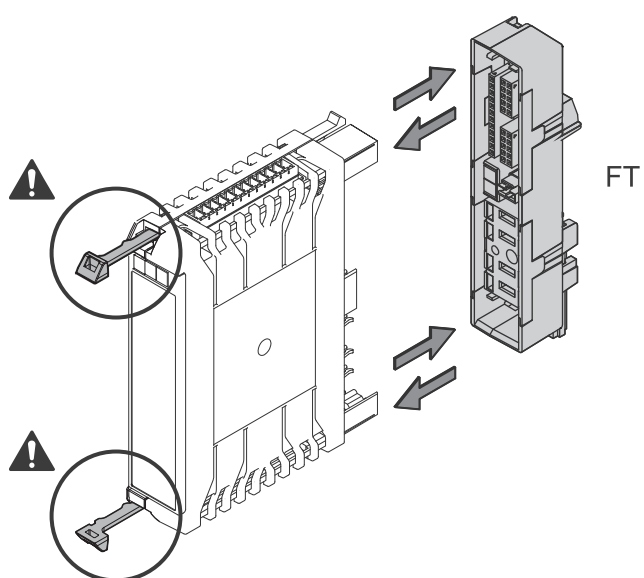
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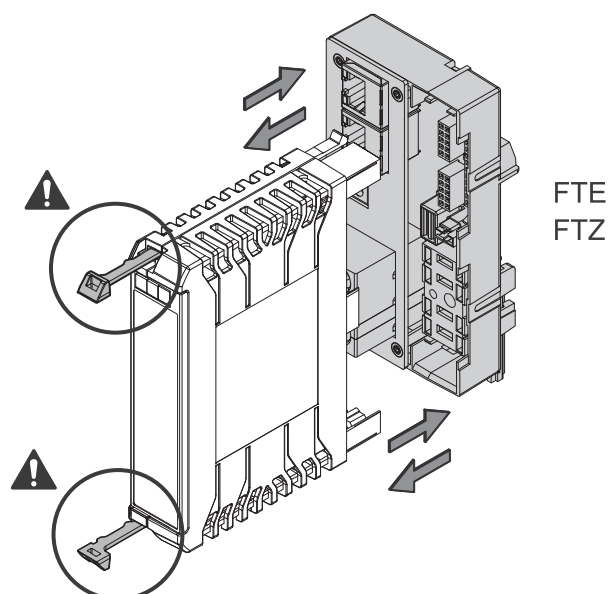
2x



Use



FT



FTE
FTZ

Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
Closed design
Integrated PE contact



Identification

Type LCOS-FT-PE-225-00-00-1
Part No. [780201.225.2](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, cannot be expanded with modules, with PE direct contact

Slots

Slots 1 × 22.5mm

General

Housing material PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing pebble grey
Mounting DIN rail mountable TS35 (EN 60715)
Marking 2 × Labelling plates 5×5 mm
Installation position Vertical
MTBF on request
Power Dissipation 9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

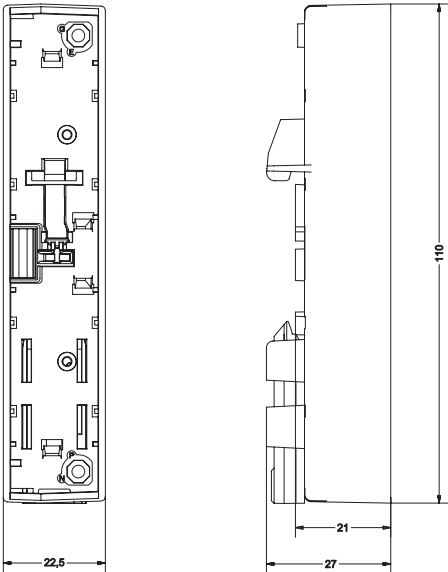
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

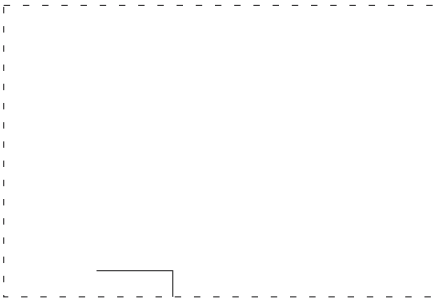
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
In



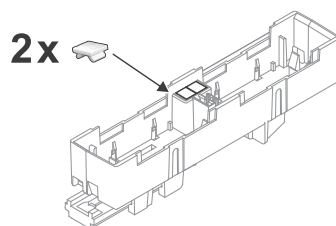
Technical data sheet

Load monitoring · LCOS accessories

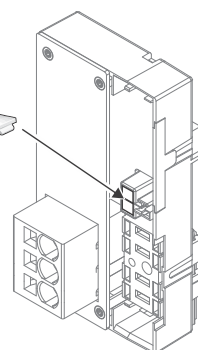
Use

780981.000.2 - white
780982.000.2 - red
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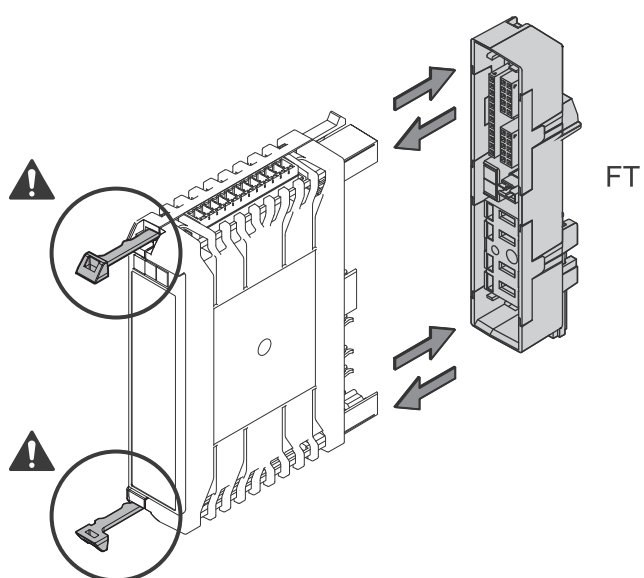
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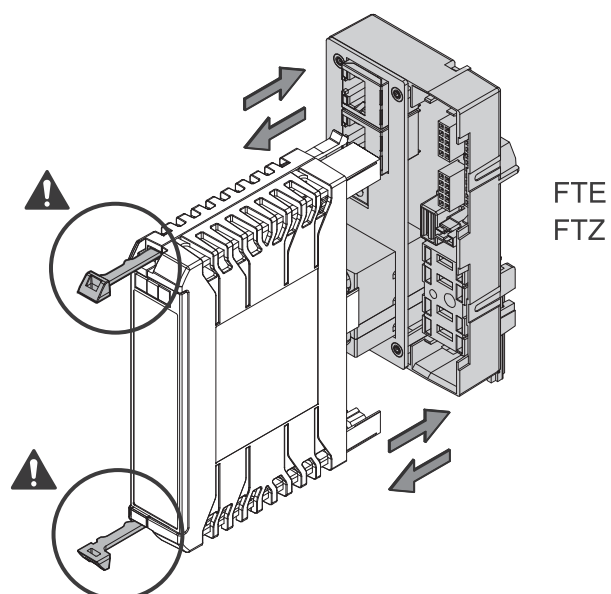
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Use



FT



FTE
FTZ

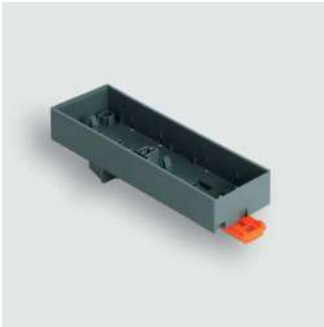
Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm

Closed design

Integrated PE contact



Identification

Type	LCOS-FT-PE-350-00-00-1
Part No.	780201.350.1

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, cannot be expanded with modules, no PE direct contact

Slots

Slots	1 × 35mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

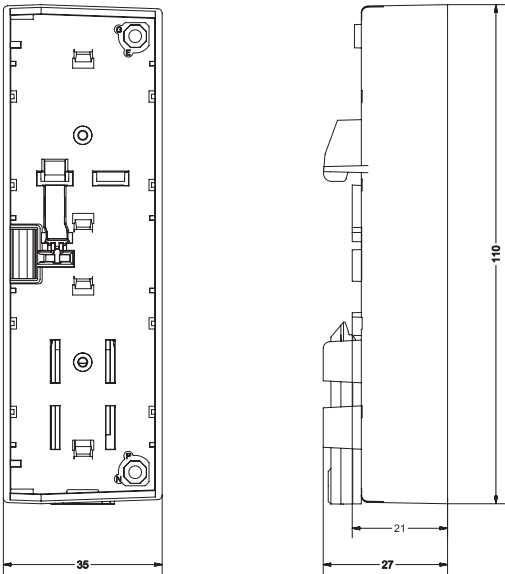
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

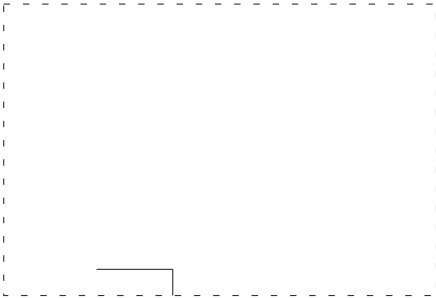
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
In



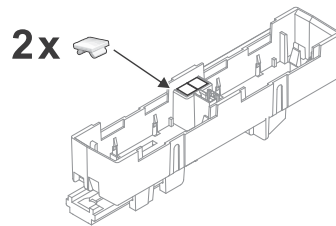
Technical data sheet

Load monitoring · LCOS accessories

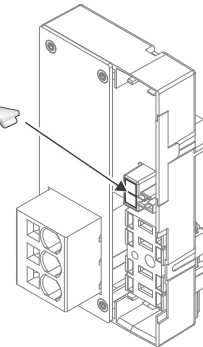
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

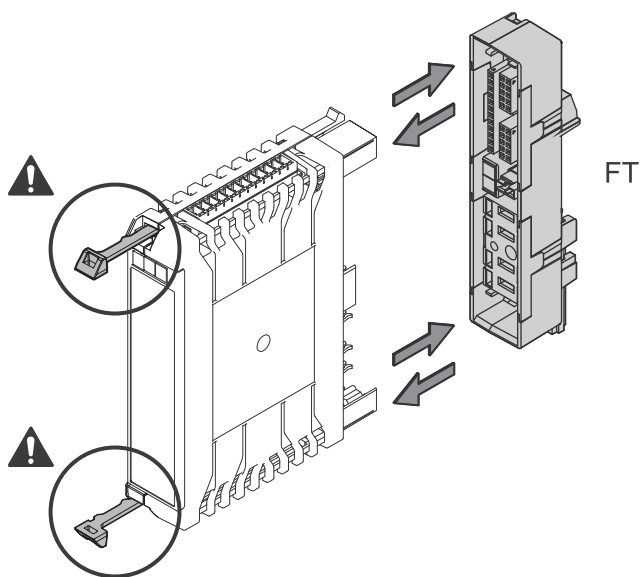
2x



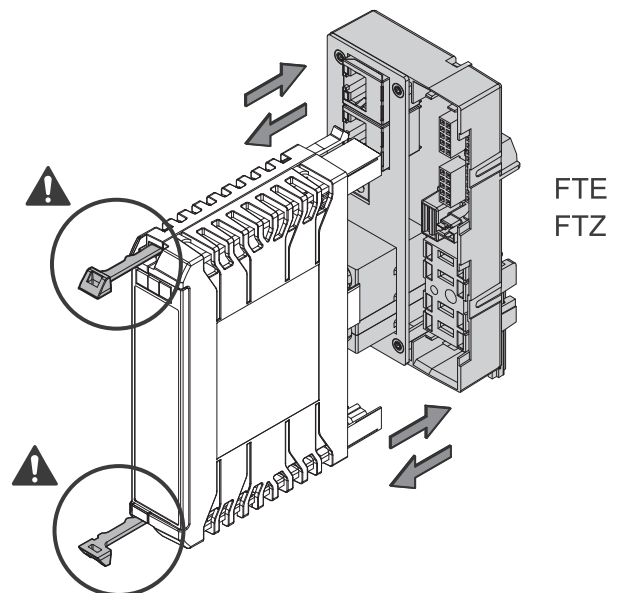
2x



Use



FT



FTE
FTZ

Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm

Closed design

Integrated PE contact



Identification

Type	LCOS-FT-PE-350-00-00-1
Part No.	780201.350.2

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, cannot be expanded with modules, no PE direct contact

Slots

Slots	1 × 35mm
-------	----------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

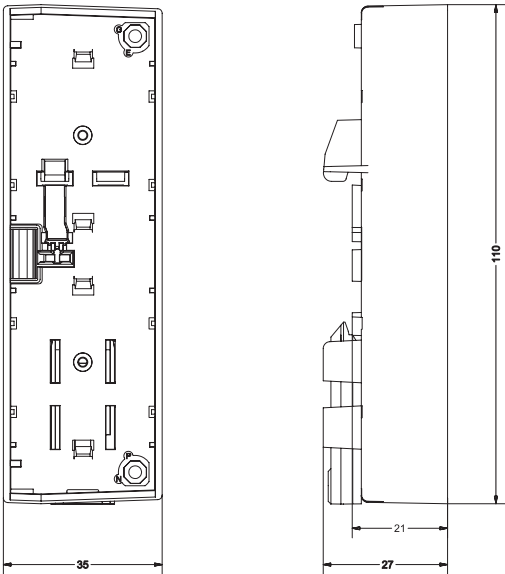
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

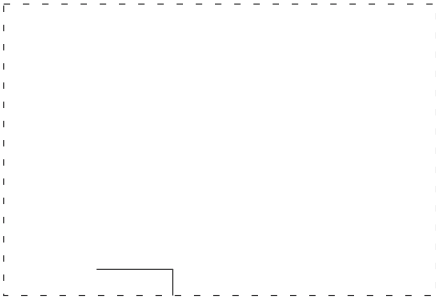
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
In



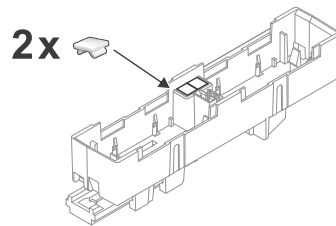
Technical data sheet

Load monitoring · LCOS accessories

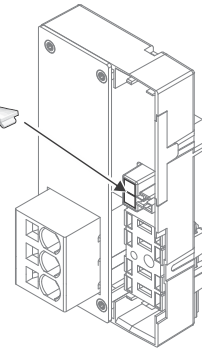
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

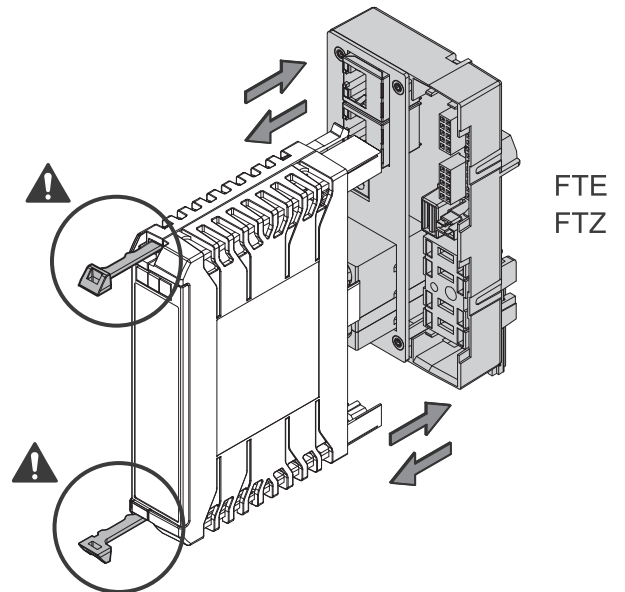
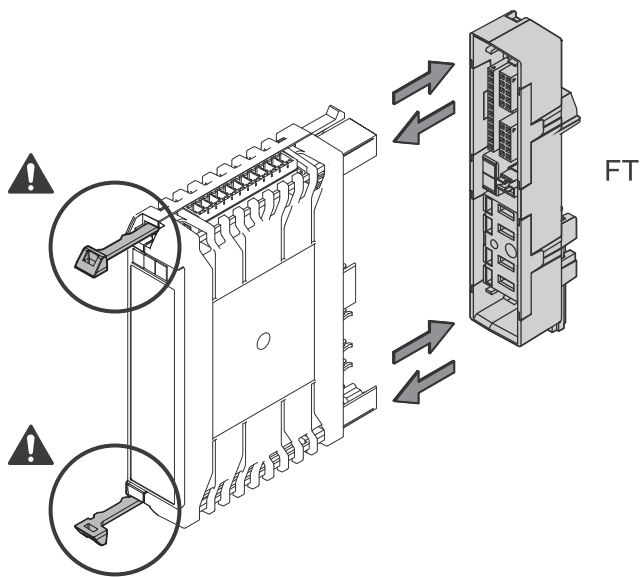
2x



2x



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm

Modular design

Integrated PE contact



Identification

Type	LCOS-FT-PE-225-00-03-1
Part No.	780331.225.1

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier base 22,5 mm to be used together with the control unit.

Slots

Slots	1 × 22.5mm
-------	------------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm

Technical data sheet

Load monitoring · LCOS accessories

Weight/unit	0.04 kg
PU (units)	1

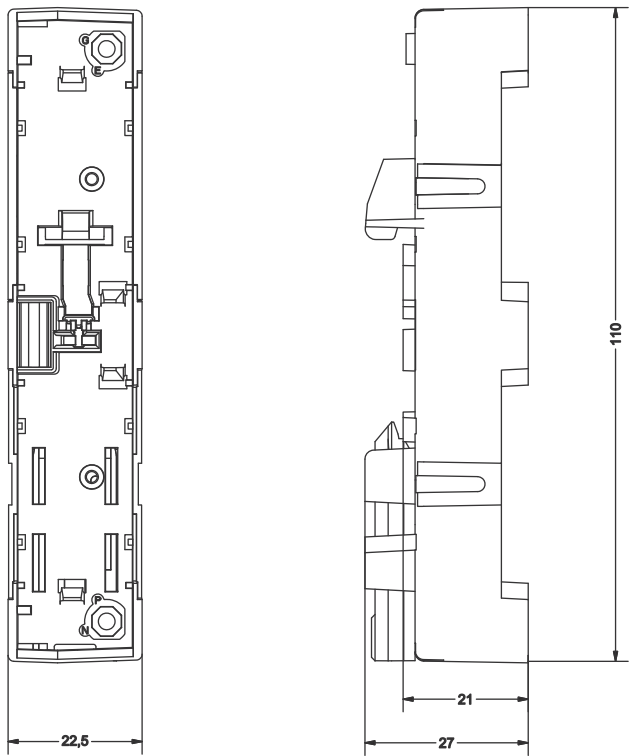
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

Dimensions



Technical data sheet

Load monitoring · LCOS accessories

PIN assignment

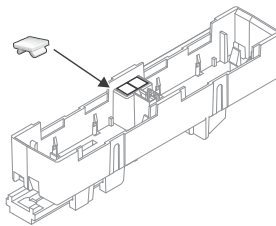
Power
In

PE

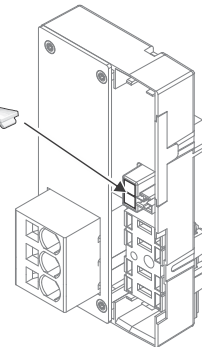
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

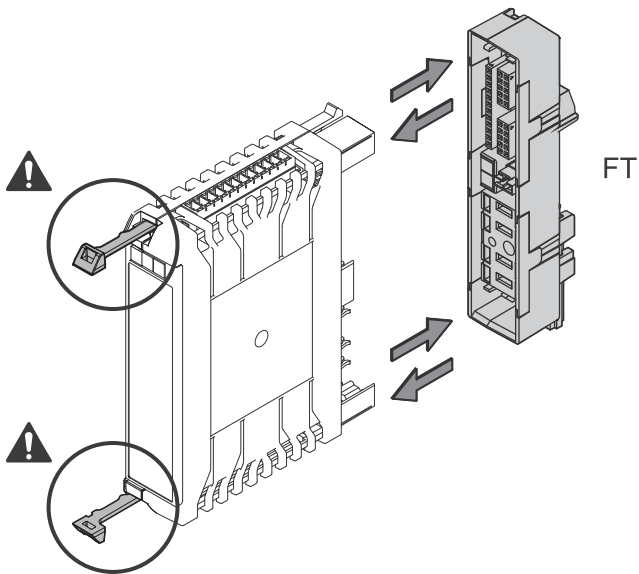
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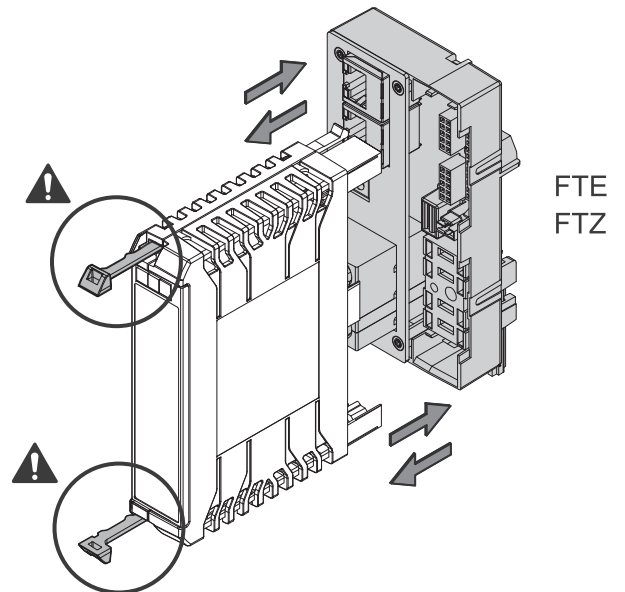
2x



Use



FT

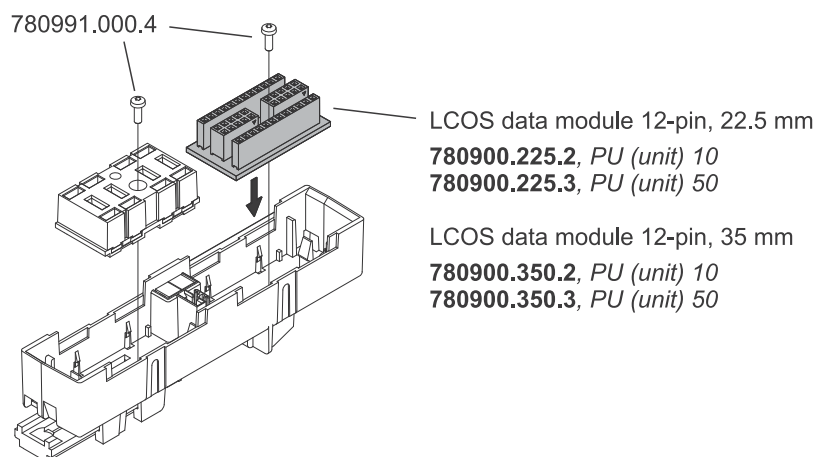


FTE
FTZ

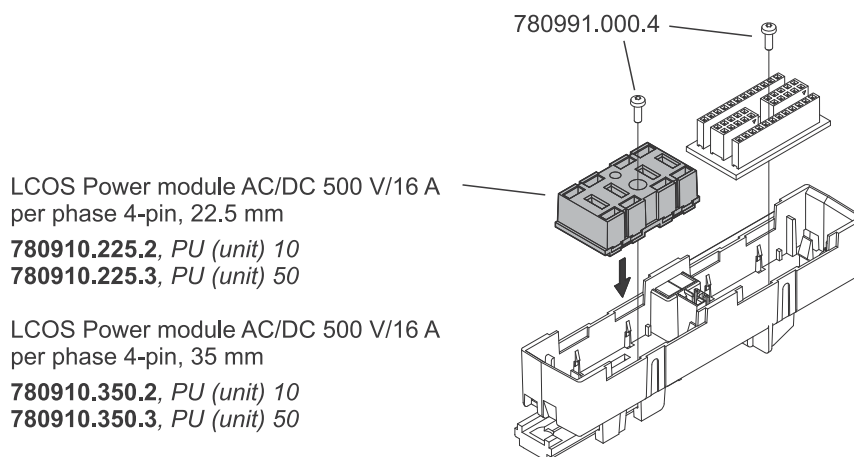
Technical data sheet

Load monitoring · LCOS accessories

Use



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm

Modular design

Integrated PE contact



Identification

Type	LCOS-FT-PE-225-00-03-1
Part No.	780331.225.2

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 22.5 mm, can be expanded with modules, with PE direct contact

Slots

Slots	1 × 22.5mm
-------	------------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

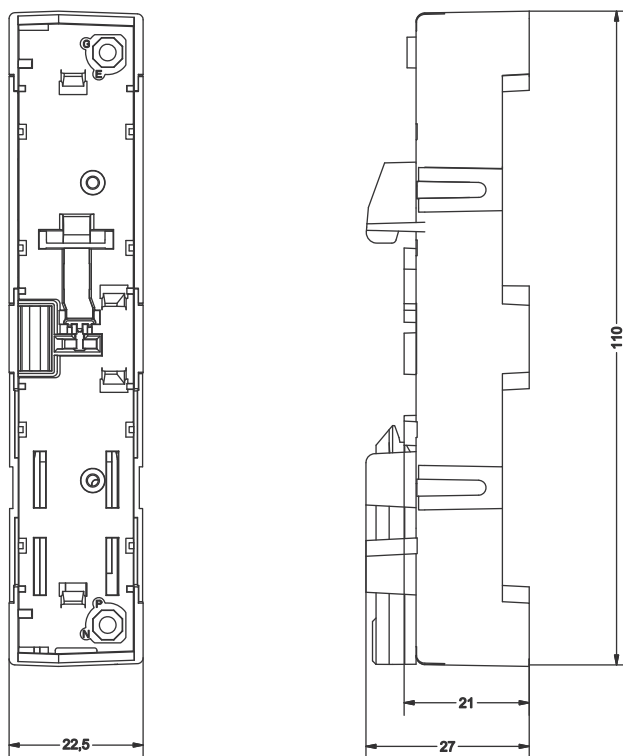
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

Dimensions

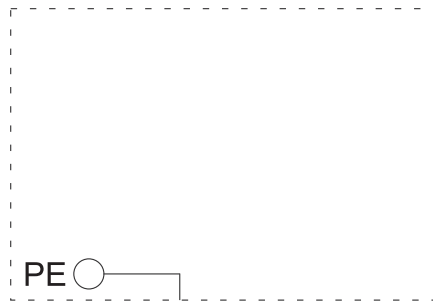


Technical data sheet

Load monitoring · LCOS accessories

PIN assignment

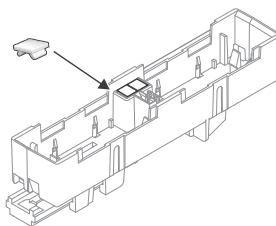
Power
In



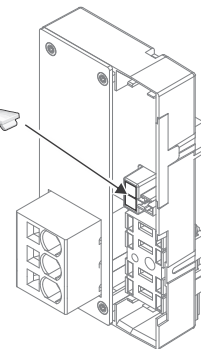
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

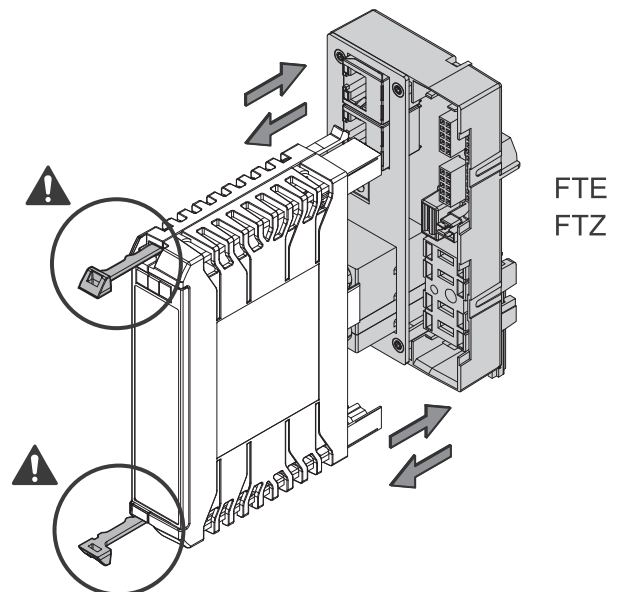
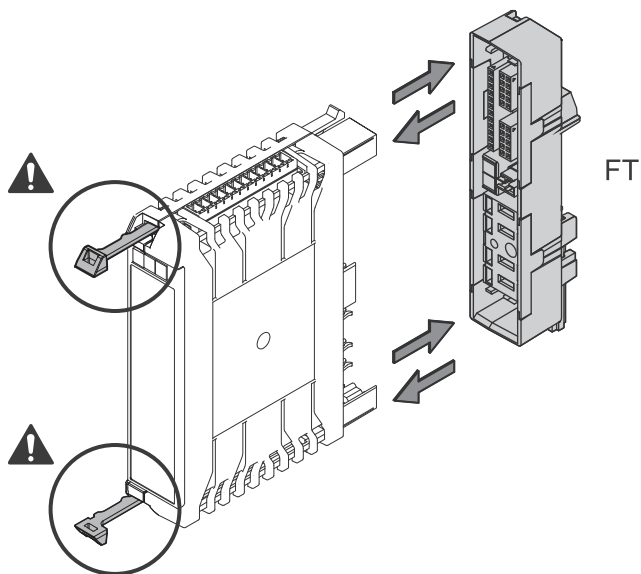
2x



2x



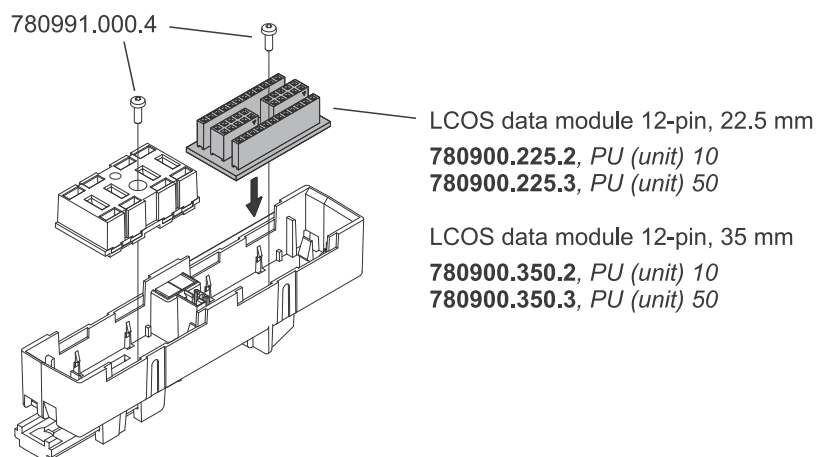
Use



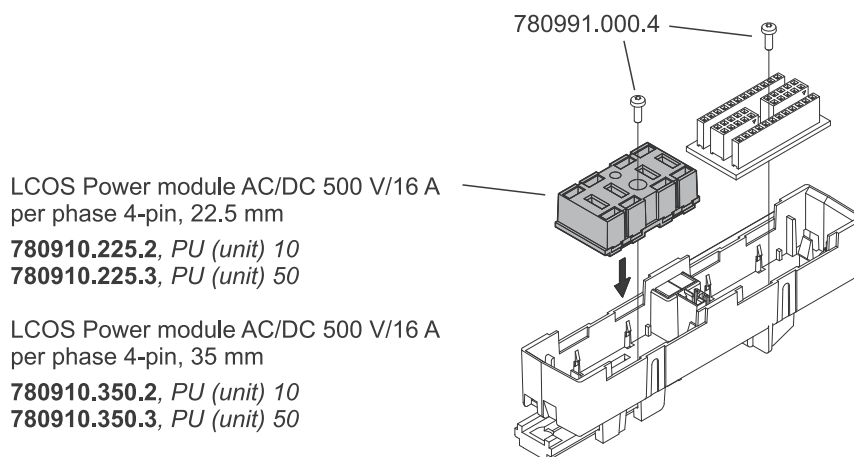
Technical data sheet

Load monitoring · LCOS accessories

Use



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm

Modular design

Integrated PE contact



Identification

Type	LCOS-FT-PE-350-00-03-1
Part No.	780331.350.1

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded withn modules, with PE direct contact

Slots

Slots	1 × 35mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

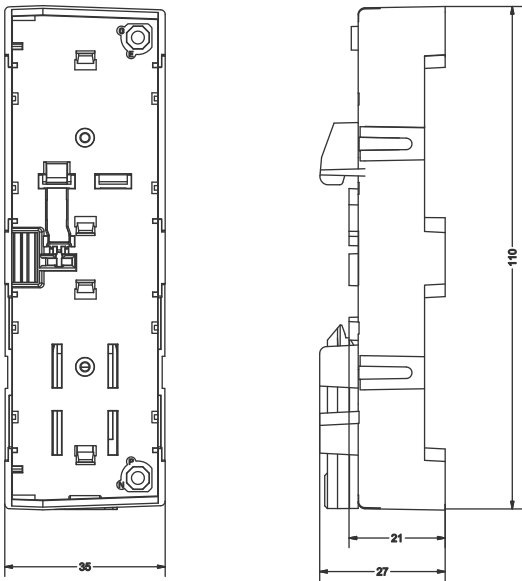
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

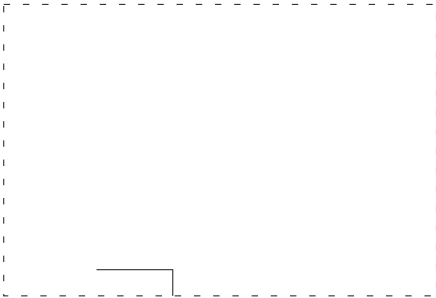
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
I



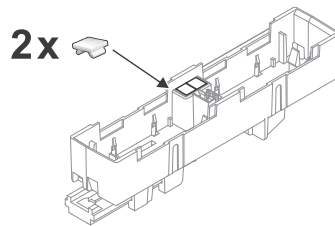
Technical data sheet

Load monitoring · LCOS accessories

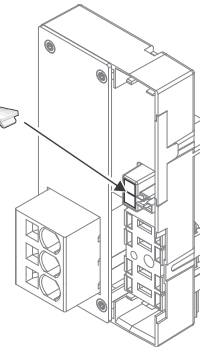
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

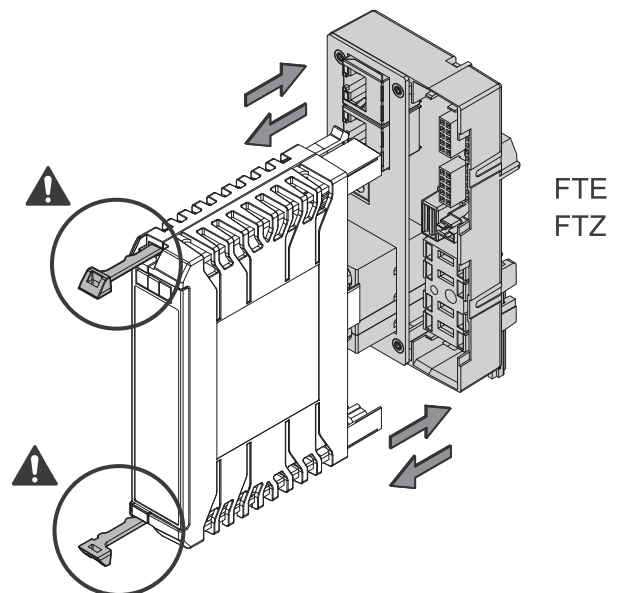
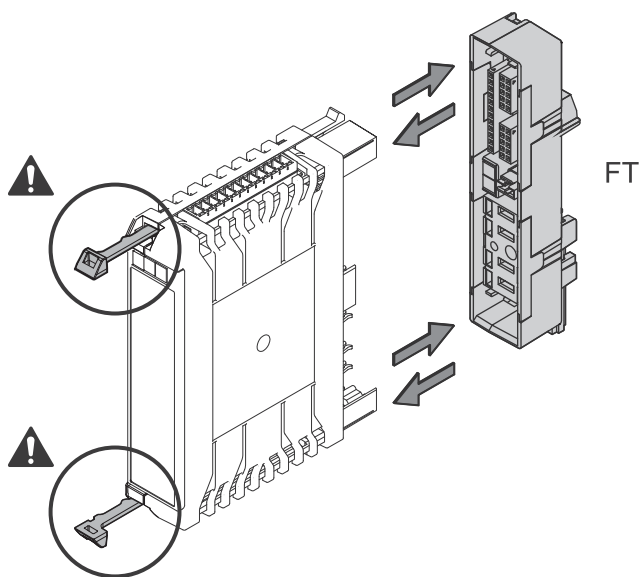
2x



2x

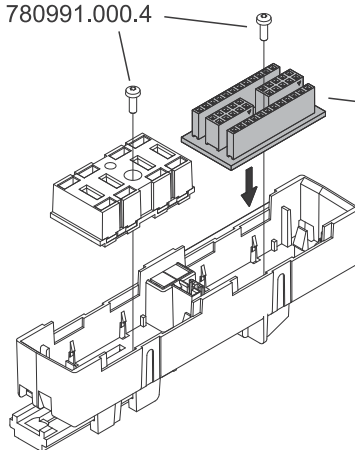


Use



Use

780991.000.4



LCOS data module 12-pin, 22.5 mm

780900.225.2, PU (unit) 10

780900.225.3, PU (unit) 50

LCOS data module 12-pin, 35 mm

780900.350.2, PU (unit) 10

780900.350.3, PU (unit) 50

Technical data sheet

Load monitoring · LCOS accessories

Use

LCOS Power module AC/DC 500 V/16 A
per phase 4-pin, 22.5 mm

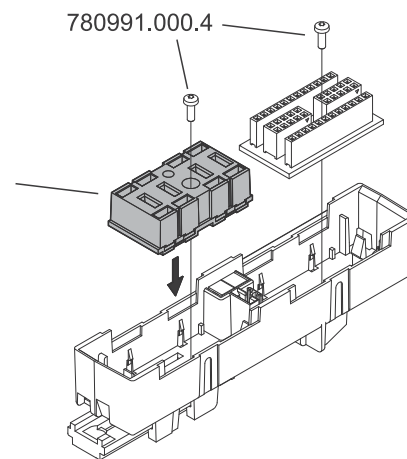
780910.225.2, PU (unit) 10

780910.225.3, PU (unit) 50

LCOS Power module AC/DC 500 V/16 A
per phase 4-pin, 35 mm

780910.350.2, PU (unit) 10

780910.350.3, PU (unit) 50



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm

Modular design

Integrated PE contact



Identification

Type	LCOS-FT-PE-350-00-03-1
Part No.	780331.350.2

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded withn modules, with PE direct contact

Slots

Slots	1 × 35mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)

Technical data sheet

Load monitoring · LCOS accessories

Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

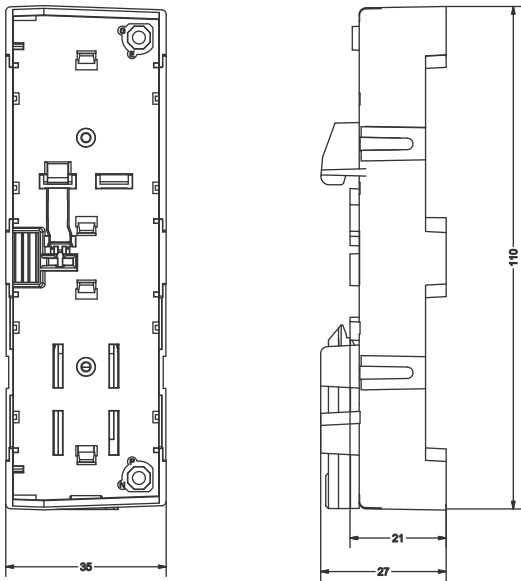
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

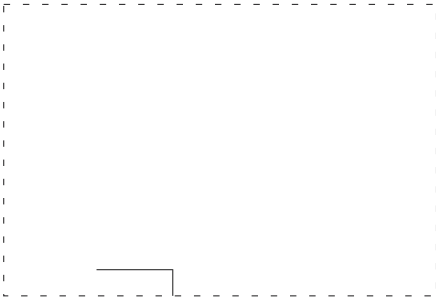
Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	UL 61010-1 UL 61010-2-201 DNV-CG-0339

Dimensions



PIN assignment

Power
I



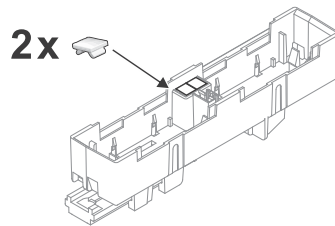
Technical data sheet

Load monitoring · LCOS accessories

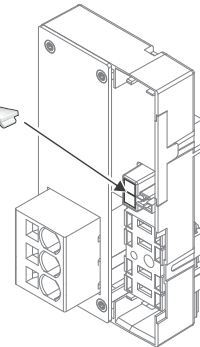
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

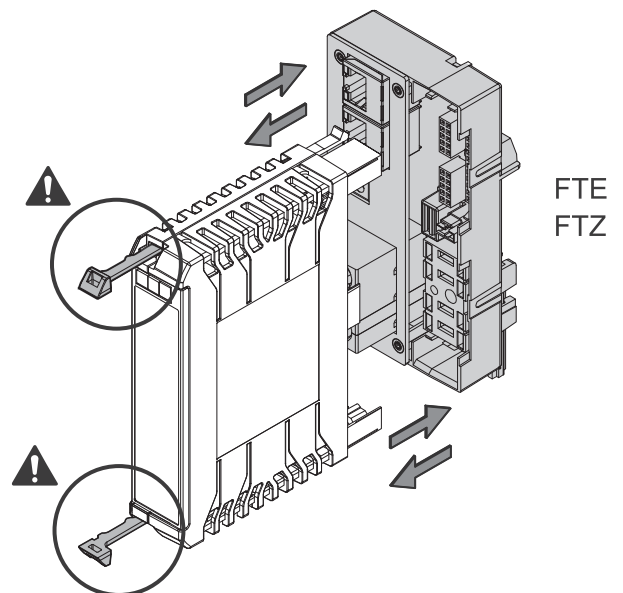
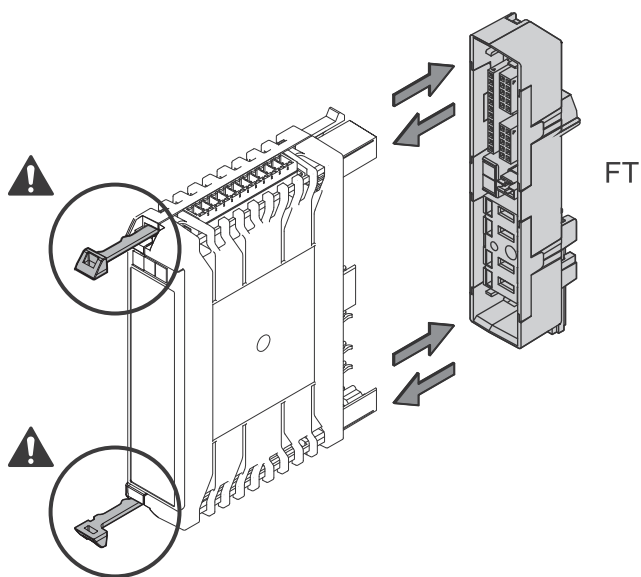
2x



2x

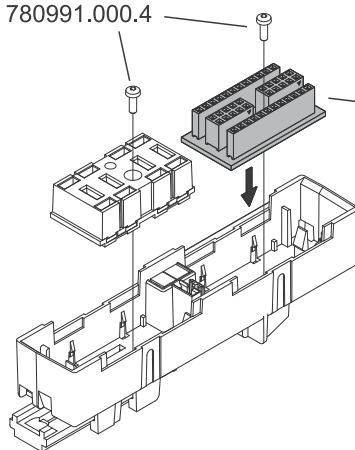


Use



Use

780991.000.4



LCOS data module 12-pin, 22.5 mm

780900.225.2, PU (unit) 10

780900.225.3, PU (unit) 50

LCOS data module 12-pin, 35 mm

780900.350.2, PU (unit) 10

780900.350.3, PU (unit) 50

Technical data sheet

Load monitoring · LCOS accessories

Use

LCOS Power module AC/DC 500 V/16 A
per phase 4-pin, 22.5 mm

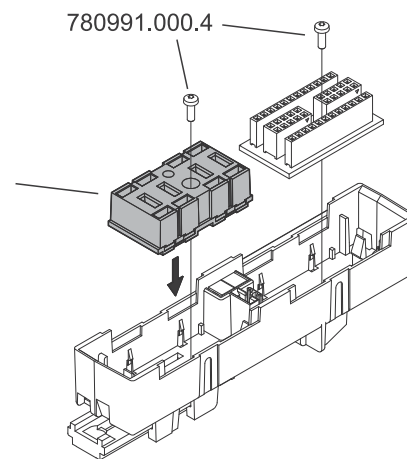
780910.225.2, PU (unit) 10

780910.225.3, PU (unit) 50

LCOS Power module AC/DC 500 V/16 A
per phase 4-pin, 35 mm

780910.350.2, PU (unit) 10

780910.350.3, PU (unit) 50



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
with integrated power bus
Modular expandable, integrated PE contact



Identification

Type LCOS-FT-PE-225-0P-02-1
Part No. [780402.225.1](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, can be expanded with modules, with PE direct contact, power module

Electrical data Power Bus

Operating voltage max. AC/DC 500 V
Operating current max. AC/DC 16 A/channel
Voltage drop Powerbus at $I_{\max}$ <80 mV

Slots

Slots 1 × 22.5mm

General

Connection type Bridge 1-pole, connectable
Housing material PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing pebble grey

Technical data sheet

Load monitoring · LCOS accessories

Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

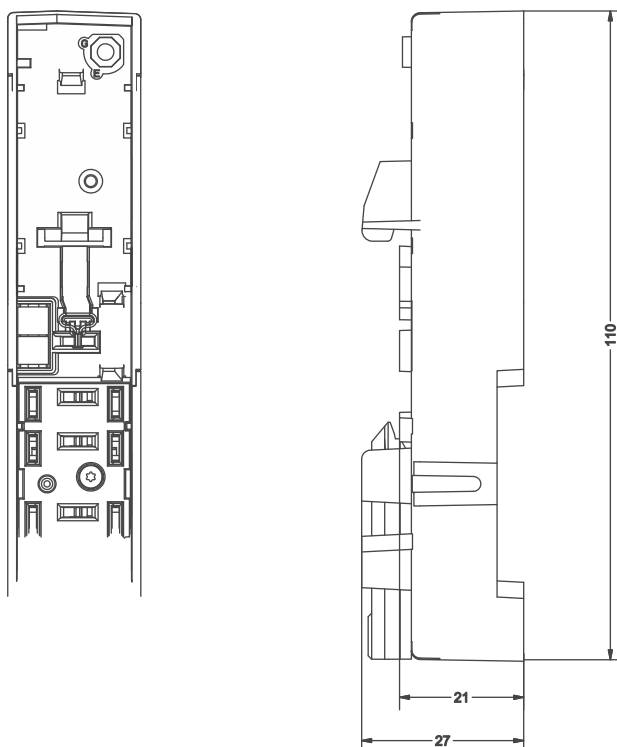
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

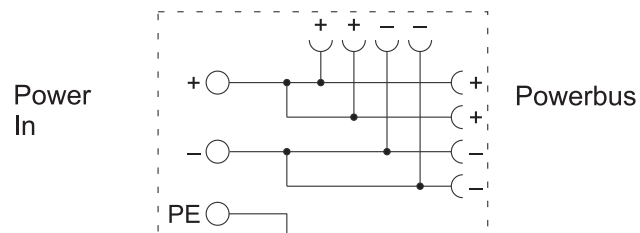
Dimensions



Technical data sheet

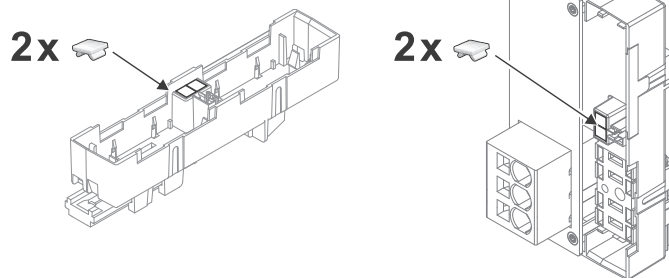
Load monitoring · LCOS accessories

PIN assignment

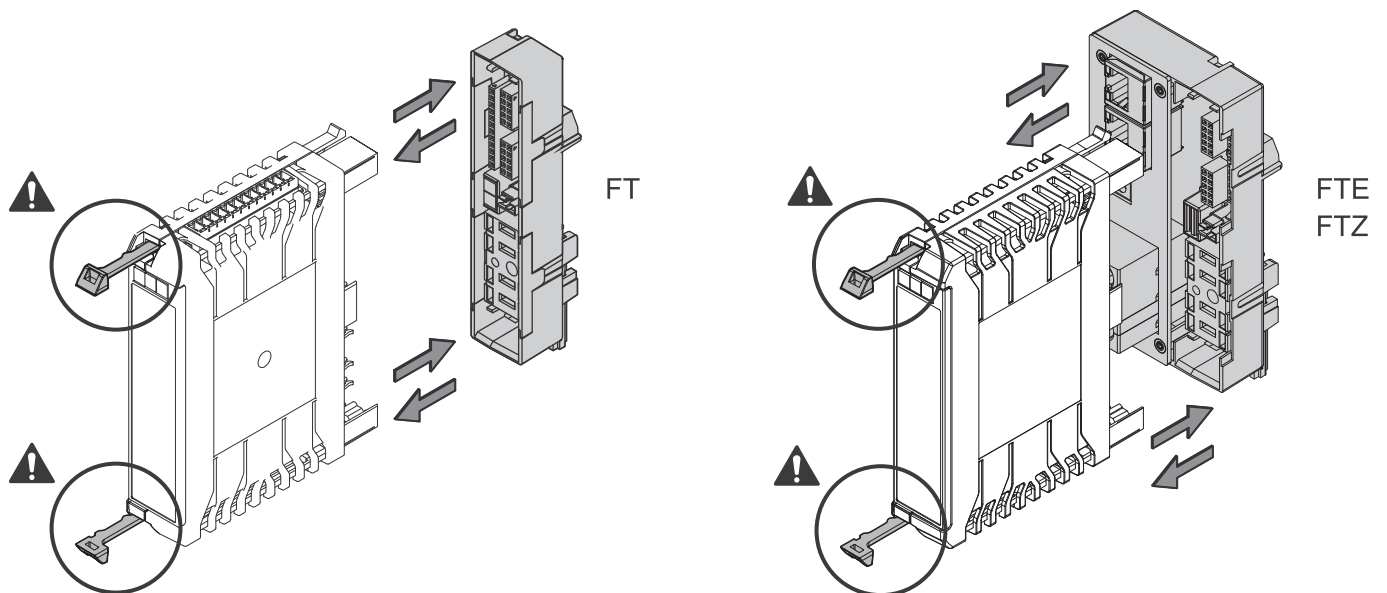


Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
with integrated power bus
Modular expandable, integrated PE contact



Identification

Type LCOS-FT-PE-225-0P-02-1
Part No. [780402.225.2](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, can be expanded with modules, with PE direct contact, power module

Electrical data Power Bus

Operating voltage max. AC/DC 500 V
Operating current max. AC/DC 16 A/channel
Voltage drop Powerbus at I_{max} <80 mV

Slots

Slots 1 × 22.5mm

General

Connection type Bridge 1-pole, connectable
Housing material PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing pebble grey

Technical data sheet

Load monitoring · LCOS accessories

Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

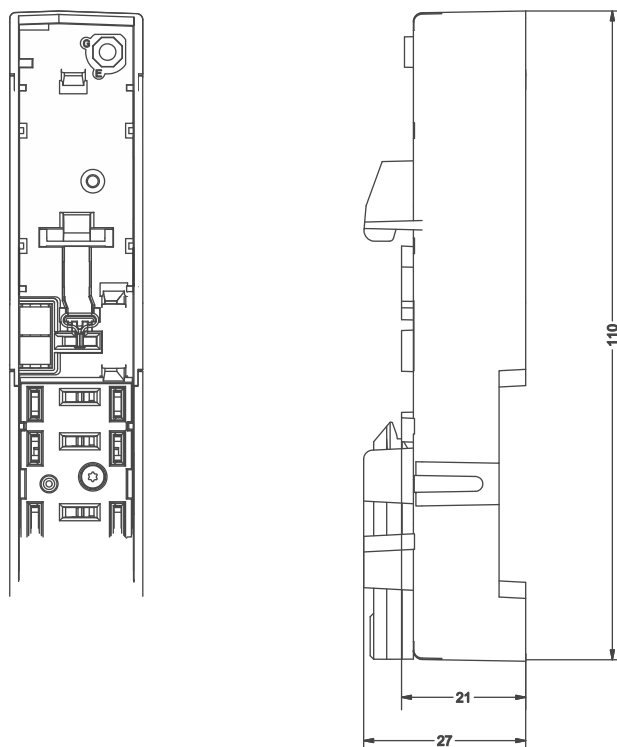
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

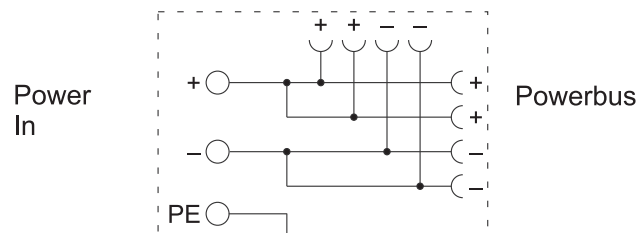
Dimensions



Technical data sheet

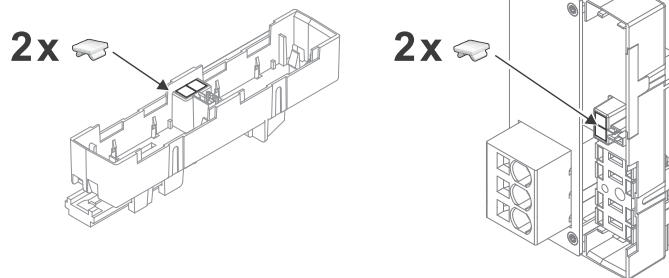
Load monitoring · LCOS accessories

PIN assignment

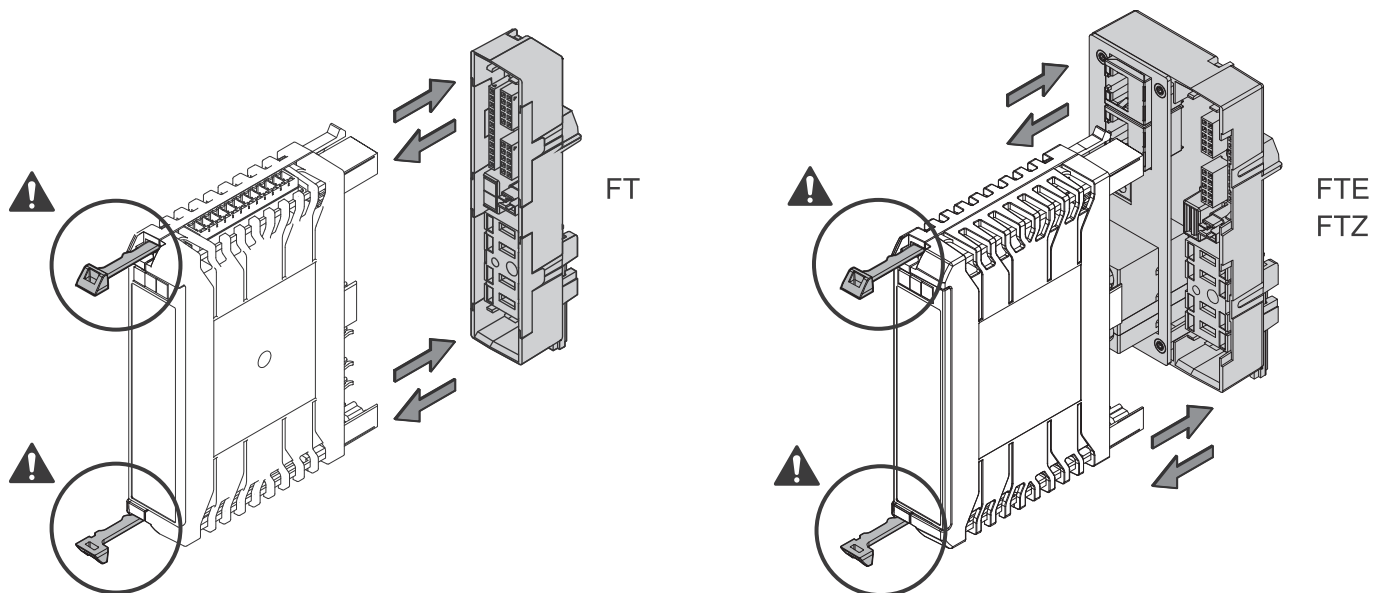


Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm
with integrated power bus
Modular expandable, integrated PE contact



Identification

Type	LCOS-FT-PE-350-0P-02-1
Part No.	780402.350.1

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded with modules, with PE direct contact, power module

Electrical data Power Bus

Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/channel
Voltage drop	<80 mV

Slots

Slots	1 × 35mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)

Technical data sheet

Load monitoring · LCOS accessories

Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

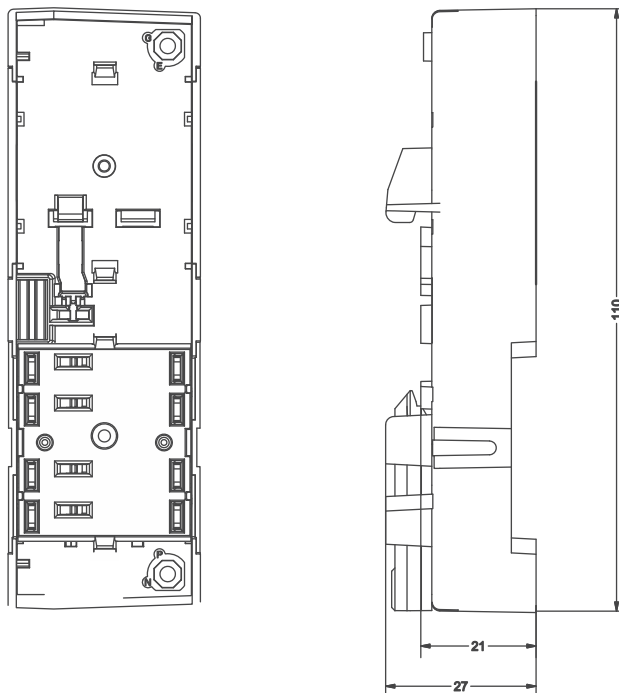
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

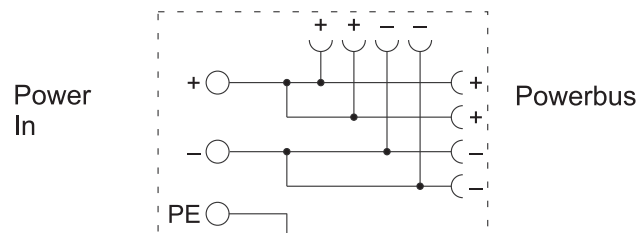
Dimensions



Technical data sheet

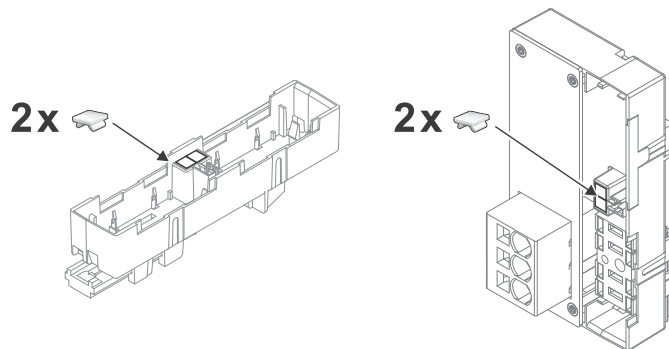
Load monitoring · LCOS accessories

PIN assignment

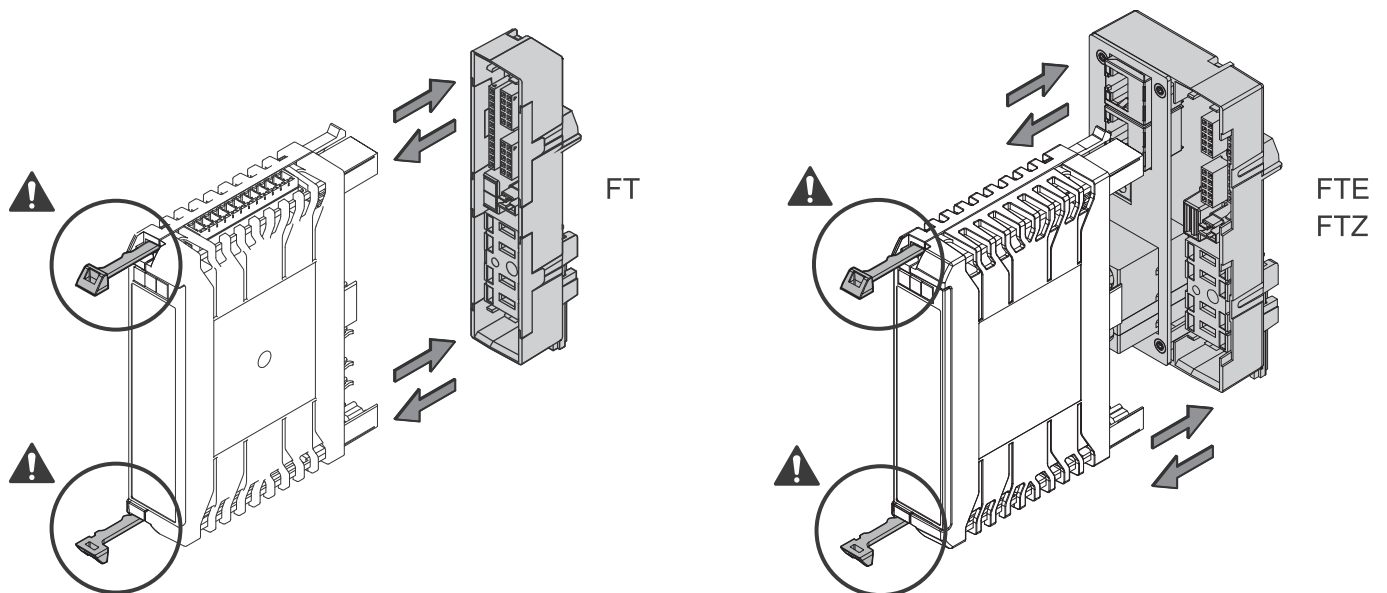


Use

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780982.000.2 - red
780983.000.2 - blue
716434 - yellow



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm
with integrated power bus
Modular expandable, integrated PE contact



Identification

Type	LCOS-FT-PE-350-0P-02-1
Part No.	780402.350.2

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded with modules, with PE direct contact, power module

Electrical data Power Bus

Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/channel
Voltage drop	<80 mV

Slots

Slots	1 × 35mm
-------	----------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)

Technical data sheet

Load monitoring · LCOS accessories

Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

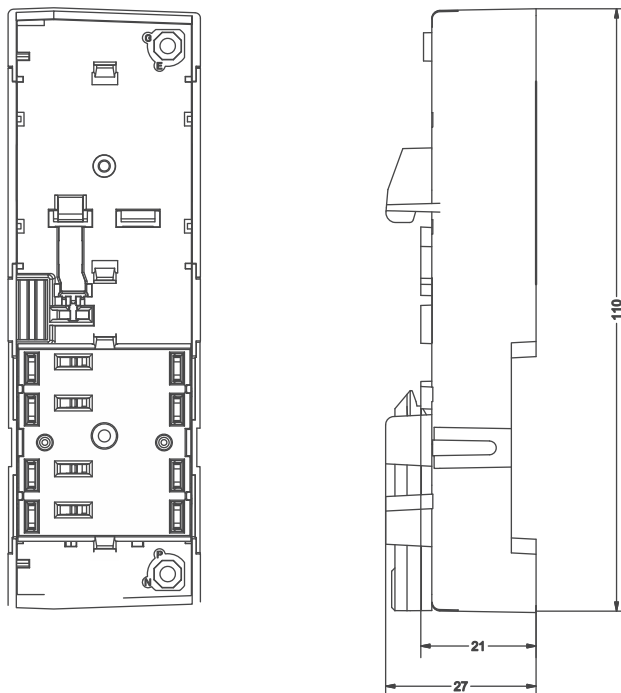
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

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

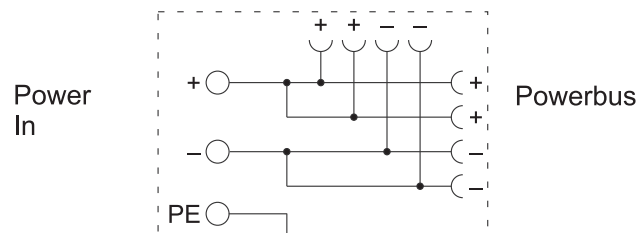
Dimensions



Technical data sheet

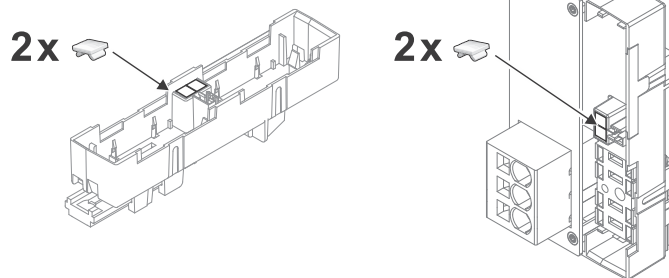
Load monitoring · LCOS accessories

PIN assignment

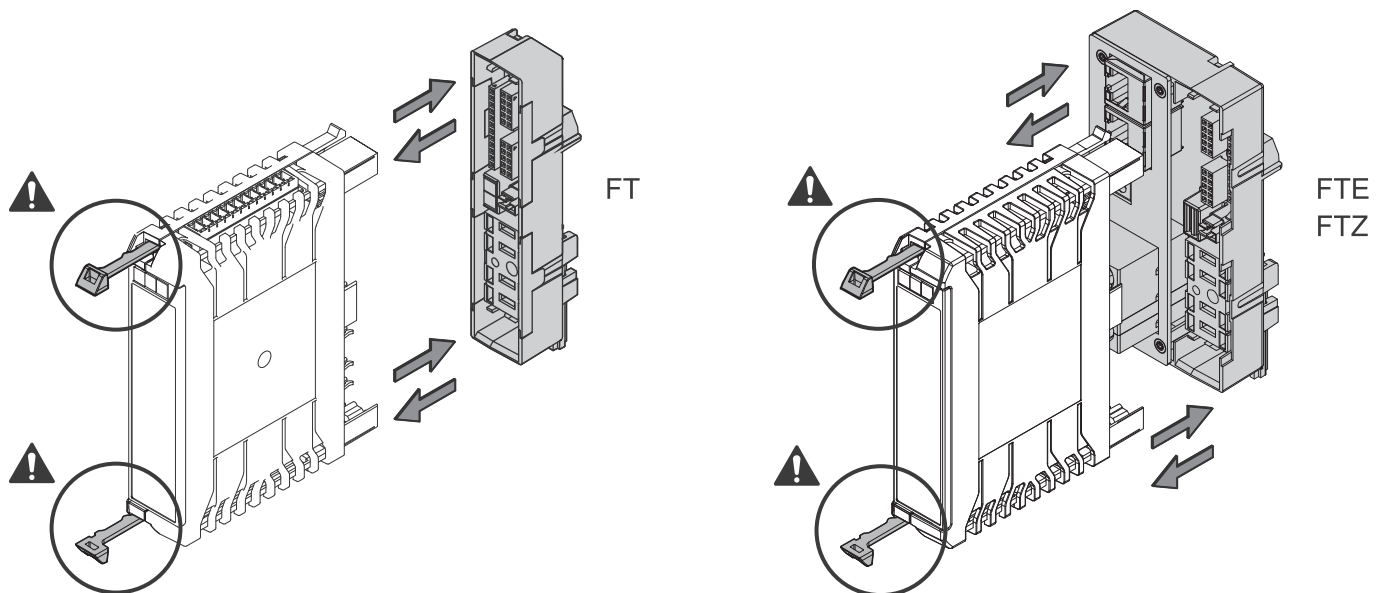


Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
with integrated power bus and data module
Modular expandable, integrated PE contact



Identification

Type LCOS-FT-PE-225-DP-03-1
Part No. [780403.225.1](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, can be expanded with modules, with PE direct contact, data and power module

Electrical data Power Bus

Operating voltage max. AC/DC 500 V
Operating current max. AC/DC 16 A/channel
Voltage drop <80 mV

Data module

Material PCB FR4
Material connector PE-HT
Operating voltage max. DC 30 V
Operating current max. DC 2 A/contact
System current max. DC 8 A
Pole number Input/output: 10-pin, outlet: 2×10-pin
Contact material CuZn

Technical data sheet

Load monitoring · LCOS accessories

Slots

Slots	1 × 22.5mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

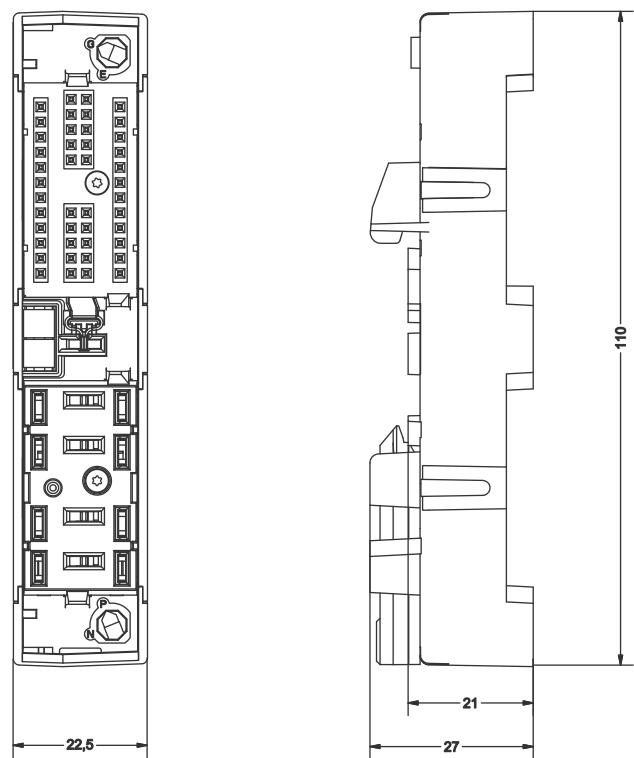
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

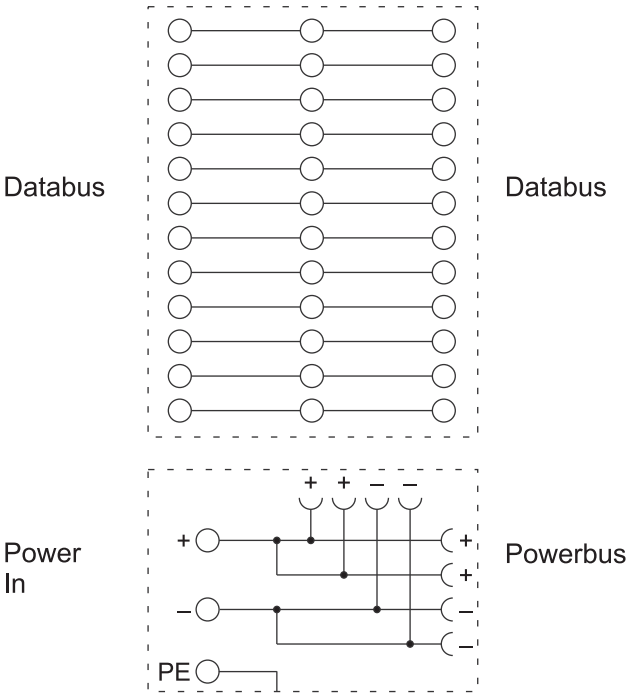
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	DNV-CG-0339

Dimensions



PIN assignment



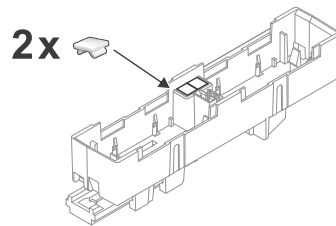
Technical data sheet

Load monitoring · LCOS accessories

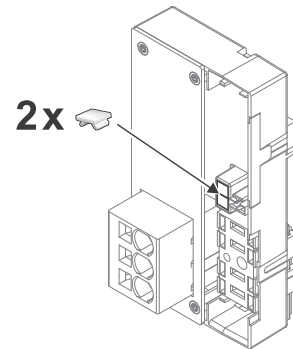
Use

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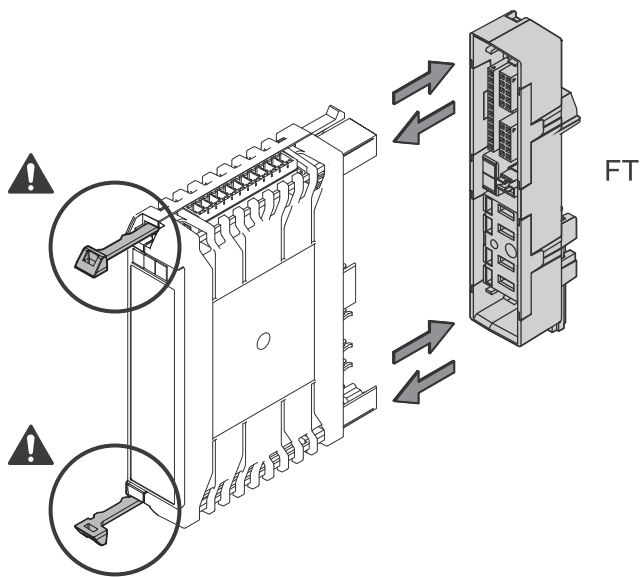
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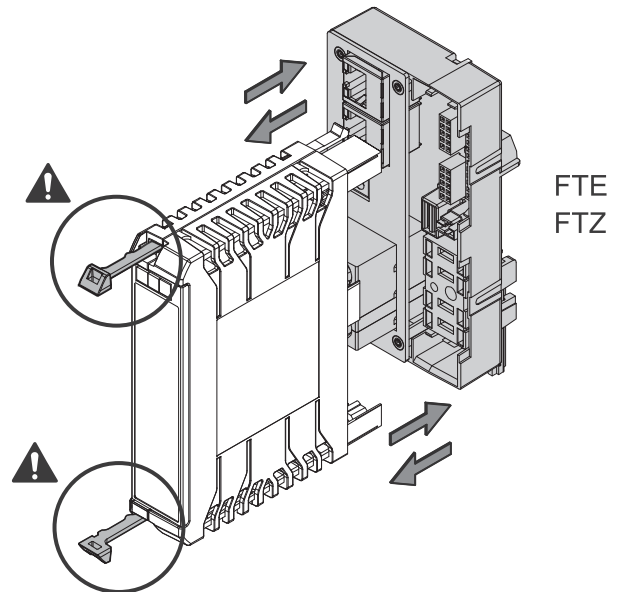
2x



Use



FT



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Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 22.5 mm
with integrated power bus and data module
Modular expandable, integrated PE contact



Identification

Type LCOS-FT-PE-225-DP-03-1
Part No. [780403.225.2](#)

Product version

Datasheet version 02

Description

System Components Function carrier
Description Function carrier 22.5 mm, can be expanded with modules, with PE direct contact, data and power module

Electrical data Power Bus

Operating voltage max. AC/DC 500 V
Operating current max. AC/DC 16 A/channel
Voltage drop <80 mV

Data module

Material PCB FR4
Material connector PE-HT
Operating voltage max. DC 30 V
Operating current max. DC 2 A/contact
System current max. DC 8 A
Pole number Input/output: 10-pin, outlet: 2×10-pin
Contact material CuZn

Technical data sheet

Load monitoring · LCOS accessories

Slots

Slots	1 × 22.5mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	22.5 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

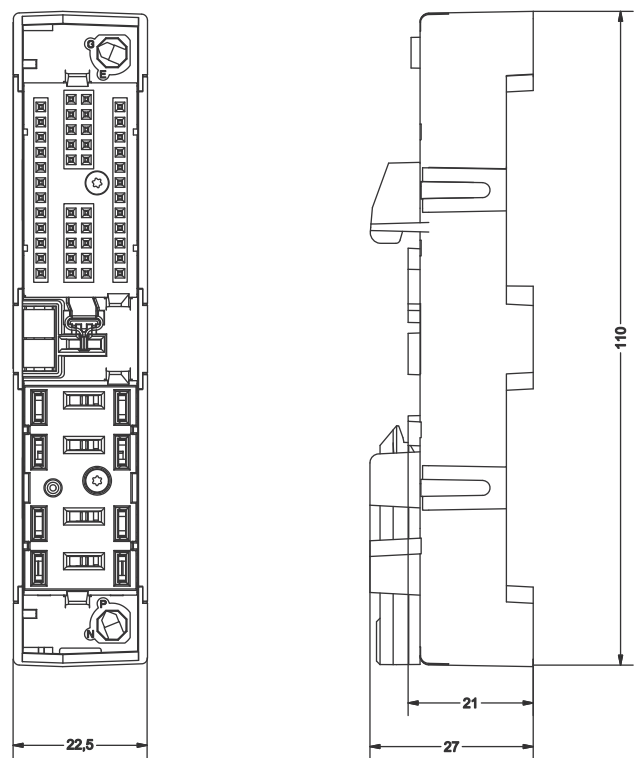
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

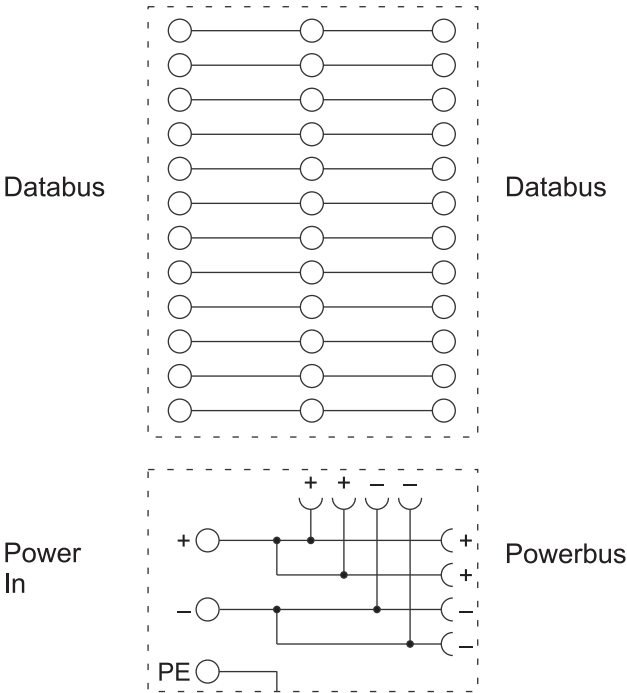
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	DNV-CG-0339

Dimensions



PIN assignment



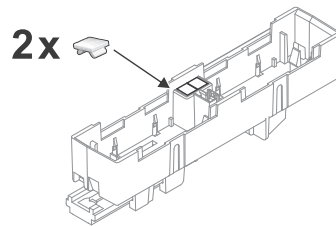
Technical data sheet

Load monitoring · LCOS accessories

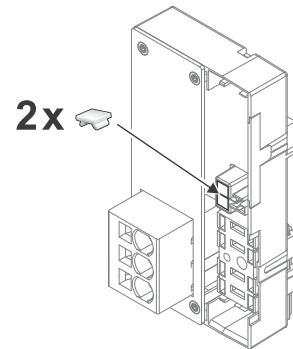
Use

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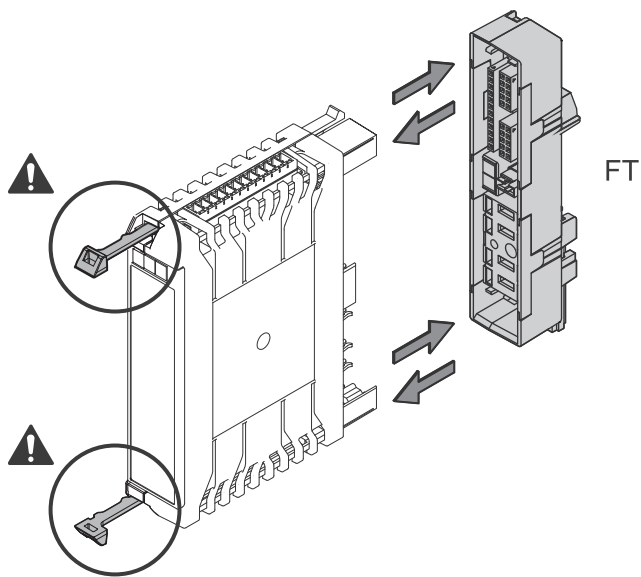
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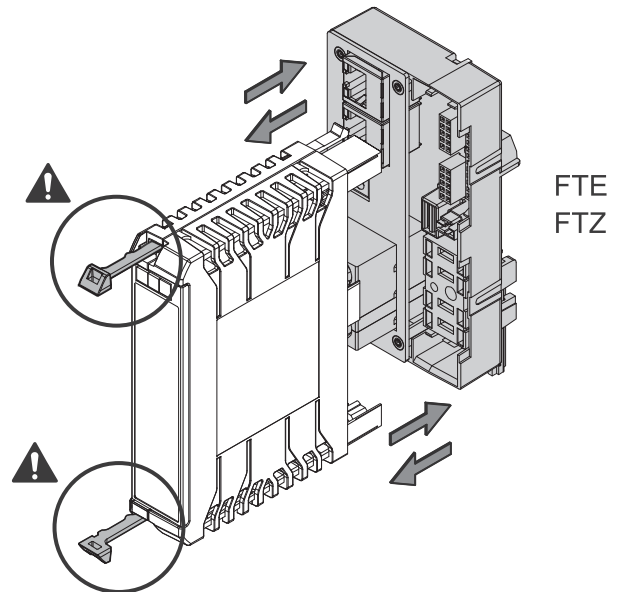
2x



Use



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Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm
with integrated power bus and data module
Modular expandable, integrated PE contact



Identification

Type	LCOS-FT-PE-350-DP-03-1
Part No.	780403.350.1

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded with modules, with PE direct contact, data and power module

Electrical data Power Bus

Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/channel
Voltage drop	<80 mV

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 10-pin, outlet: 2×10-pin
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Slots

Slots	1 × 35mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.04 kg
PU (units)	1

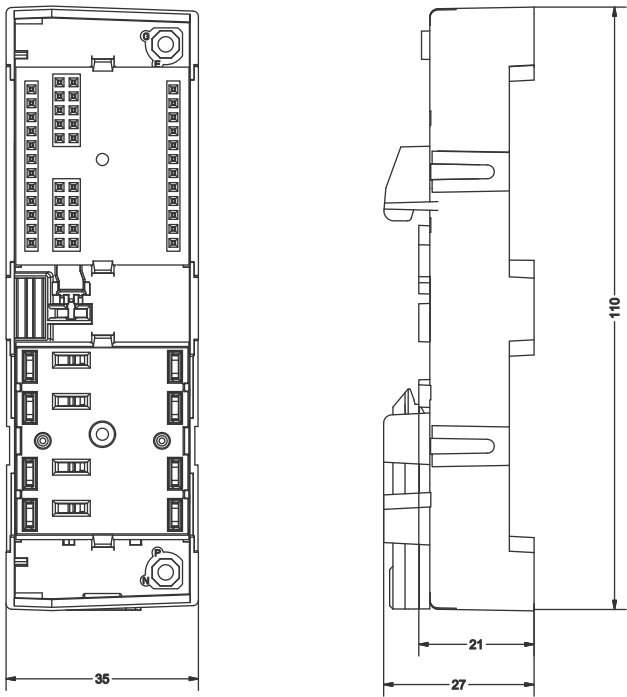
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

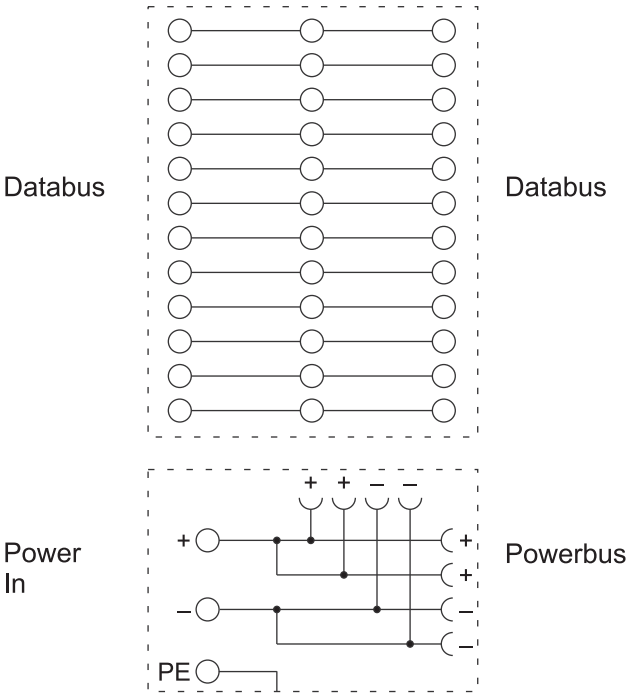
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	DNV-CG-0339

Dimensions



PIN assignment



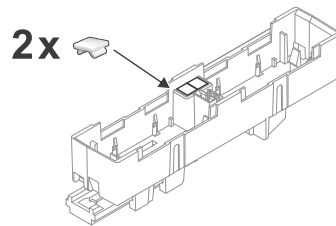
Technical data sheet

Load monitoring · LCOS accessories

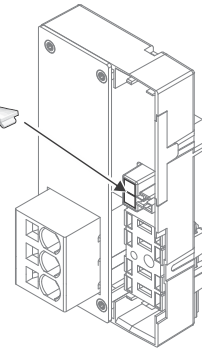
Use

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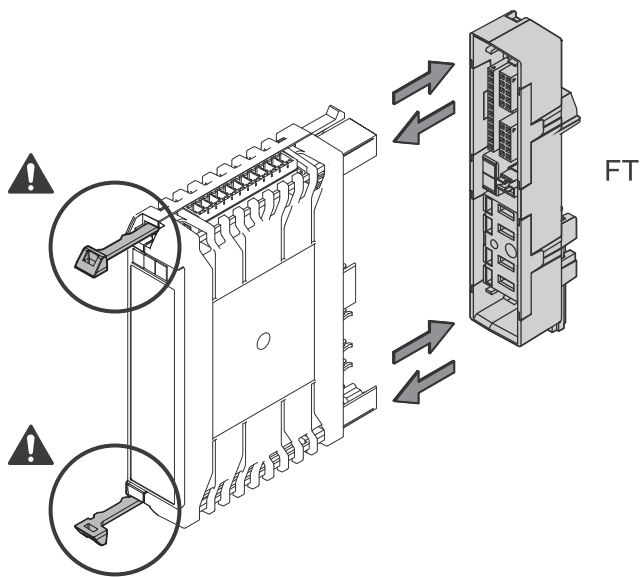
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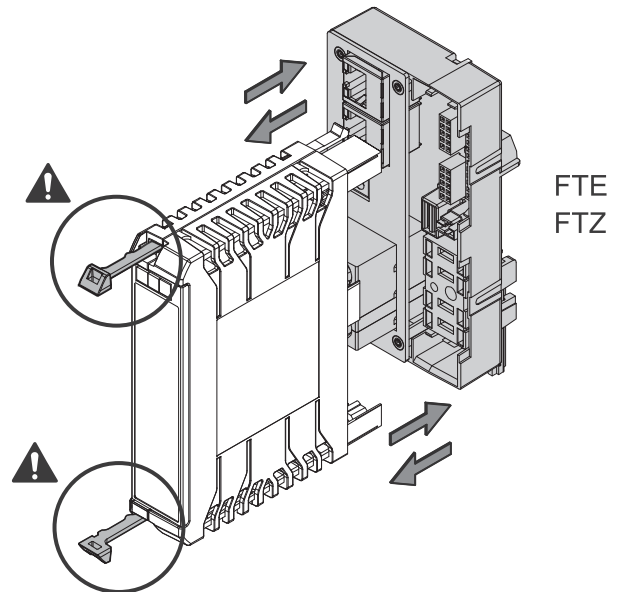
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Use



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Technical data sheet

Load monitoring · LCOS accessories

LCOS function carrier 35 mm
with integrated power bus and data module
Modular expandable, integrated PE contact



Identification

Type	LCOS-FT-PE-350-DP-03-1
Part No.	780403.350.2

Product version

Datasheet version	02
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Description

System Components	Function carrier
Description	Function carrier 35 mm, can be expanded with modules, with PE direct contact, data and power module

Electrical data Power Bus

Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/channel
Voltage drop	<80 mV

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 10-pin, outlet: 2×10-pin
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Slots

Slots	1 × 35mm
-------	----------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Power Dissipation	9 W @ 20°C, 4 W @ 60°C, 3 W @ 75°C
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	35.0 mm × 110.0 mm × 27.0 mm
Weight/unit	0.06 kg
PU (units)	10

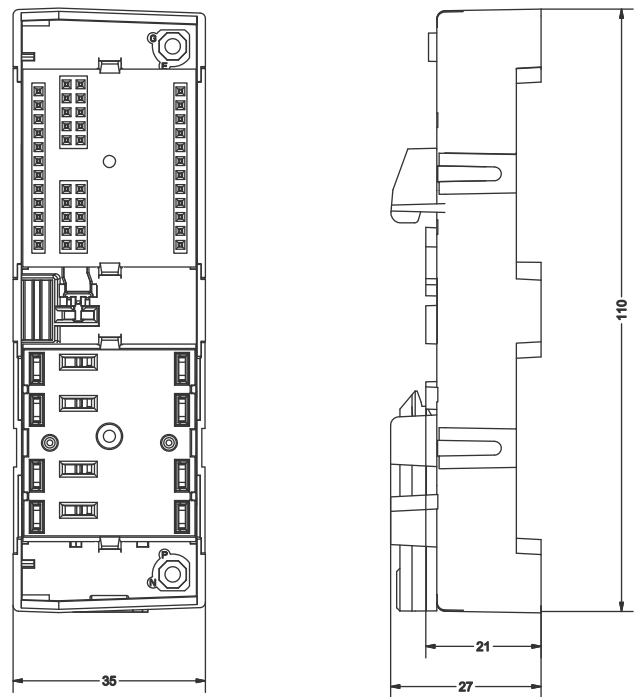
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

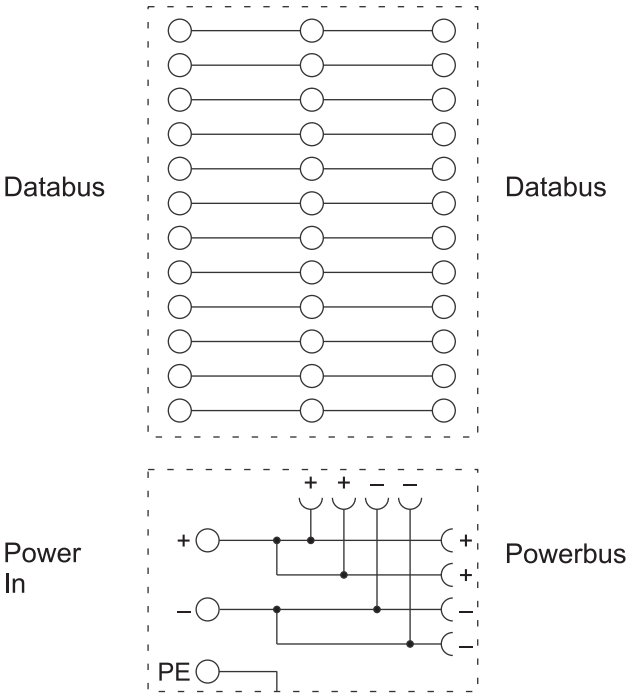
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	DNV-CG-0339

Dimensions



PIN assignment



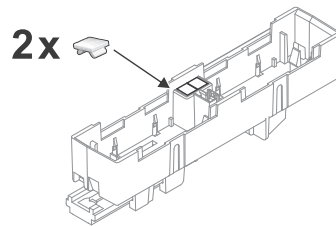
Technical data sheet

Load monitoring · LCOS accessories

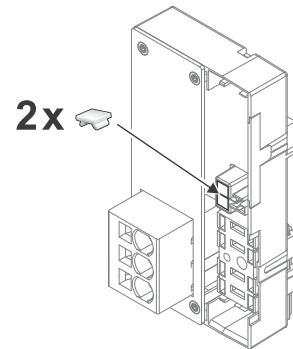
Use

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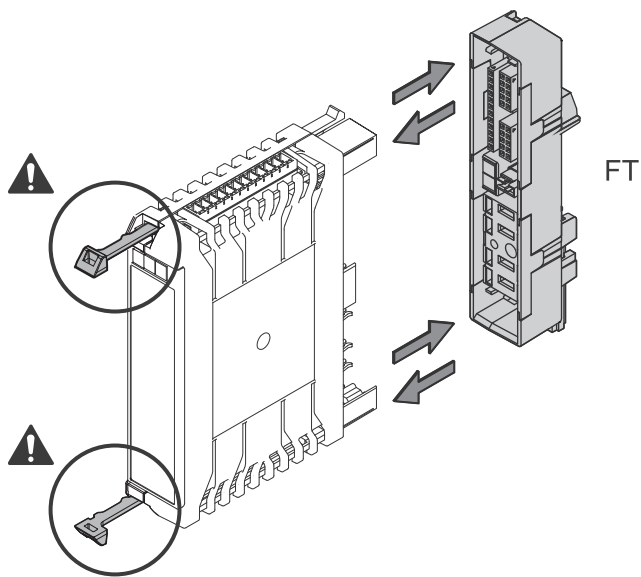
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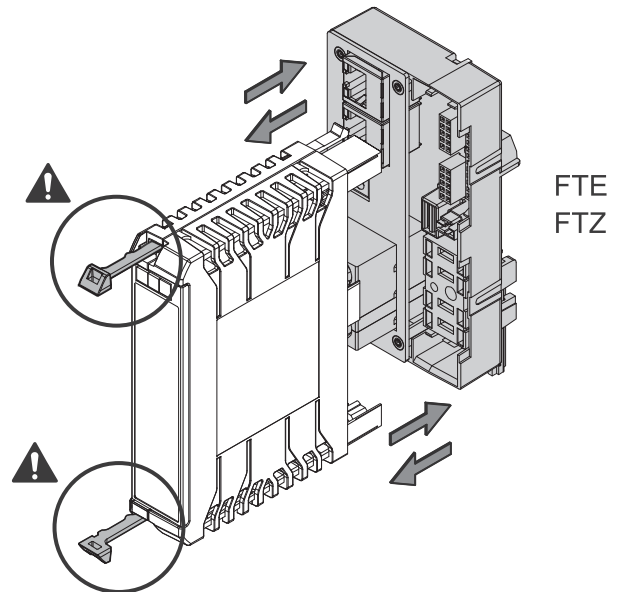
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Use



FT

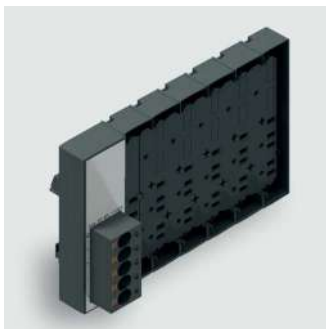


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Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, passive
Power bus max. AC/DC 230 V, 100 A



Identification

Type	LCOS-LUNA-ES-006-NC-03-1-L
Part No.	780503.006.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with supply
Description	LCOS-LUNA power supply module passive, with power supply max. AC/DC 230 V, 6 slots, width: 170 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Slots

Slots	6-way
-------	-------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.

Technical data sheet

Load monitoring · LCOS accessories

Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	170.0 mm × 110.0 mm × 47.0 mm
Weight/unit	0.238 kg
PU (units)	1

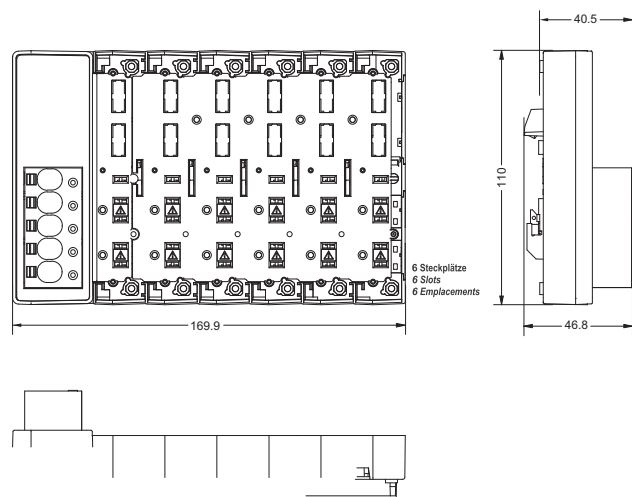
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

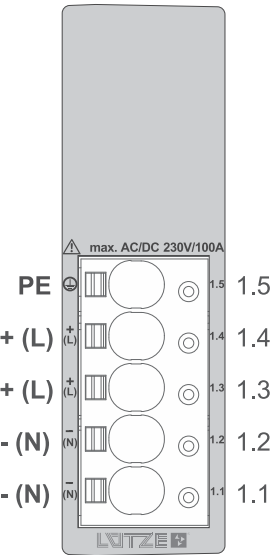
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Certifications	DNV (TAA00002SY) cURus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

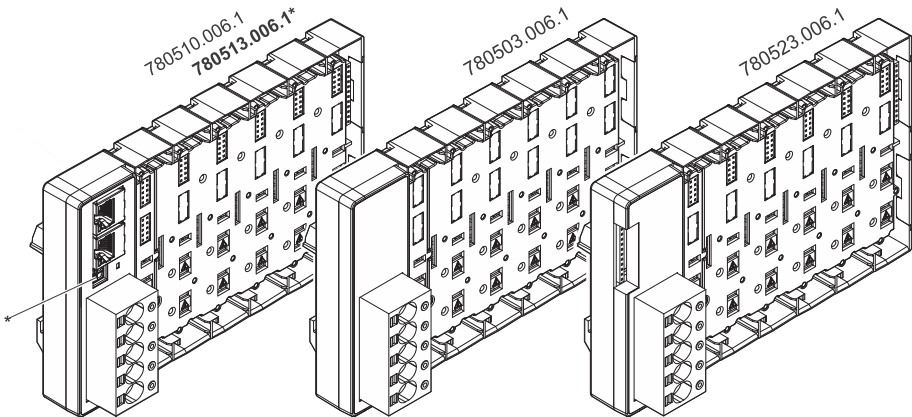


PIN assignment

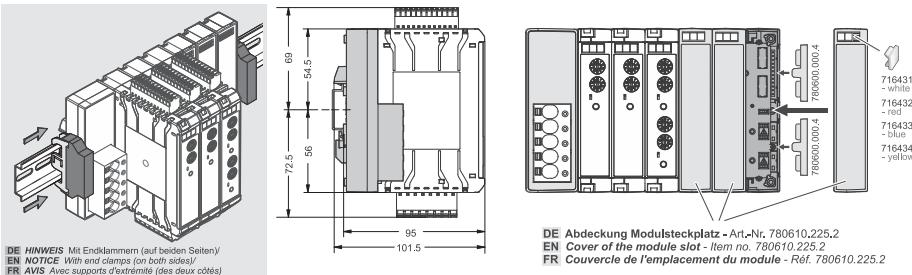
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780503.011.1



Use



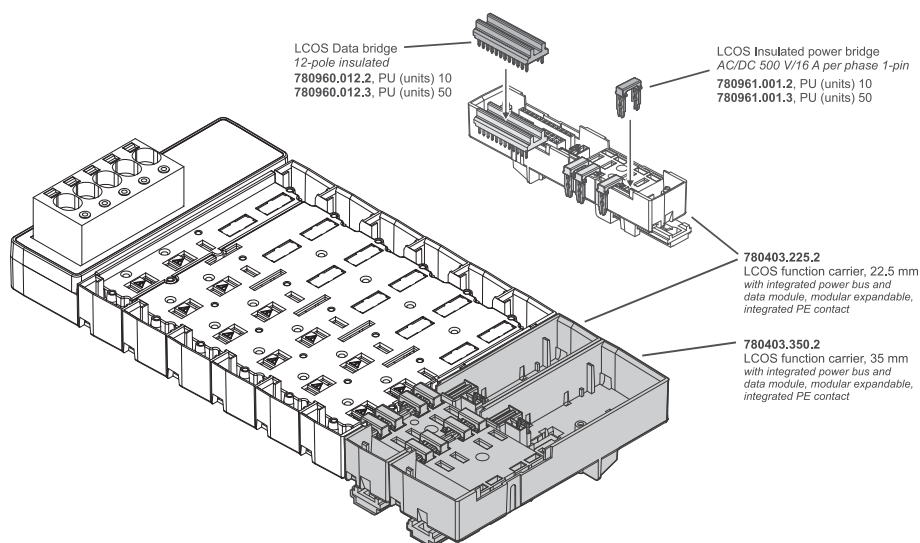
Use



Technical data sheet

Load monitoring · LCOS accessories

Use



Mounting diagram

DE Montage – Hutschiene

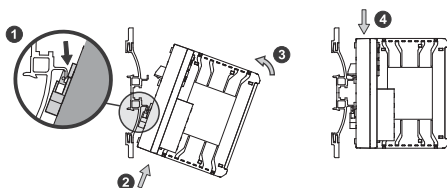
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail

Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau

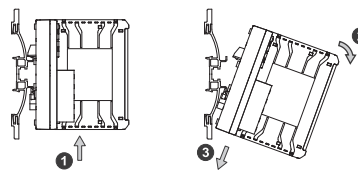
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene

EN Dismounting – DIN Rail

FR Démontage – Rail profilé chapeau

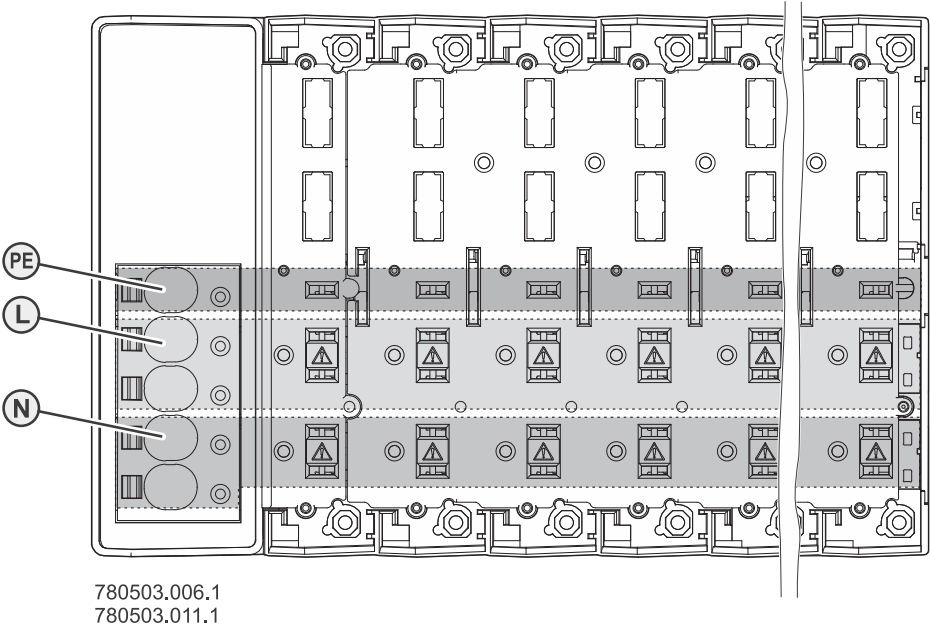


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8-9 mm = 0.31 ... 0.35 inch		

Potential groups



780503.006.1
780503.011.1

1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE): PE		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
(L): L („+“)		FR Distances d'isolement dans l'air et lignes de fuite minimales
(N): N („-“)		AC 3000V (>3mm; CTI 600): L+N ↔ PE
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3 Funktionsisolierung/ Fonctional insulation/ Isolation fonctionnelle
-		-
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	-
3.1	Basisisolierung/ Basic insulation/ Isolation de base	
DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales		AC 1500V (>1,5mm; CTI 600): L ↔ N

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, passive
Power bus max. AC/DC 230 V, 100 A



Identification

Type	LCOS-LUNA-ES-011-NC-03-1-L
Part No.	780503.011.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with supply
Description	LCOS-LUNA power supply module passive, with power supply max. AC/DC 230 V, 11 slots, width: 282.5 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Slots

Slots	11-way
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.

Technical data sheet

Load monitoring · LCOS accessories

Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	282.5 mm × 110.0 mm × 47.0 mm
Weight/unit	0.364 kg
PU (units)	1

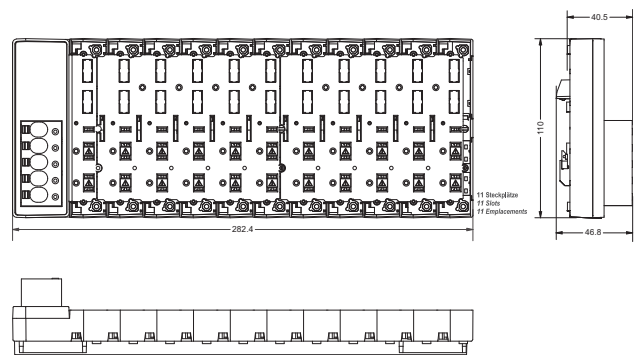
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

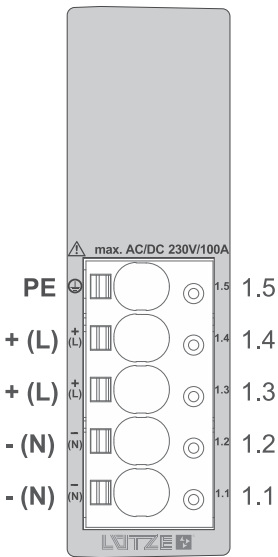
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cULus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

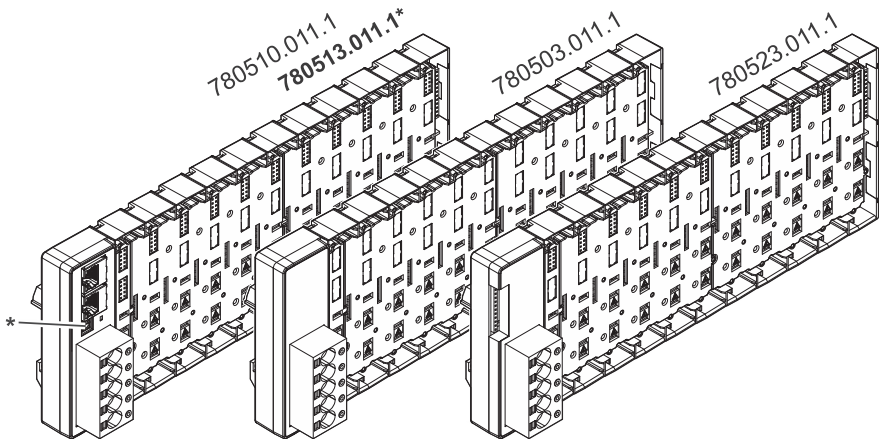


PIN assignment

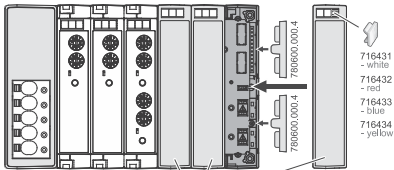
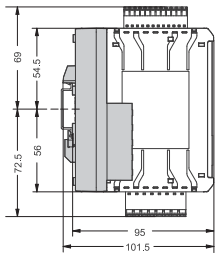
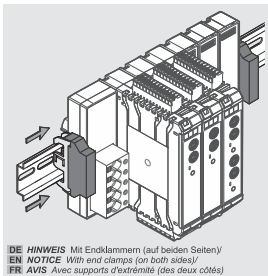
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Use



Use

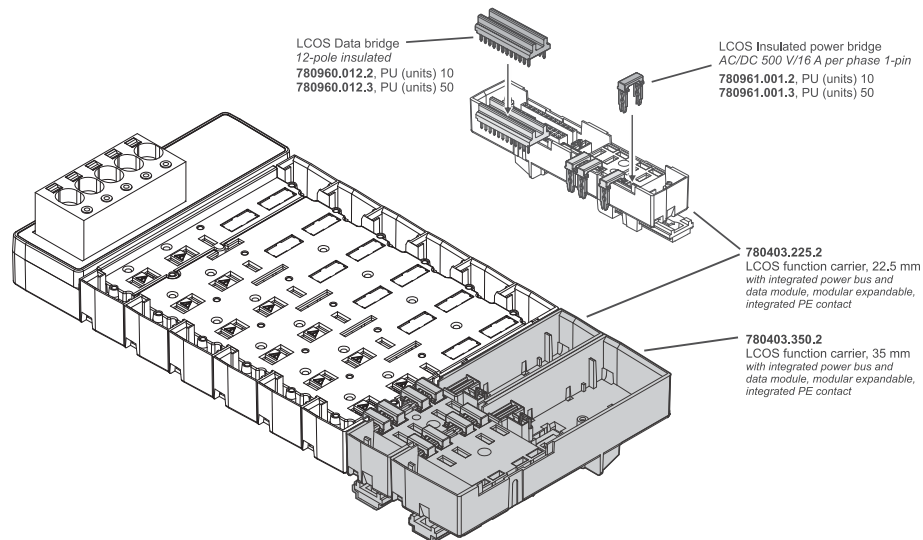


DE Abdeckung Modulsteckplatz - Art.-Nr. 780610.225.2
EN Cover of the module slot - Item no. 780610.225.2
FR Couverture de l'emplacement du module - Réf. 780610.225.2

Technical data sheet

Load monitoring · LCOS accessories

Use



Mounting diagram

DE Montage – Hutschiene

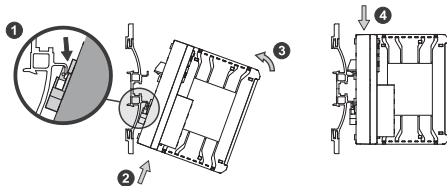
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail

Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau

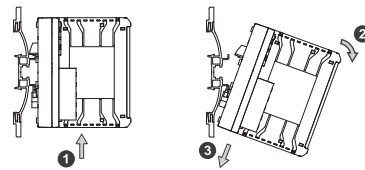
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene

EN Dismounting – DIN Rail

FR Démontage – Rail profilé chapeau

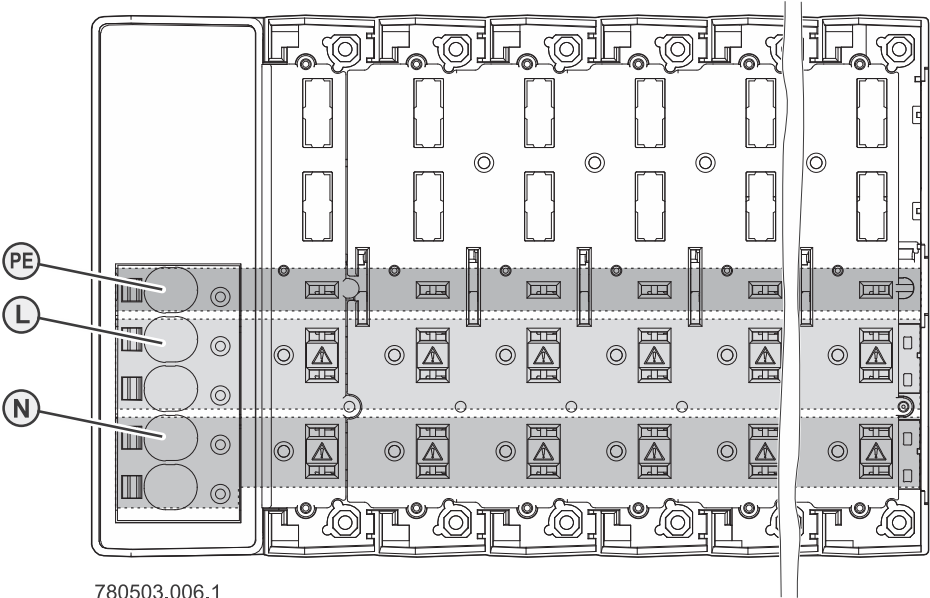


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8-9 mm = 0.31 ... 0.35 inch		

Potential groups



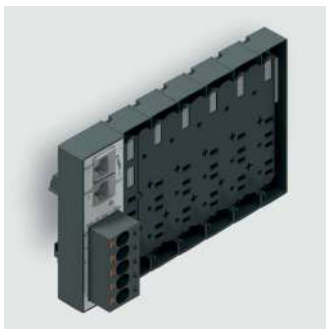
780503.006.1
780503.011.1

1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE): PE		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
(L): L („+“)		FR Distances d'isolement dans l'air et lignes de fuite minimales
(N): N („-“)		AC 3000V (>3mm; CTI 600): L+N ↔ PE
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3 Funktionsisolierung/ Fonctional insulation/ Isolation fonctionnelle
-		-
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	-
3.1	Basisisolierung/ Basic insulation/ Isolation de base	
DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales		AC 1500V (>1,5mm; CTI 600): L ↔ N

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, active
Data bus, Power bus DC 24 V, 100 A



Identification

Type	LCOS-LUNA-ES-006-UN-00-1-L
Part No.	780510.006.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus and power supply
Description	LCOS-LUNA power supply module active, with power supply DC 24 V, 2×RJ45, 6 slots, width: 170 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. DC 30 V
Operating current	Max. DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	6-way
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Technical data sheet

Load monitoring · LCOS accessories

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	170.0 mm × 110.0 mm × 47.0 mm
Weight/unit	0.3 kg
PU (units)	1

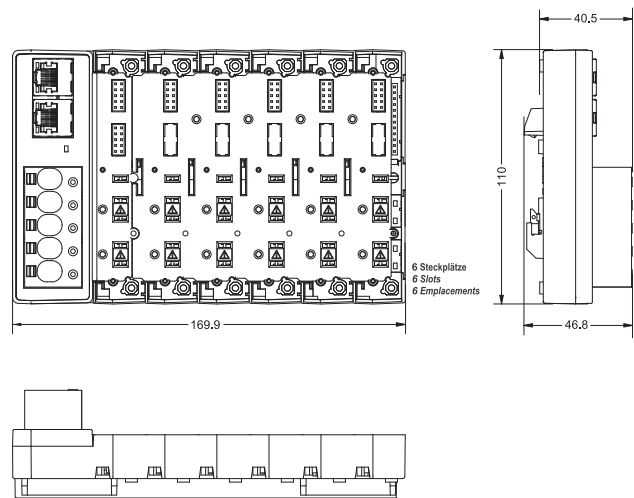
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

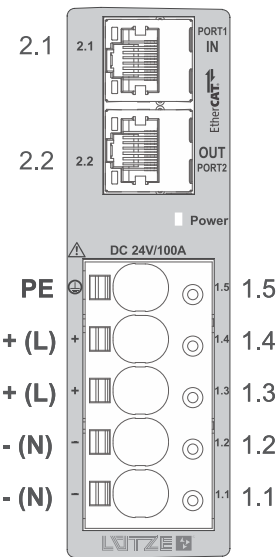
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cULus (E170585)
Standards	IEC/EN/UL 61000-6-2 IEC/EN/UL 61000-6-4 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

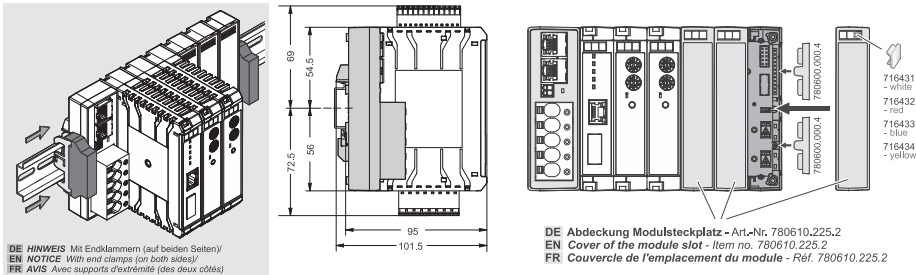


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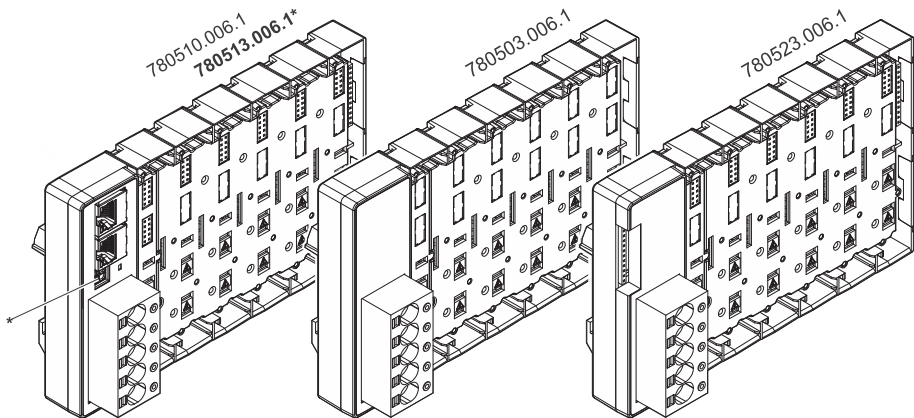
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780510.011.1



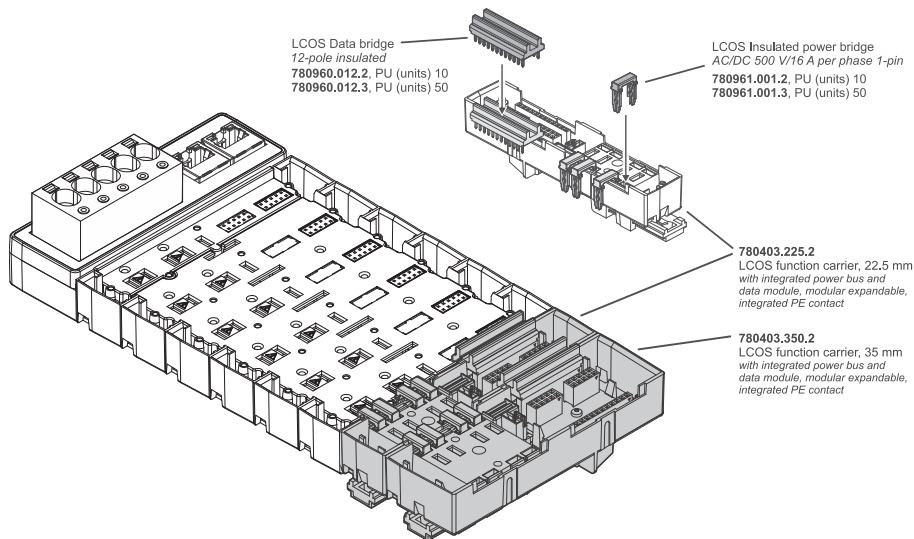
Use



Use



Use

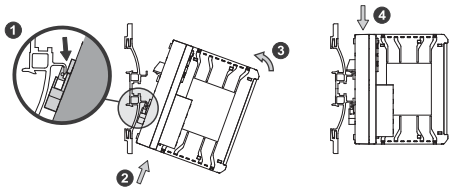


Mounting diagram

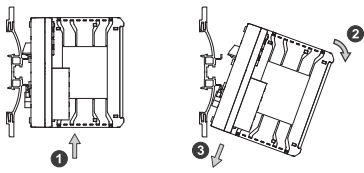
DE Montage – Hutschiene
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

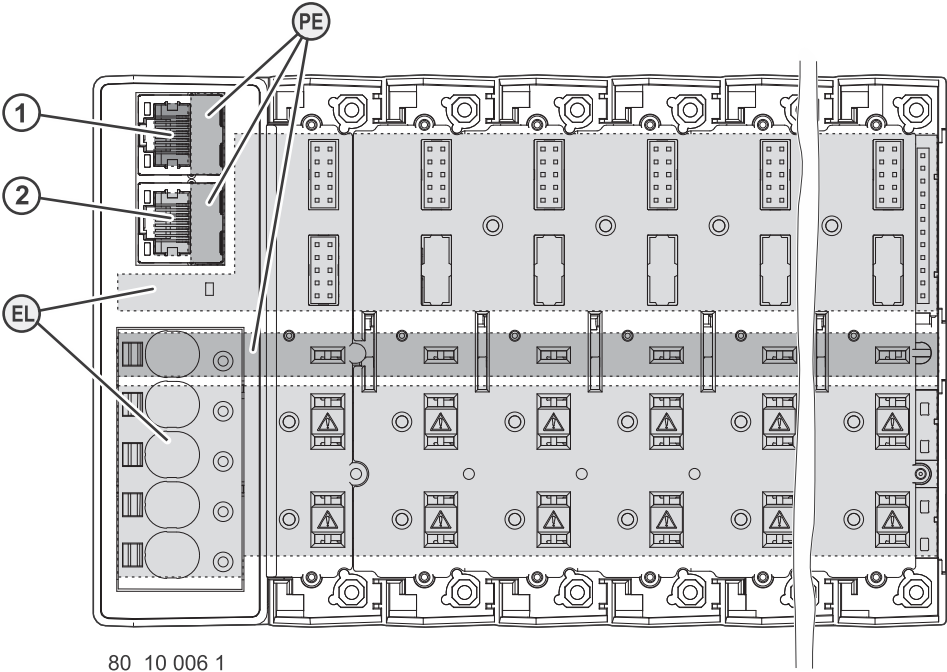


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8-9 mm = 0.31 ... 0.35 inch		

Potential groups



1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE):	PE	–
(EL):	Data-Bus+Power-Bus	3.3 Funktionsisolierung/ Fonctional insulation/ Isolation fonctionnelle
(1):	ETH1	DC 2000 V : 1 + 2 ⇔ PE + EL
(2):	ETH2	1 ⇔ 2 AC 500 V : PE ⇔ EL
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	
1nF:	1 ⇔ PE 2 ⇔ PE	
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	
3.1	Basisisolierung/ Basic insulation/ Isolation de base	–

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, active
Data bus, Power bus DC 24 V, 100 A



Identification

Type	LCOS-LUNA-ES-011-UN-00-1-L
Part No.	780510.011.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus and power supply
Description	LCOS-LUNA power supply module active, with power supply DC 24 V, 2×RJ45, 11 slots, width: 282.5 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. DC 30 V
Operating current	Max. DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	11-way
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Technical data sheet

Load monitoring · LCOS accessories

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	282.5 mm × 110.0 mm × 47.0 mm
Weight/unit	0.4 kg
PU (units)	1

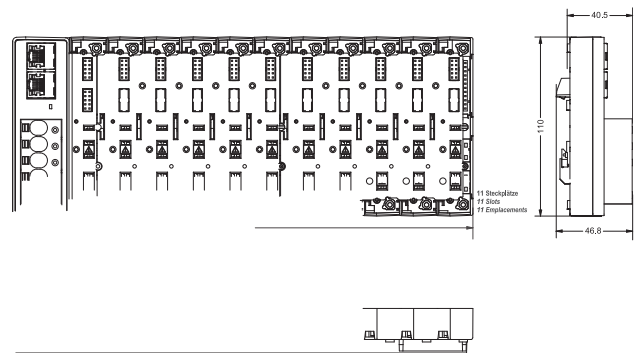
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

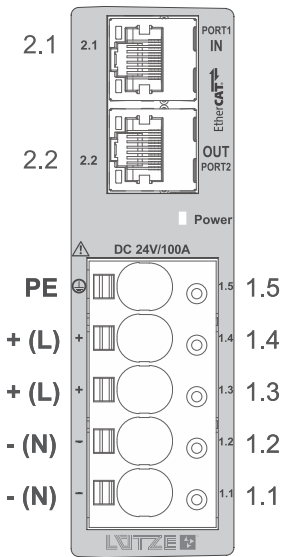
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cURus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

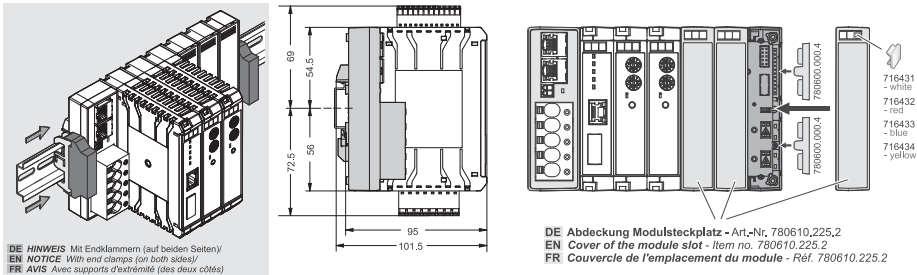


PIN assignment

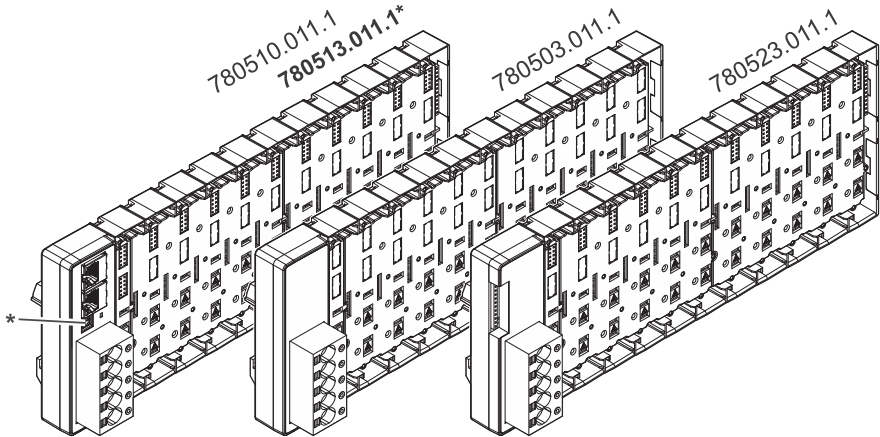
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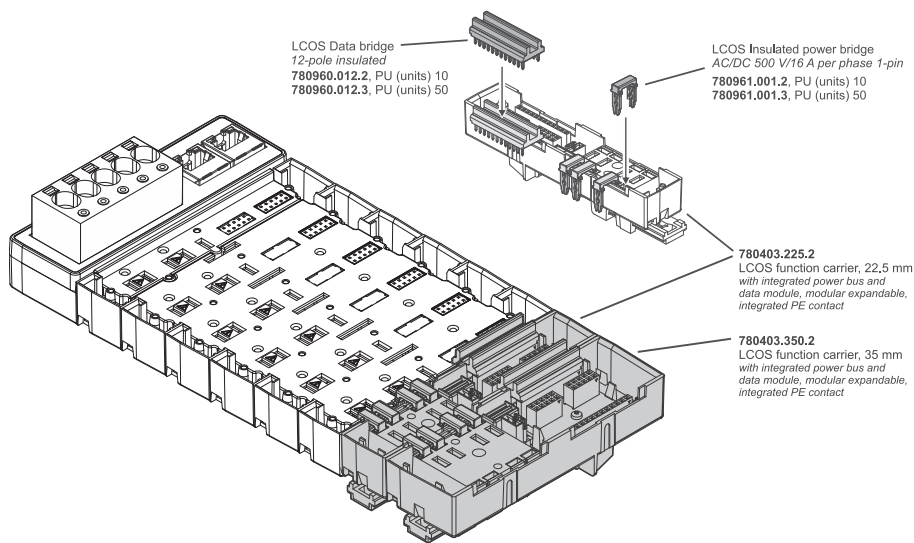
Use



Use



Use

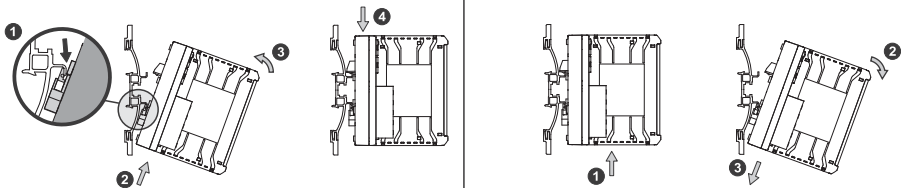


Mounting diagram

- DE Montage – Hutschiene**
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm
- DE Demontage – Hutschiene**
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

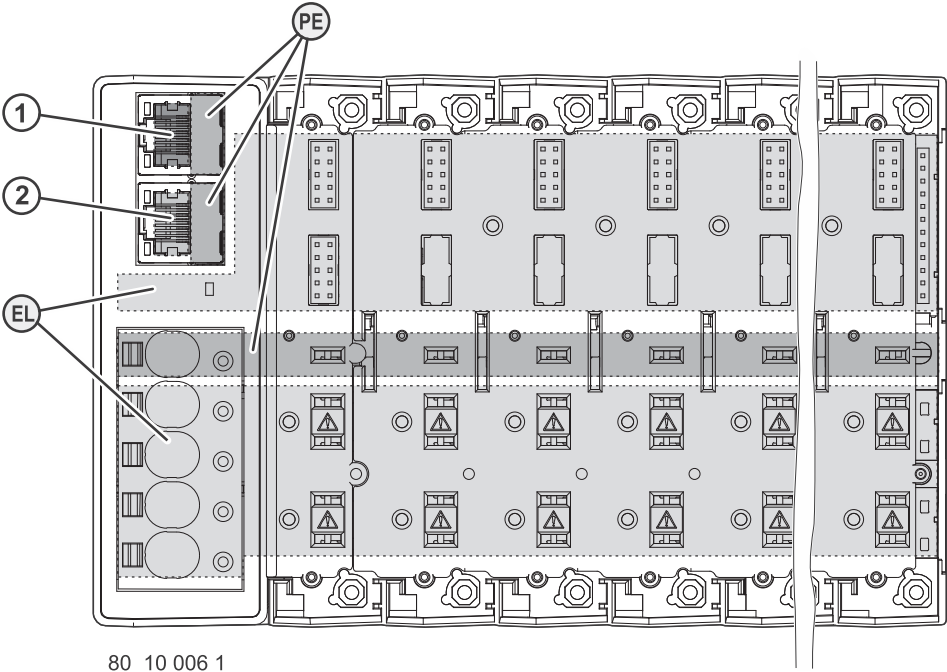


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8-9 mm = 0.31 ... 0.35 inch		

Potential groups



1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE): PE		–
(EL): Data-Bus+Power-Bus		
(1): ETH1		3.3 Funktionsisolierung/ Fonctional insulation/ Isolation fonctionnelle
(2): ETH2		
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	DC 2000 V : 1 + 2 ⇔ PE + EL 1 ⇔ 2
1nF:		AC 500 V : PE ⇔ EL
1 ⇔ PE		
2 ⇔ PE		
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	
3.1 Basisisolierung/ Basic insulation/ Isolation de base		–

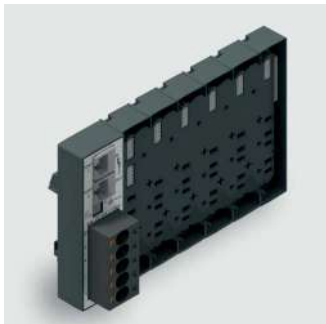
Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, active

Data bus, Power bus max. AC/DC 230 V, 100 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-LUNA-ES-006-UN-03-1-L
Part No.	780513.006.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus and power supply
Description	LCOS-LUNA power supply module active, with power supply max. AC/DC 230 V, 2×RJ45, Control voltage connection: DC 24 V, 6 slots, width: 170 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	Max. DC 2 A
Protection device	Polarity reversal protection
Connection type input	Spring terminal 2 × Push-In, min. 0,14 mm ² , max. 1,5 mm ²

Technical data sheet

Load monitoring · LCOS accessories

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	6-way
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	170.0 mm × 110.0 mm × 47.0 mm
Weight/unit	0.3 kg
PU (units)	1

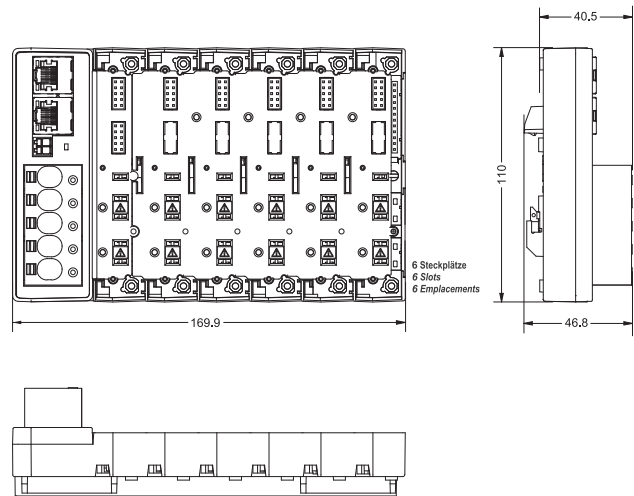
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

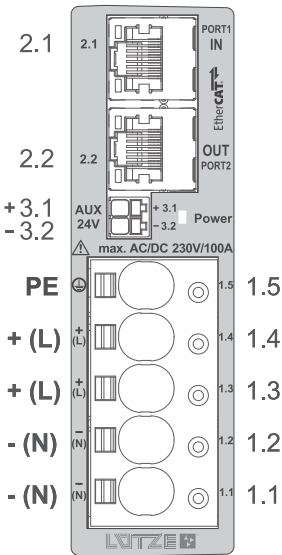
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cURus (E170585)
Standards	IEC/EN/UL 61000-6-2 IEC/EN/UL 61000-6-4 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 B Class A

Dimensions

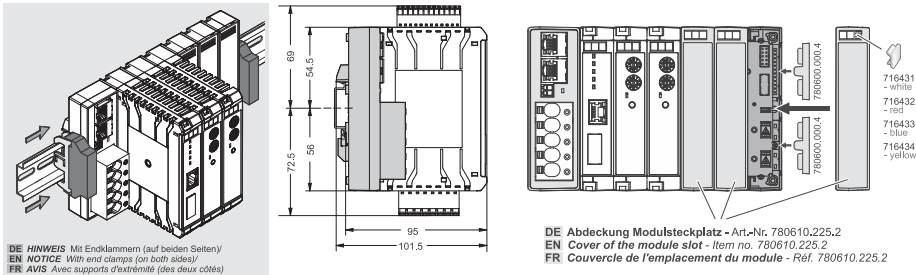


PIN assignment

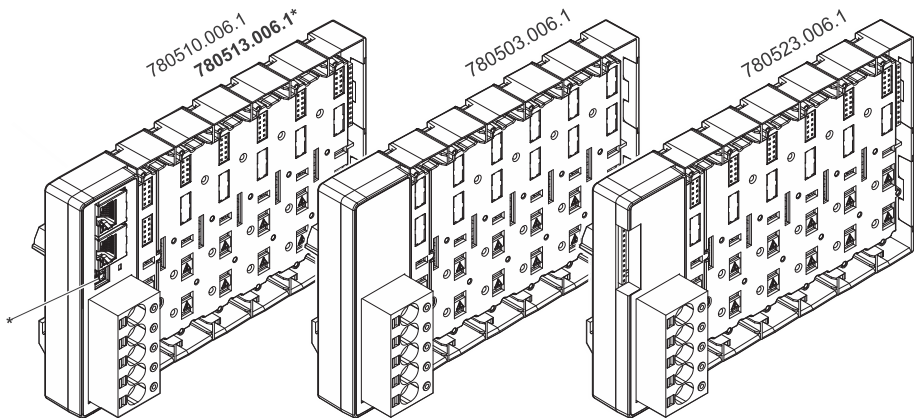
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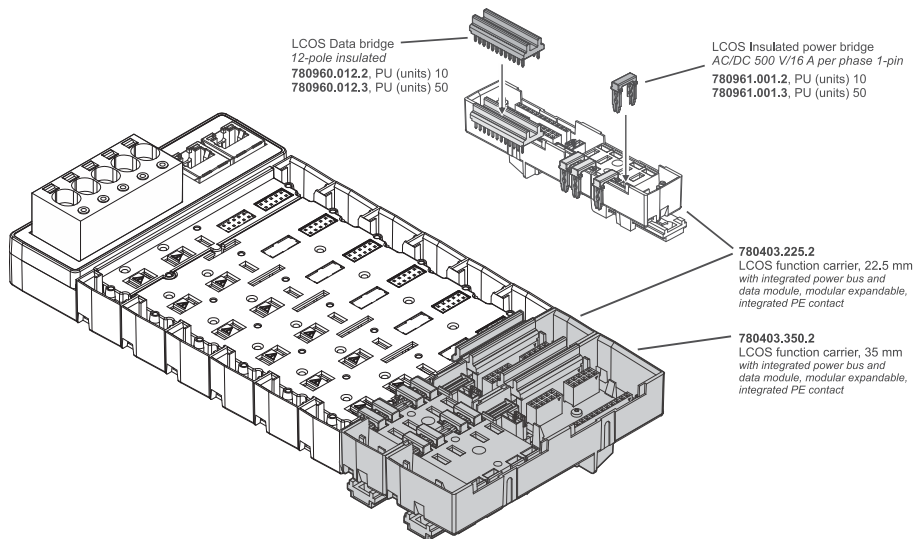
Use



Use



Use

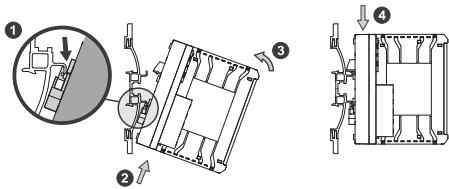


Mounting diagram

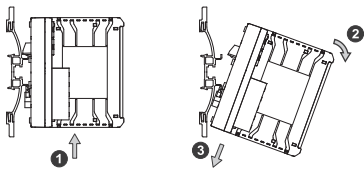
DE Montage – Hutschiene
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten
Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices
(above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux
appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

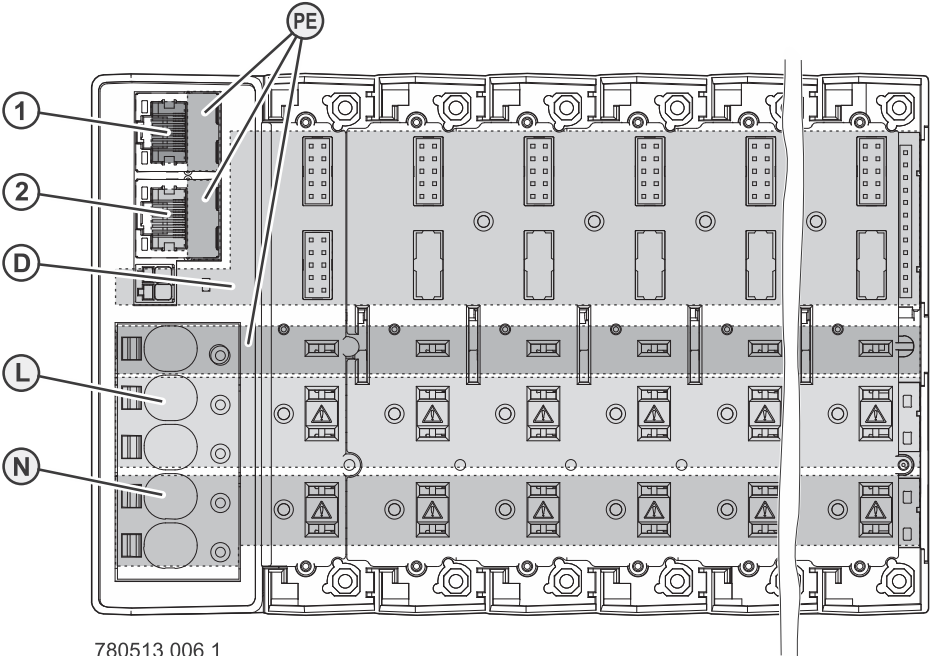


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8 - 9 mm = 0.31 ... 0.35 inch		

Potential groups



780513 006 1

1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 DE Verstärkte Isolierung/ EN Reinforced insulation/ FR Isolation renforcée
(PE): PE		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales AC 3000V (>3mm; CTI 600): L+N ⇔ PE+D+1+2
(1): ETH1		
(2): ETH2		
(D): Data-Bus		
(L): L („+“)		
(N): N („-“)		
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3 DE Funktionsisolierung/ EN Functional insulation/ FR Isolation fonctionnelle
1nF:		DC 2000 V:
1 ⇔ PE		1 + 2 ⇔ PE + D
2 ⇔ PE		1 ⇔ 2
		AC 500 V:
		PE ⇔ D
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	
3.1 Basisisolierung/ Basic insulation/ Isolation de base		
DE Minimale Luft und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales AC 1500V (>1,5mm; CTI 600): L ⇔ N		

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Supply module, active

Data bus, Power bus max. AC/DC 230 V, 100 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-LUNA-ES-011-UN-03-1-L
Part No.	780513.011.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus and power supply
Description	LCOS-LUNA power supply module active, with power supply max. AC/DC 230 V, 2×RJ45, Control voltage connection: DC 24 V, 11 slots, width: 282.5 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	Max. DC 2 A
Protection device	Polarity reversal protection
Connection type input	Spring terminal 2 × Push-In, min. 0,14 mm ² , max. 1,5 mm ²

Technical data sheet

Load monitoring · LCOS accessories

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	11-way
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	282.5 mm × 110.0 mm × 47.0 mm
Weight/unit	0.4 kg
PU (units)	1

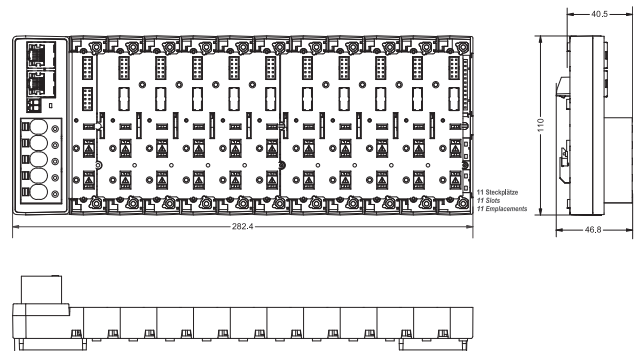
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

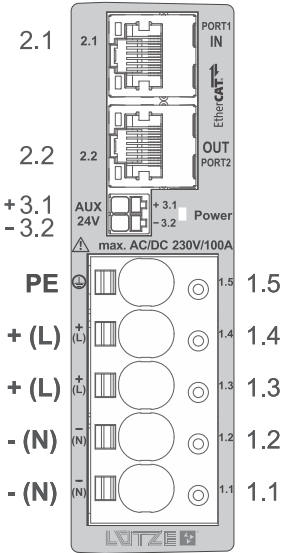
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cURus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 B Class A

Dimensions

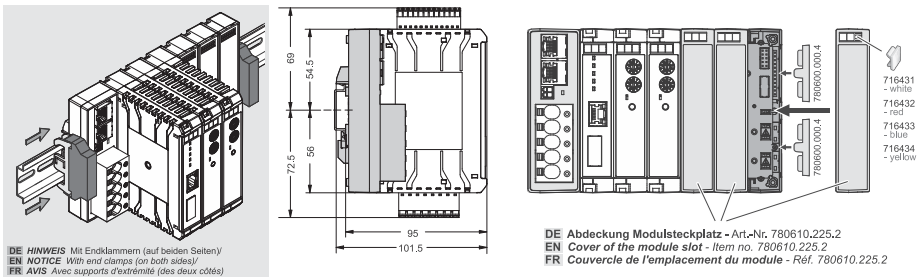


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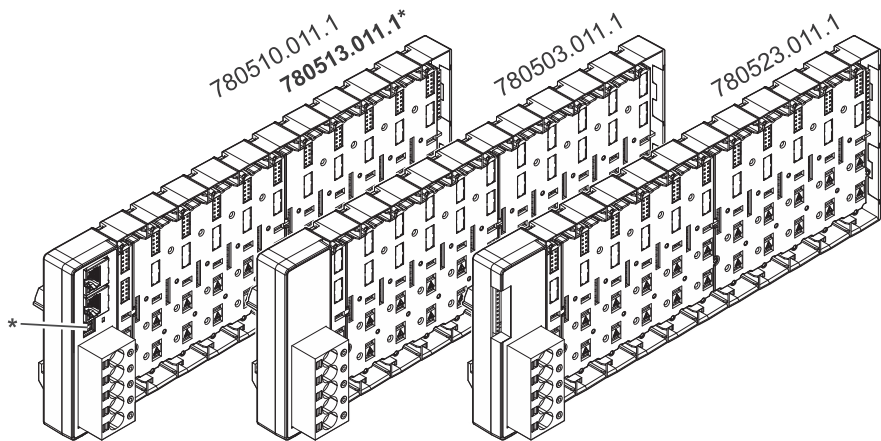
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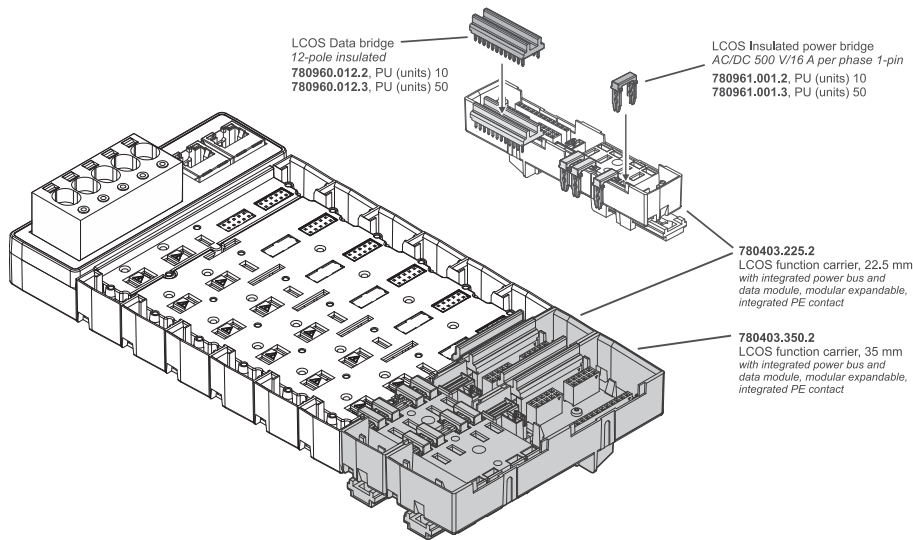
Use



Use



Use

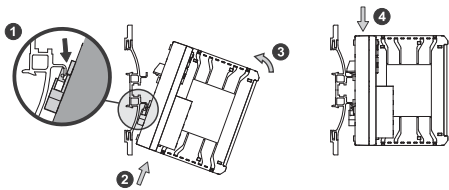


Mounting diagram

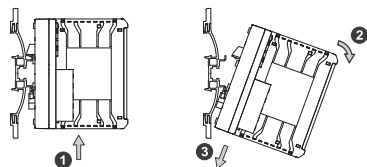
DE Montage – Hutschiene
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

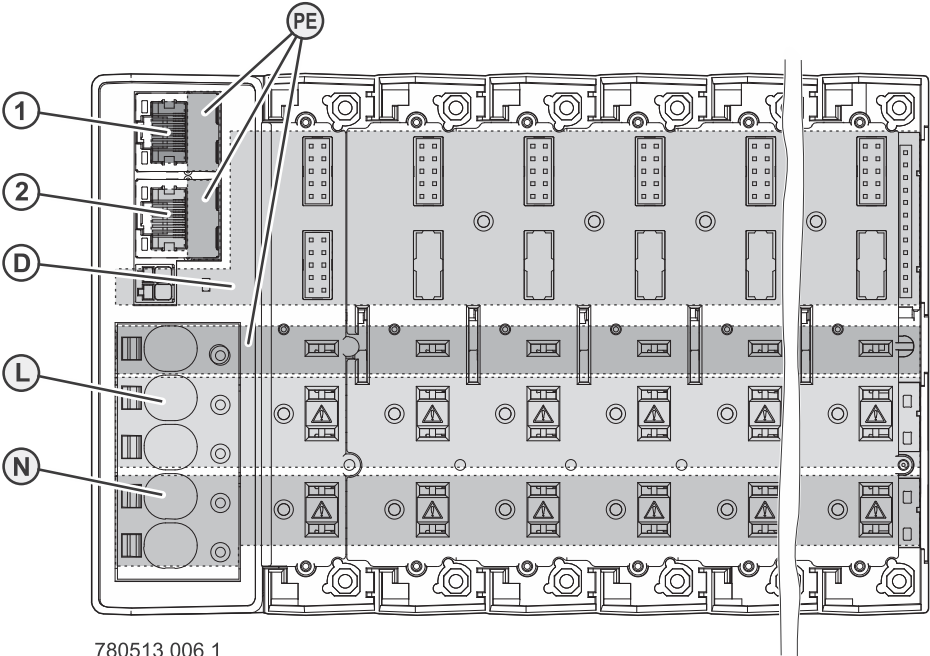


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8 - 9 mm = 0.31 ... 0.35 inch		

Potential groups



780513 006 1

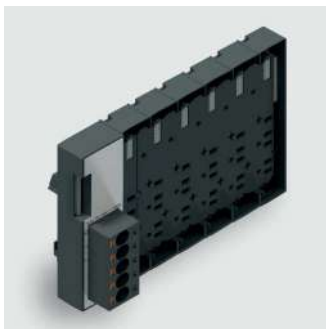
1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2	DE Verstärkte Isolierung/ EN Reinforced insulation/ FR Isolation renforcée
(PE): PE			DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales AC 3000V (>3mm; CTI 600): L+N ⇔ PE+D+1+2
(1): ETH1			
(2): ETH2			
(D): Data-Bus			
(L): L („+“)			
(N): N („-“)			
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3	DE Funktionsisolierung/ EN Functional insulation/ FR Isolation fonctionnelle
1nF:			DC 2000 V:
1 ⇔ PE			1 + 2 ⇔ PE + D
2 ⇔ PE			1 ⇔ 2
			AC 500 V:
			PE ⇔ D
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement		
3.1	DE Basisisolierung/ EN Basic insulation/ FR Isolation de base		
	DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance FR Distances d'isolement dans l'air et lignes de fuite minimales AC 1500V (>1,5mm; CTI 600): L ⇔ N		

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Extension module, active

Data bus, Power bus max. AC/DC 230 V, 100 A



Identification

Type	LCOS-LUNA-EW-006-LB-03-1-L
Part No.	780523.006.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with data bus and power supply
Description	LCOS-LUNA extension module active, with power supply max. AC/DC 230V, 6 slots, width: 170 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Slots

Slots	6-way
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.

Technical data sheet

Load monitoring · LCOS accessories

Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	170.0 mm × 110.0 mm × 47.0 mm
Weight/unit	0.268 kg
PU (units)	1

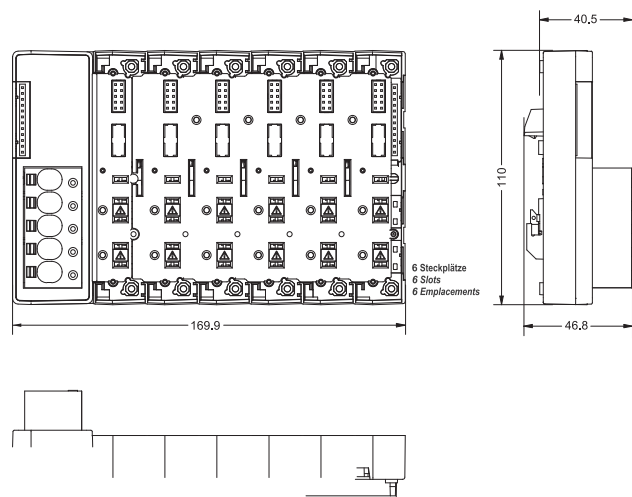
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

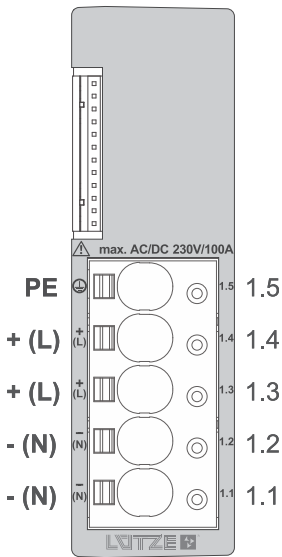
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cURus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

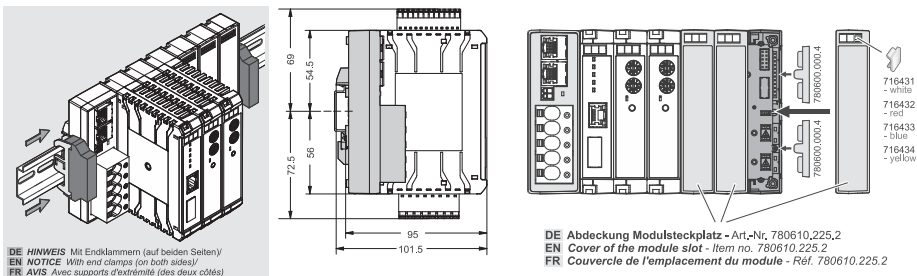


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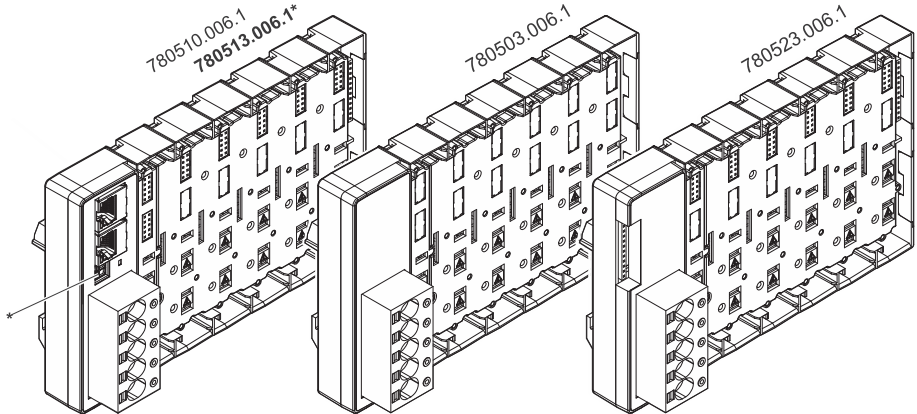
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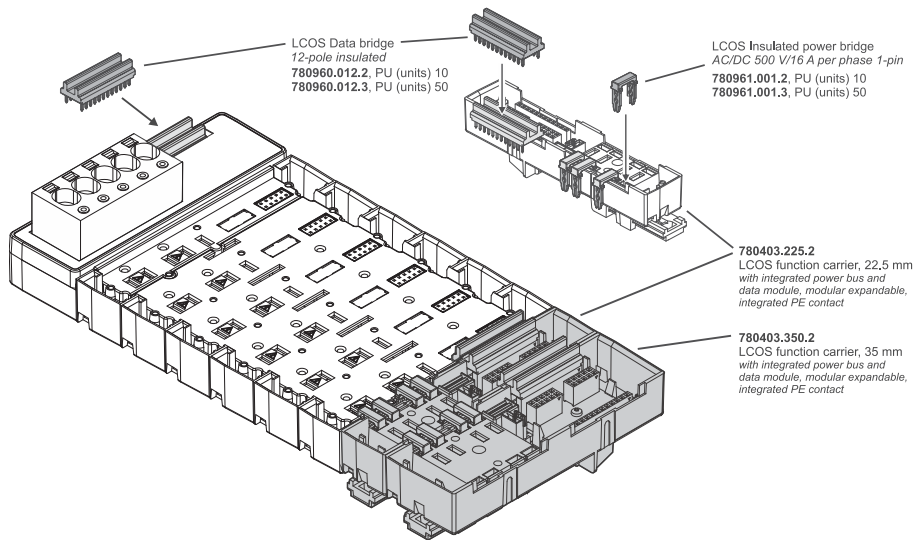
Use



Use



Use

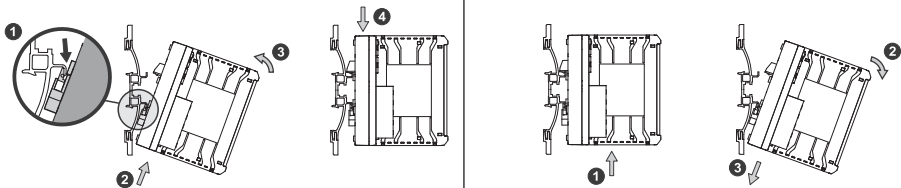


Mounting diagram

- DE Montage – Hutschiene**
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm
- DE Demontage – Hutschiene**
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

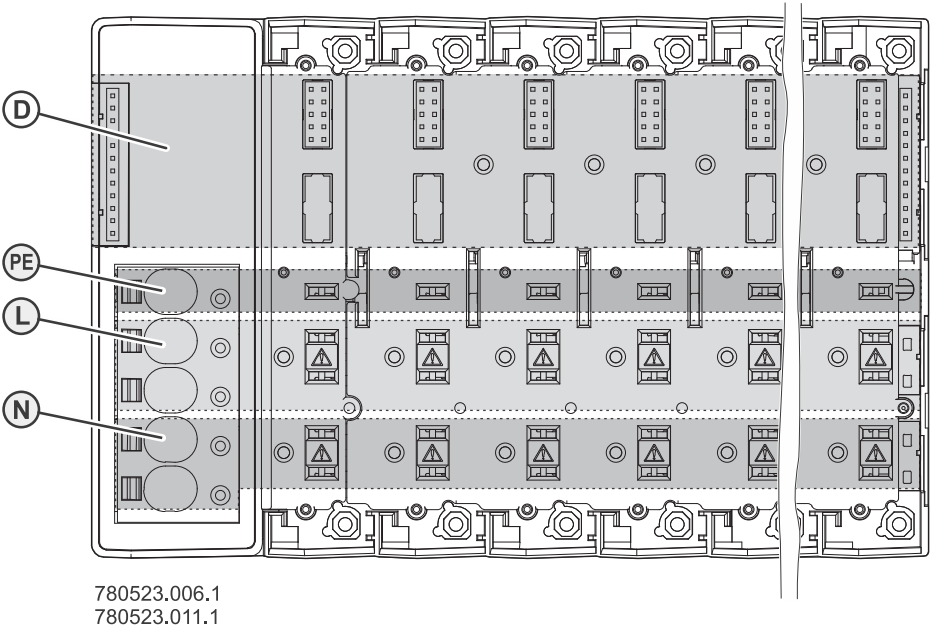


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8 - 9 mm = 0.31 ... 0.35 inch		

Potential groups



1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE): PE		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
(D): Data-Bus		FR Distances d'isolement dans l'air et lignes de fuite minimales
(L): L („+“)		AC 3000V (>3mm; CTI 600): L+N ↔ PE+D
(N): N („-“)		
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3 Funktionsisolierung/ Functional insulation/ Isolation fonctionnelle
-		AC 500 V : PE ↔ D
3.	DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement	
3.1 Basisisolierung/ Basic insulation/ Isolation de base		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
		FR Distances d'isolement dans l'air et lignes de fuite minimales
		AC 1500V (>1,5mm; CTI 600): L ↔ N

Technical data sheet

Load monitoring · LCOS accessories

LCOS-LUNA Extension module, active

Data bus, Power bus max. AC/DC 230 V, 100 A



Identification

Type	LCOS-LUNA-EW-011-LB-03-1-L
Part No.	780523.011.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with data bus and power supply
Description	LCOS-LUNA extension module active, with power supply max. AC/DC 230V, 11 slots, width: 282.5 mm, ready for connection

Electrical data Power Bus

Operating voltage	Max. AC/DC 230 V
Operating current	Max. AC/DC 100 A
Connection type	5× Push-In, min. 0,5 mm ² , max. 16 mm ²

Slots

Slots	11-way
-------	--------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.

Technical data sheet

Load monitoring · LCOS accessories

Installation position	Vertical Horizontal
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	282.5 mm × 110.0 mm × 47.0 mm
Weight/unit	0.416 kg
PU (units)	1

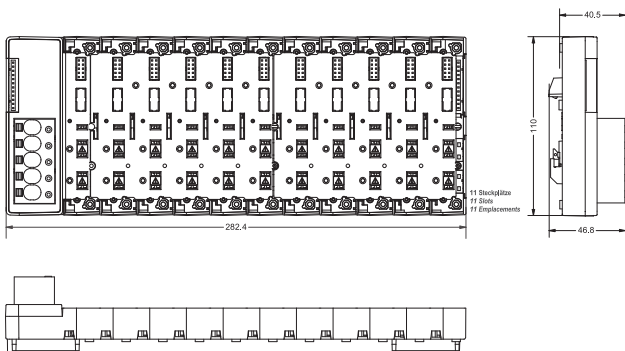
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

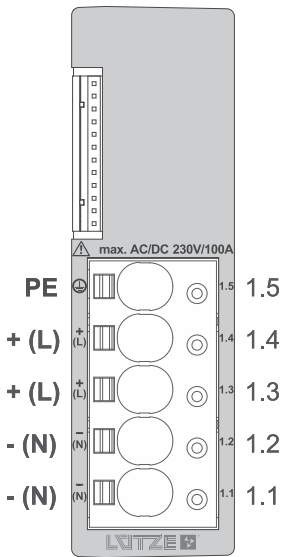
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cULus (E170585)
Standards	IEC/EN/UL 61000-6-4 IEC/EN/UL 61000-6-2 IEC/EN/UL 61010-1 IEC/EN/UL 61010-2-201 CFR 47 Part 15 Subpart B Class A DNV-CG-0339

Dimensions

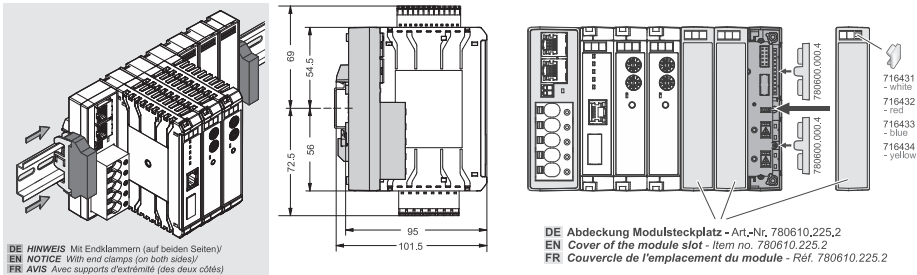


PIN assignment

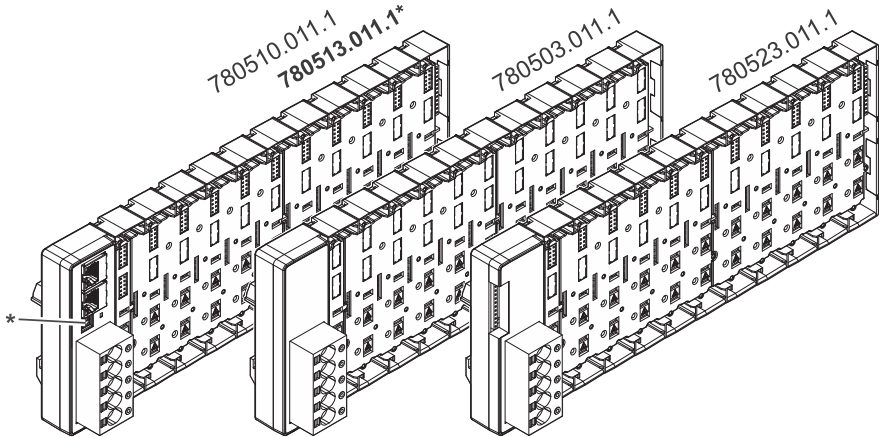
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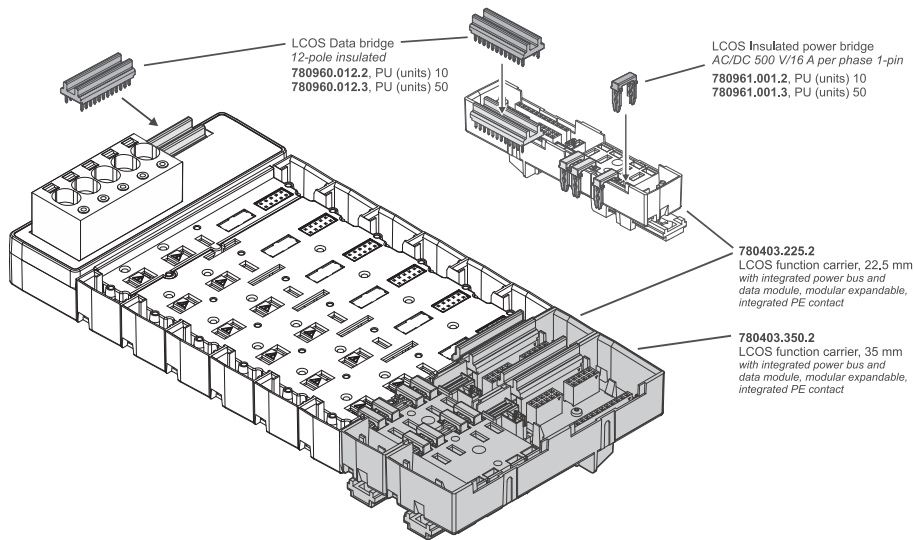
Use



Use



Use

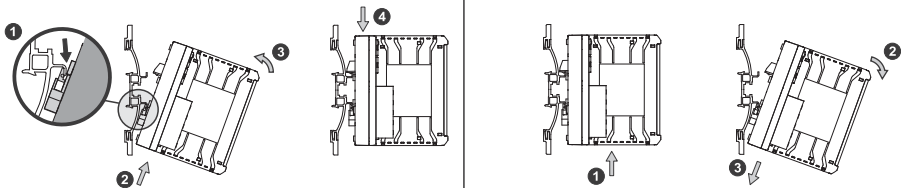


Mounting diagram

- DE Montage – Hutschiene**
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail
Default required mounting position: vertical, distance to surrounding devices (above and below the housing): 30mm

FR Montage – Rail profilé chapeau
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm
- DE Demontage – Hutschiene**
EN Dismounting – DIN Rail
FR Démontage – Rail profilé chapeau

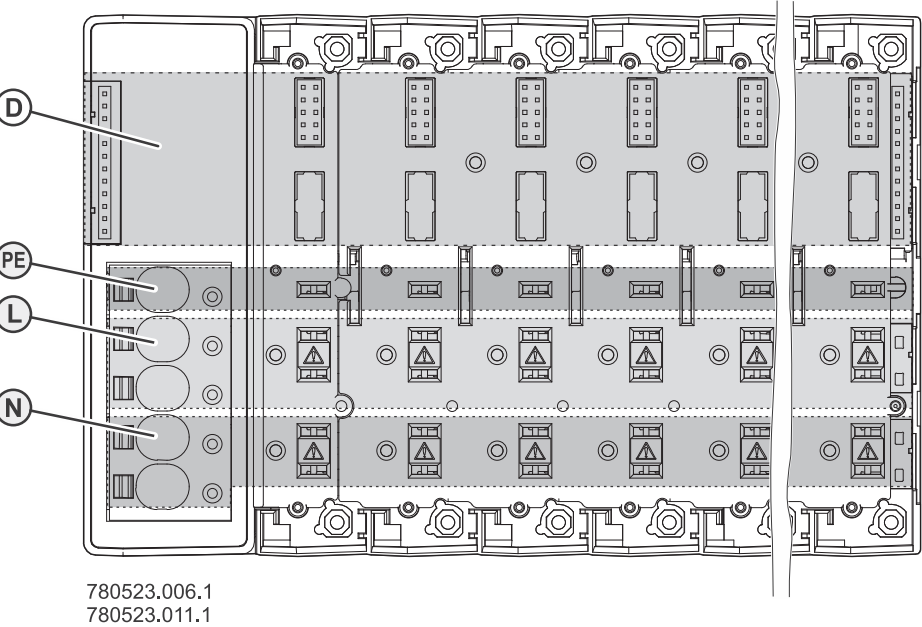


Mounting diagram

DE Verdrahtung EN Wiring FR Câblage

	Abisolierlänge Stripping Length Longueur de dénudage	Querschnitt Conductor Size Section
X1: 5-polig/5-pole (RM 10), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.5 ... 16 mm ² AWG 18 – 4
mehrdrähtig/ stranded/ multifilaire H07V-R		6 ... 16 mm ² AWG 9 – 4
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.5 ... 16 mm ² AWG 18 – 4
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.5 ... 16 mm ² AWG 18 – 4
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.5 ... 16 mm ² AWG 18 – 4
18 mm = 0.71 inch		
X2: 2-polig/2-pole (RM 3,5), Push-in		
eindrähtig/ solid/ monofilaire H05(07) V-U		0.14 ... 1.5 mm ² AWG 28 – 16
mehrdrähtig/ stranded/ multifilaire H07V-R		0.14 ... 1.5 mm ² AWG 26 – 14
feindrähtig/ fine stranded/ à fils de faible diamètre H05(07) V-K		0.14 ... 1.5 mm ² AWG 26 – 14
mit Aderendhülse (AEH) nach DIN 46 228/1 / with ferrule according to DIN 46 228/1 / avec embout selon DIN 46 228/1		0.25 ... 1.5 mm ² AWG 25 – 14
mit AEH mit Kragen nach DIN 46 228/4 / with ferrule with collar acc. to DIN 46 228/4 / avec embout avec collerette selon DIN 46 228/4		0.25 ... 0.75 mm ² AWG 25 – 19
8 - 9 mm = 0.31 ... 0.35 inch		

Potential groups



1.	DE Potentialgruppen EN Potential groups FR Groupes de potentiel	3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée
(PE): PE		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
(D): Data-Bus		FR Distances d'isolement dans l'air et lignes de fuite minimales
(L): L („+“)		AC 3000V (>3mm; CTI 600): L+N ⇔ PE+D
(N): N („-“)		
2.	DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif	3.3 Funktionsisolierung/ Functional insulation/ Isolation fonctionnelle
-		AC 500 V : PE ⇔ D
3.	DE Trennschaltung/ EN Isolating voltage/ FR Tension d'isolement	
3.1 Basisisolierung/ Basic insulation/ Isolation de base		DE Minimale Luft- und Kriechstrecken EN Minimal clearance and creepage Distance
		FR Distances d'isolement dans l'air et lignes de fuite minimales
		AC 1500V (>1,5mm; CTI 600): L ⇔ N

Cover plate



Identification

Type	LCOS-ZB-AD-00-1
Part No.	780600.000.4

Product version

Datasheet version	00
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Description

System Components	Accessories
Description	Cover plate, on the side

General

PU (units)	100
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Replace front plate



Identification

Type	LCOS-ZB-FPL-225-00-1
Part No.	780600.225.3

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Replace front plate, closed
Application	Function housing 22.5 mm

General

Mounting	Can be clipped onto 22.5 mm or 35 mm LCOS functional housing.
PU (units)	50

Replace front plate



Identification

Type	LCOS-ZB-FPL-225-00-1
Part No.	780600.225.4

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Replace front plate, closed
Application	Function housing 22.5 mm

General

Mounting	Can be clipped onto 22.5 mm or 35 mm LCOS functional housing.
PU (units)	100

Technical data sheet

Load monitoring · LCOS accessories

Replace front plate



Identification

Type	LCOS-ZB-FPL-350-00-1
Part No.	780600.350.3

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Replace front plate, closed
Application	Function housing 35 mm

General

Mounting	Can be clipped onto 22.5 mm or 35 mm LCOS functional housing.
PU (units)	50

Technical data sheet

Load monitoring · LCOS accessories

Replace front plate, closed



Identification

Type	LCOS-ZB-FPL-350-00-1
Part No.	780600.350.4

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Replace front plate, closed
Application	Function housing 35 mm

General

Mounting	Can be clipped onto 22.5 mm or 35 mm LCOS functional housing.
PU (units)	100

LCOS cover of the module slot



Identification

Type	LCOS-ZB-AS-225-00-1-L
Part No.	780610.225.2

Product version

Datasheet version	01
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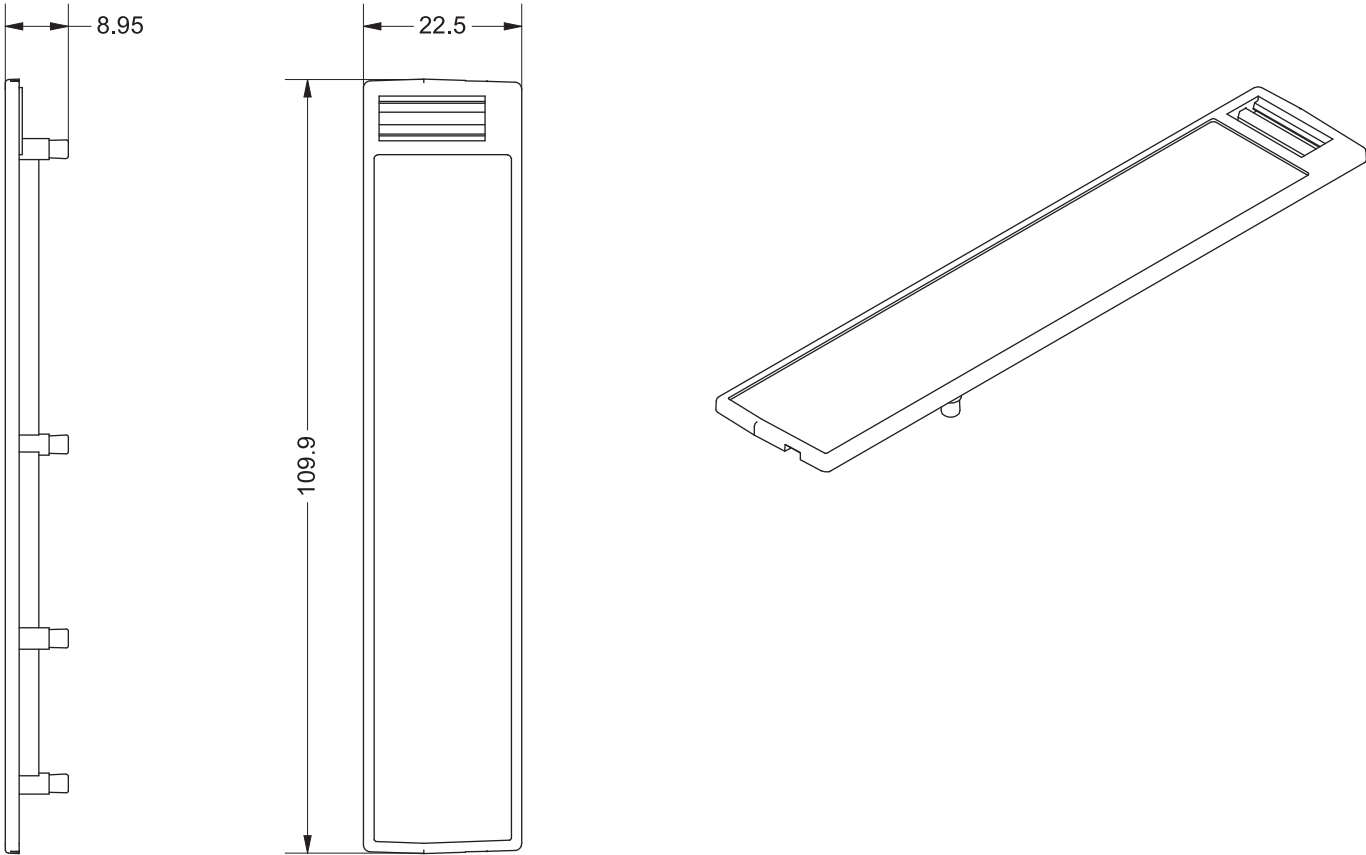
Description

System Components	Accessories
Description	LCOS cover of the module slot (LCOS-LUNA)
Application	Function housing 22.5 mm

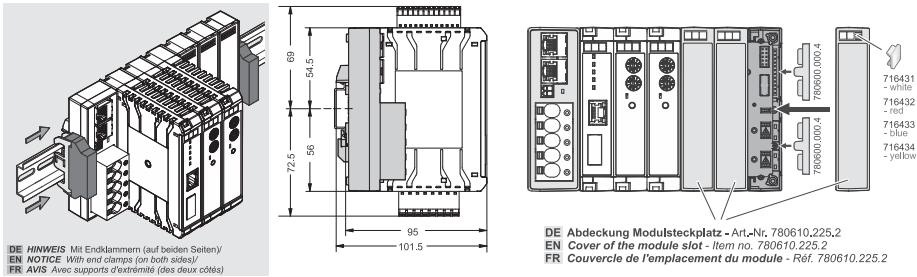
General

Mounting	On LCOS function carrier Latches into position
Dimensions (w × h × d)	22.5 mm × 109.9 mm × 8.9 mm
Weight/unit	0.04 kg
PU (units)	10

Dimensions



Use



Technical data sheet

LCOS Accessories

Function carrier with feed DC 24 V, integrated PE contact
Powerbus DC 24 V, 2 × 16 A



Identification

Type	LCOS-FTE-PE-575-NC-00-1
Part No.	780700.575.1

Product version

Datasheet version	04
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Description

System Components	Function carrier with supply
Description	Function carrier 57.5 mm, with supply DC 24 V, no FBS, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. DC 30 V
Operating current	max. DC 32 A
Voltage drop	Powerbus at $I_{\max}$ <80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Strip length	12 mm
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)

Technical data sheet

LCOS Accessories

Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 45.7 mm
Weight/unit	0.2 kg
PU (units)	1

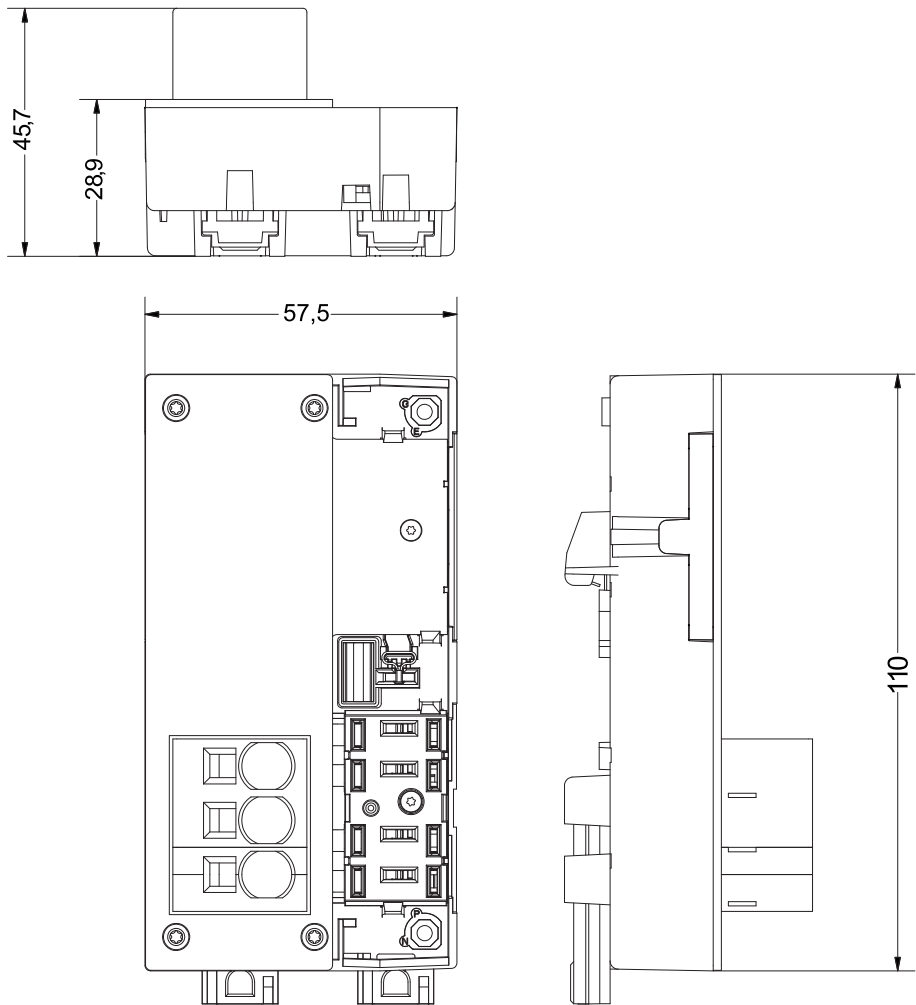
General ambient conditions

Operation temperature range	-25 °C ... +70 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	5 g acc. EN 60068-2-27

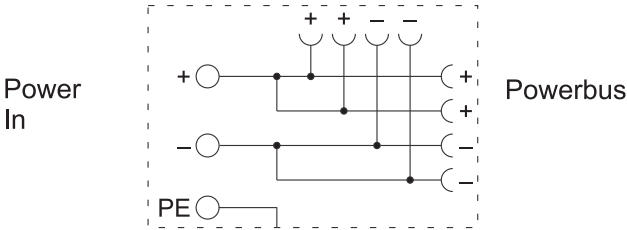
Certifications/Standards

Conformity	CE UKCA
Certifications	DNV GL
Standards	EN 60934 EN 60664-1 EN 60947-1 EN 50178 EN 50124-1 EN 61140

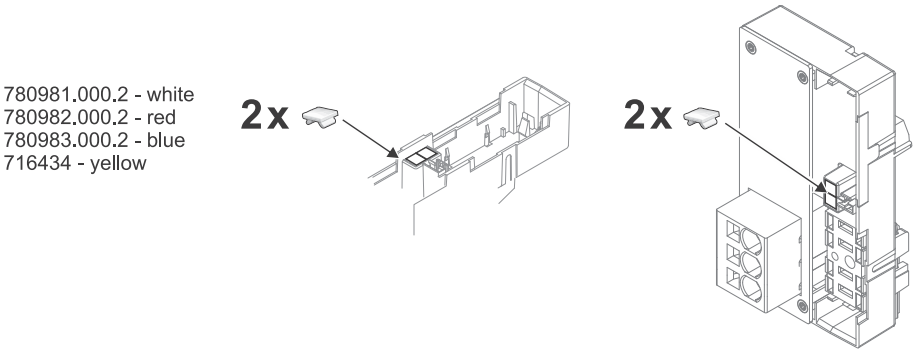
Dimensions



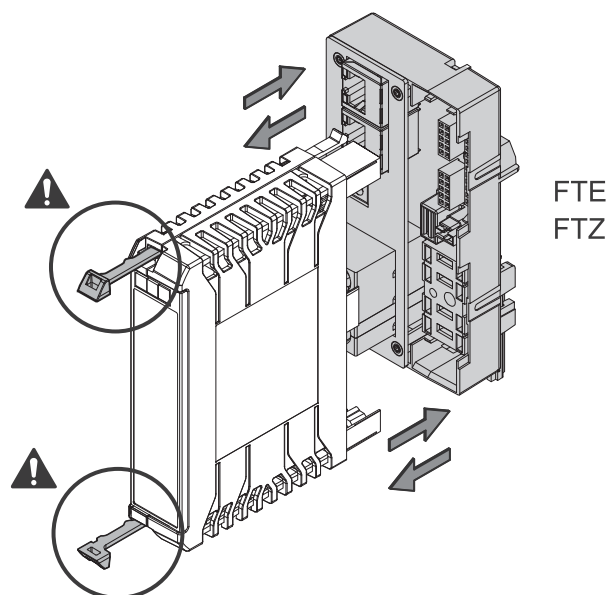
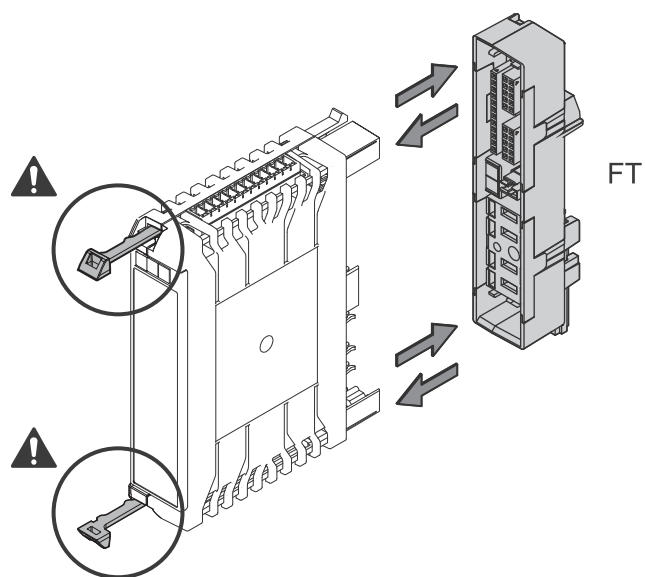
PIN assignment



Use



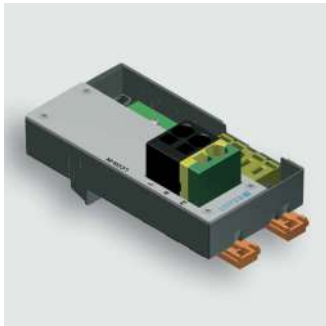
Use



Technical data sheet

Load monitoring · LCOS accessories

Function carrier with feed AC 230 V, integrated PE contact
Powerbus AC 230 V, 2 × 16 A



Identification

Type	LCOS-FTE-PE-575-NC-01-1
Part No.	780701.575.1

Product version

Hardware revision	1.0
Datasheet version	02

Description

System Components	Function carrier with supply
Description	Function carrier 57.5 mm, with supply AC 230 V, no FBS, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 230 V
Operating current	max. AC 32 A
Voltage drop	Powerbus at $I_{\max}$ <80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
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Technical data sheet

Load monitoring · LCOS accessories

Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Marking	2 × Labelling plates 5×5 mm
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 45.7 mm
Weight/unit	0.2 kg
PU (units)	1

General ambient conditions

Operation temperature range	-25 °C ... +70 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	5 g acc. EN 60068-2-27

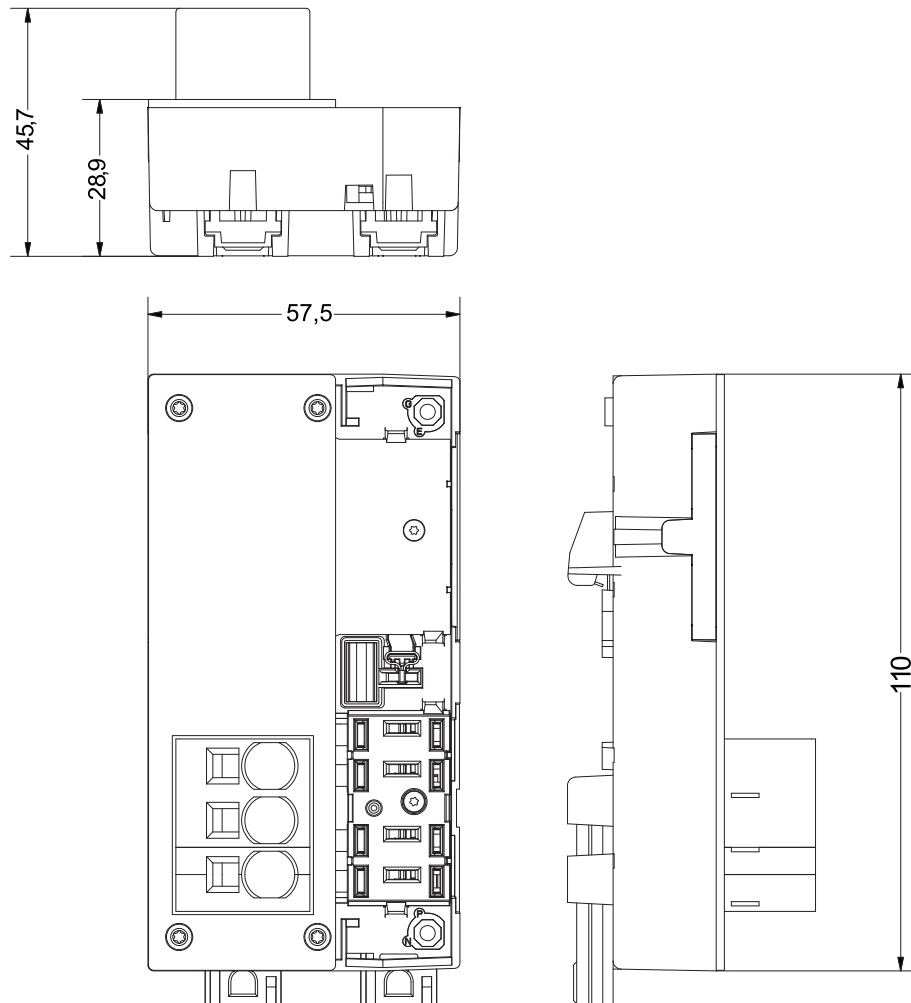
Certifications/Standards

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

Technical data sheet

Load monitoring · LCOS accessories

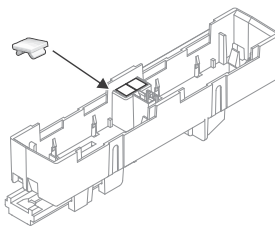
Dimensions



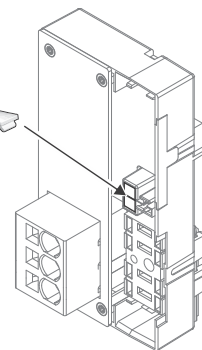
Use

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780982.000.2 - red
780983.000.2 - blue
716434 - yellow

2x



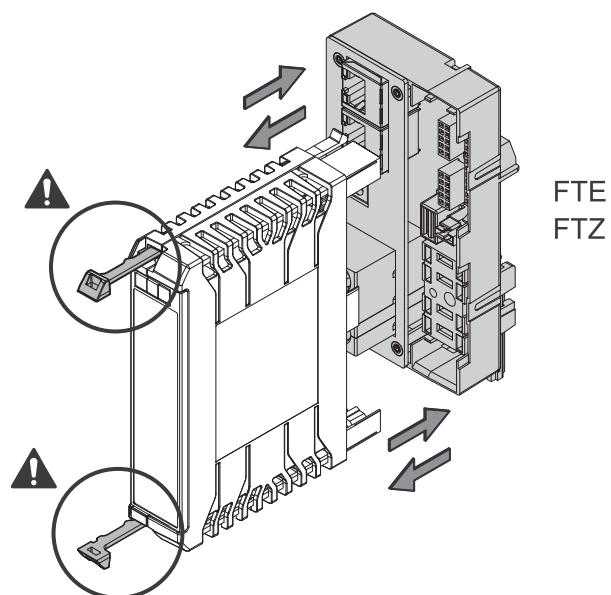
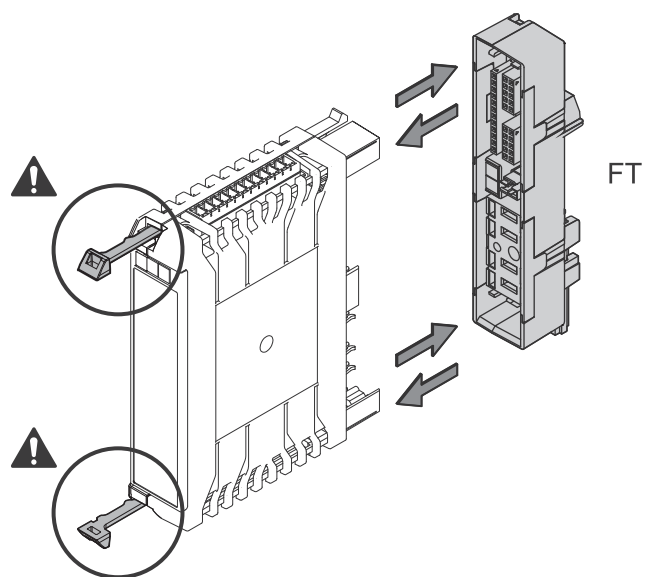
2x



Technical data sheet

Load monitoring · LCOS accessories

Use



Technical data sheet

LCOS Accessories

**LCOS function carrier AC/DC universal (for Profinet, Ethercat and Ethernet-IP)
with power supply DC 48 V / 32 A, integrated PE contact,
Data bus, Powerbus, control voltage connection DC 24 V**



Identification

Type	LCOS-FTE-PE-575-UN-03-1-L
Part No.	780713.575.1

Product version

Datasheet version	03
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Description

Description	LCOS function carrier 57,5 mm, with power supply DC 24 V / AC 230 V, 2xRJ45, with PE direct contact, ready for connection
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Electrical data Power Bus

Operating voltage	max. DC 48 V
Operating current	max. DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection
Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)

Technical data sheet

LCOS Accessories

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

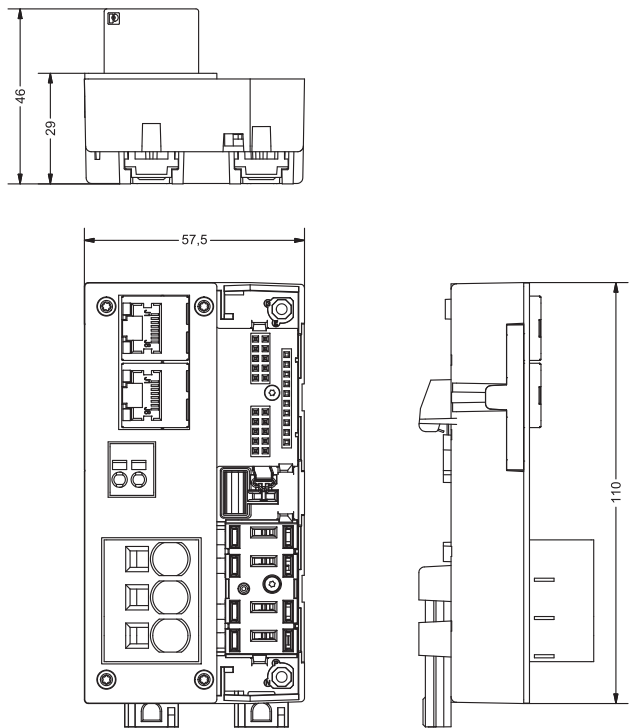
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

Conformity	CE UKCA
Certifications	DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 DNV-CG-0339

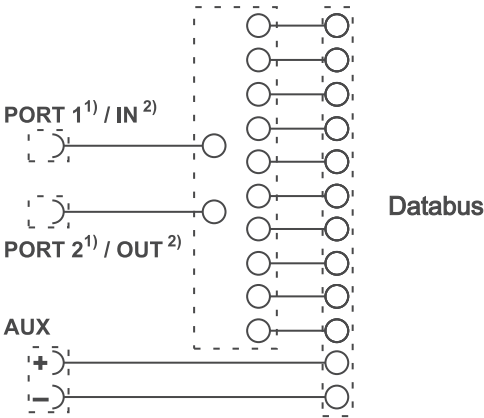
Dimensions



PIN assignment

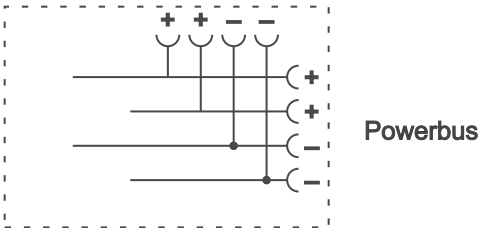
DC ==

Data module



¹⁾ Ethernet IP/ Profinet ²⁾ EtherCAT

Power module



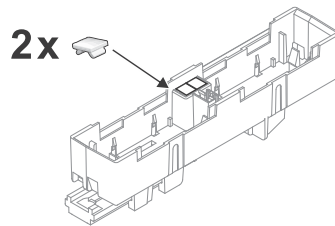
Technical data sheet

LCOS Accessories

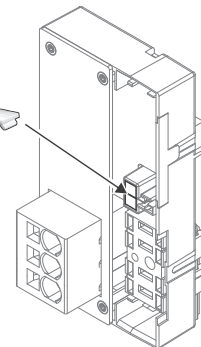
Use

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780982.000.2 - red
780983.000.2 - blue
716434 - yellow

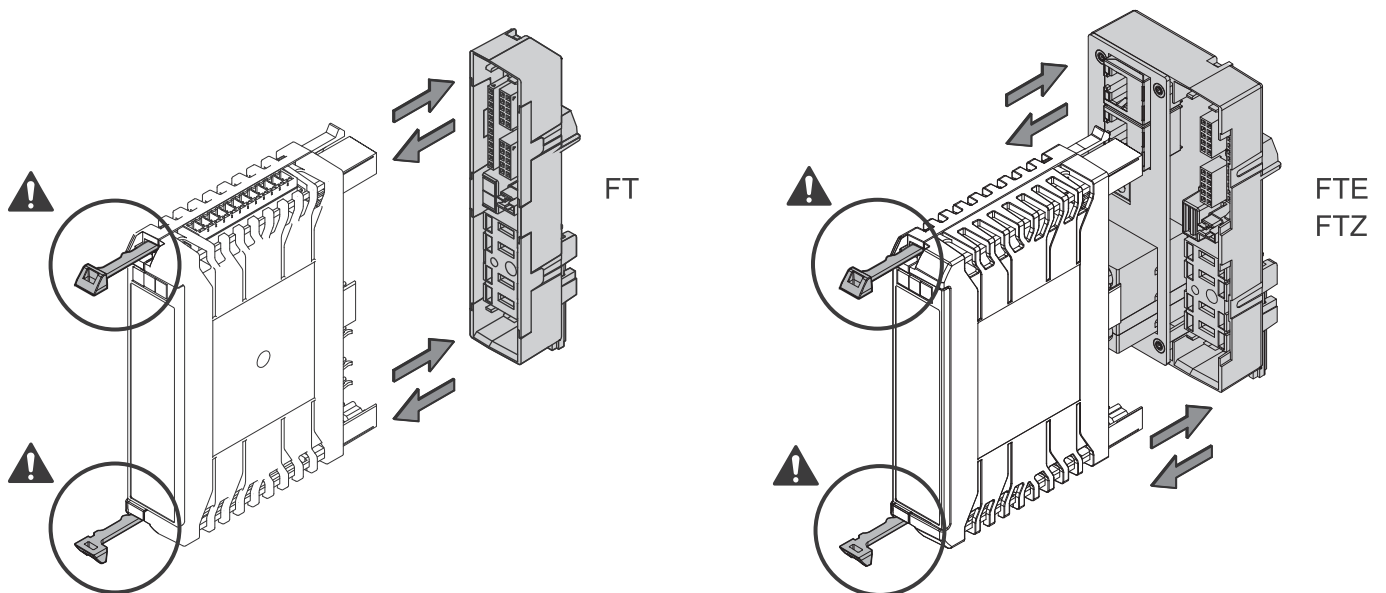
2x



2x

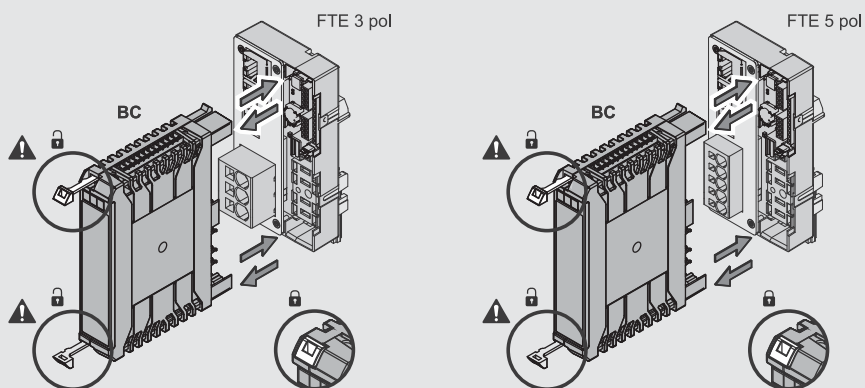


Use



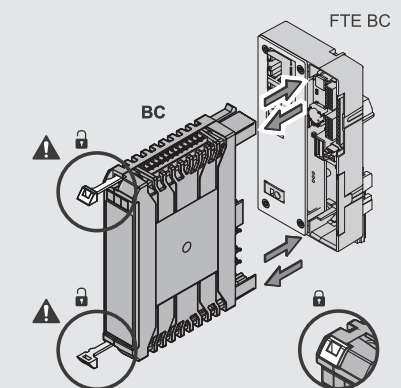
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

LCOS Accessories

LCOS function carrier

Supply module for bus coupler Profinet, EtherCAT and Ethernet IP

Control voltage connection DC 24 V



Identification

Type	LCOS-FTE-PE-575-UN-04-1-L
Part No.	780714.575.1

Product version

Datasheet version	02
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Description

Description	LCOS function carrier, supply module for bus coupler Profinet, EtherCAT and Ethernet IP, control voltage connection DC 24 V
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Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	Max. DC 2 A
Protection device	Polarity reversal protection
Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
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Technical data sheet

LCOS Accessories

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	Pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 32.0 mm
Weight/unit	0.25 kg
PU (units)	1

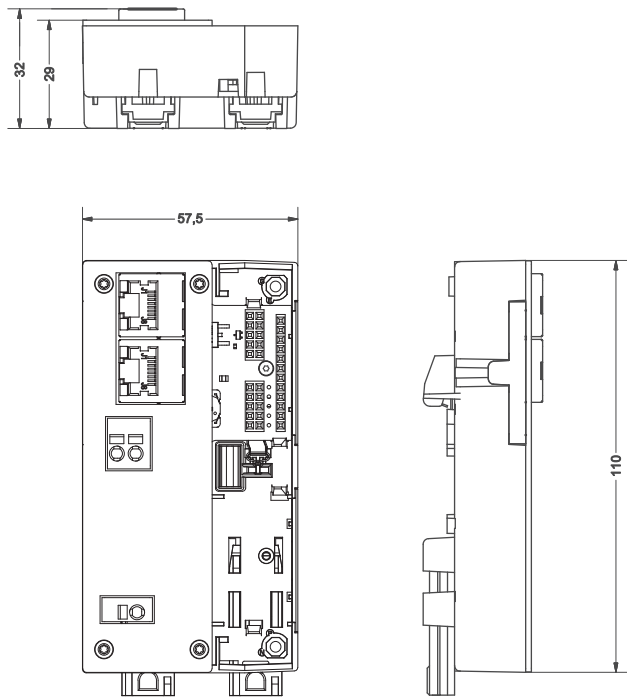
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

Certifications/Standards

Conformity	CE UKCA
Certifications	DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 DNV-CG-0339

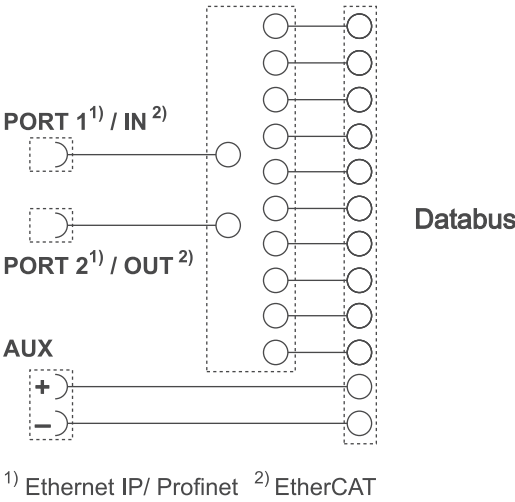
Dimensions



PIN assignment

DC ==

Data module



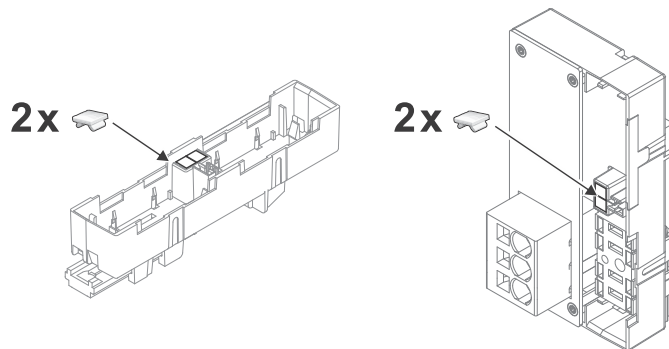
Power module

Technical data sheet

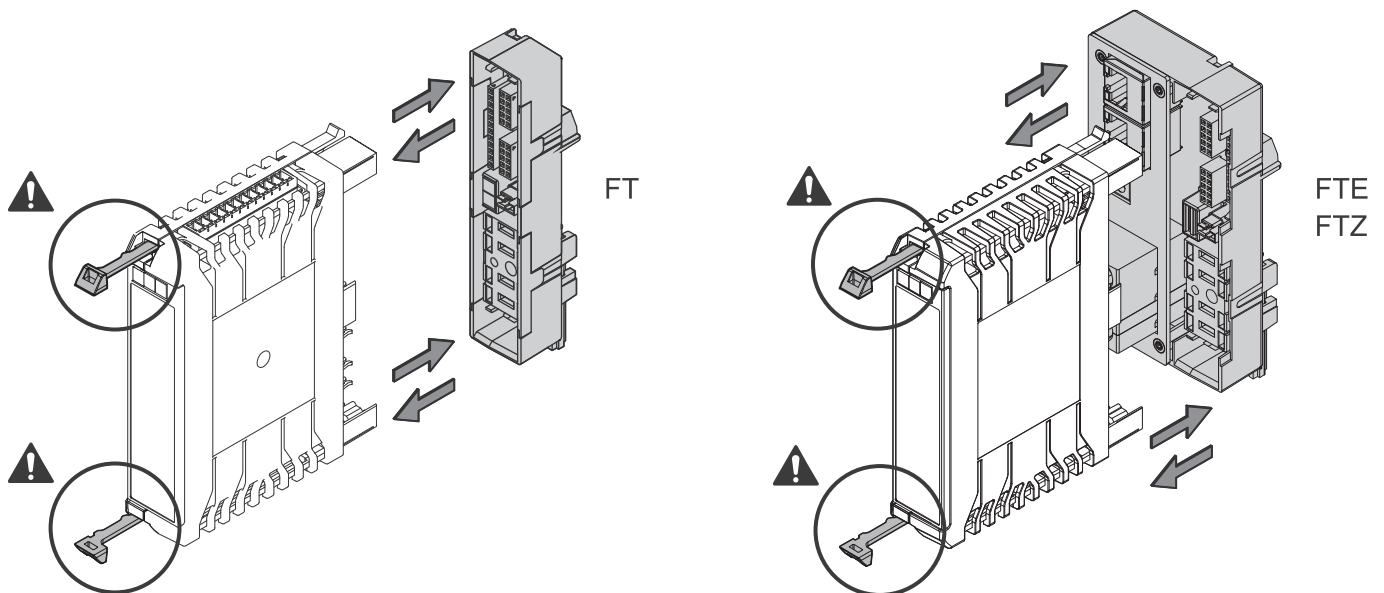
LCOS Accessories

Use

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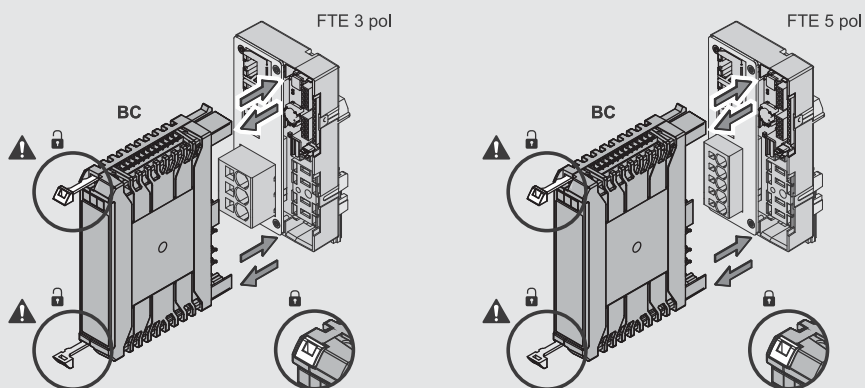


Use



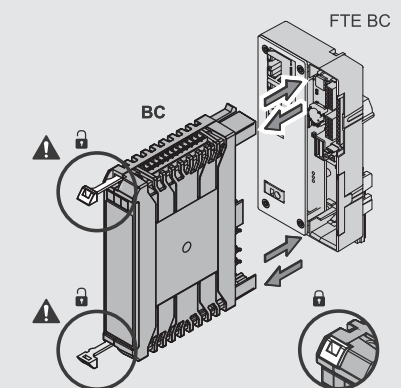
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

PROFINET Function carrier with feed AC 230 V, integrated PE contact

Data bus 12-pole, Powerbus AC 230 V, 2 × 32 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-PN-01-1-L
Part No.	780731.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 230 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 230 V
Operating current	max. AC/DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
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Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
-------	-----------------------------------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

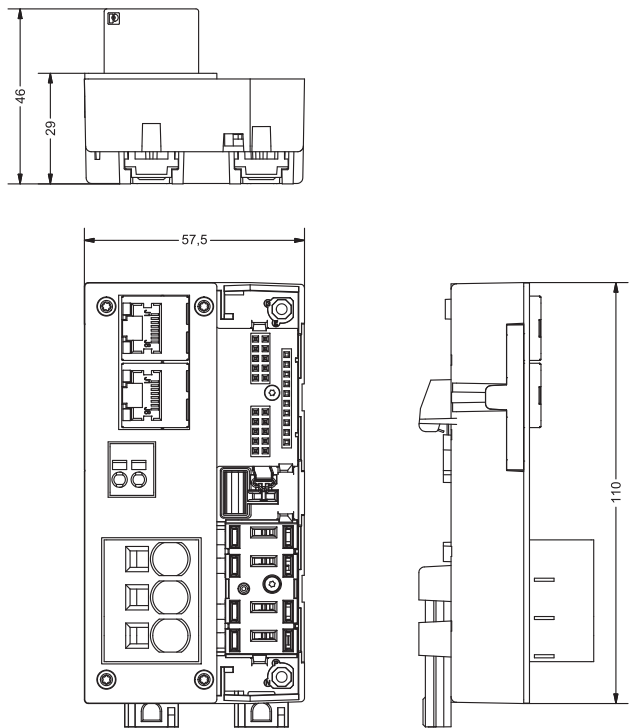
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

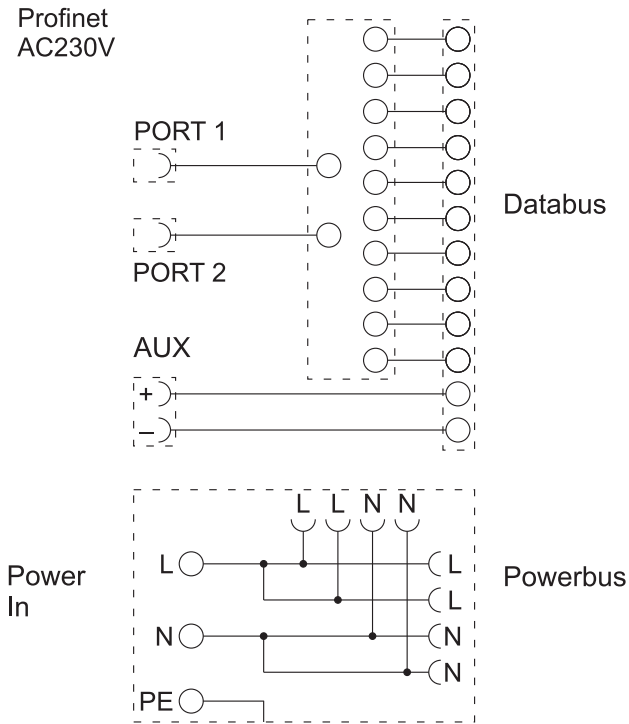
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment

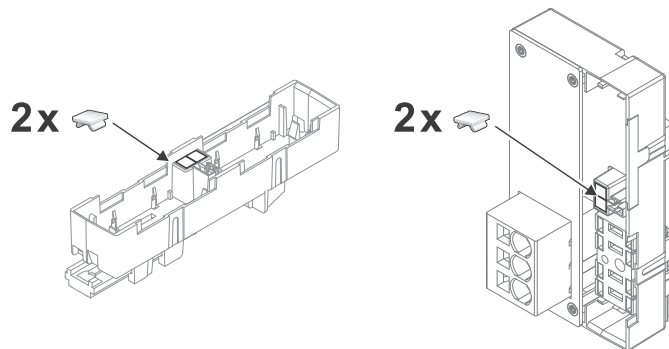


Technical data sheet

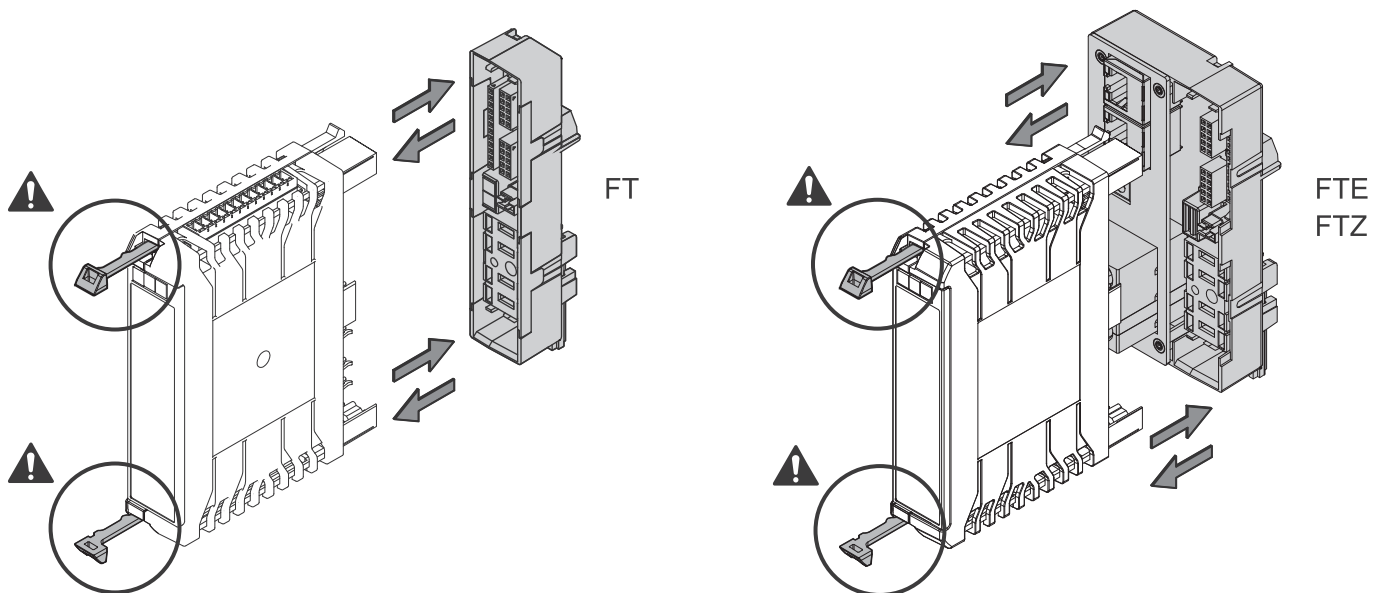
Modular housing system · LCOS Modular housing system

Use

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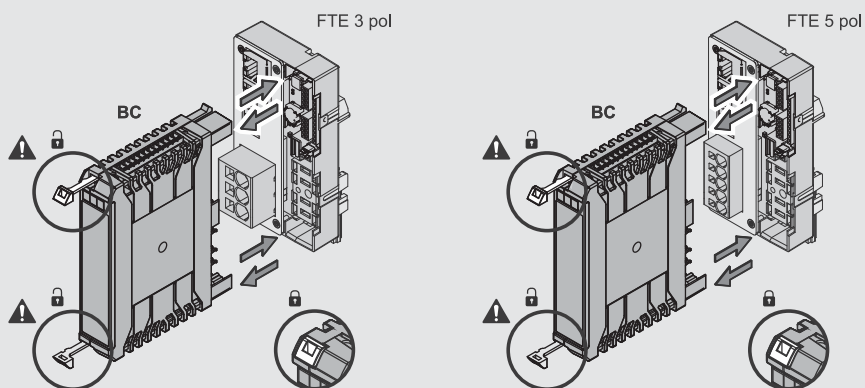


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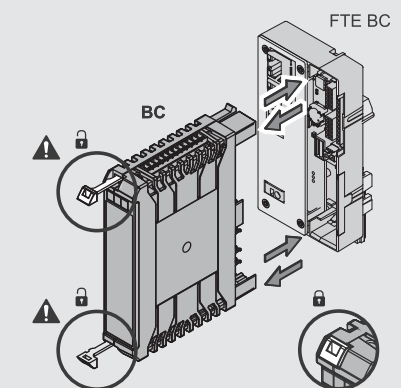
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

PROFINET Function carrier with feed AC 500 V, integrated PE contact

Data bus 12-pole, Powerbus AC 500 V, 4 × 16 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-PN-02-1-L
Part No.	780732.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 500 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 500 V
Operating current	max. AC/DC 16 A
Voltage drop	<80 mV
Connection type	Federzuganschluss 5×6 mm ² , 5×4 mm ² mit AE
Connection type	Federzuganschluss 5×AWG 10, 5×AWG 12 mit AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
-----------------------	--

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 39.0 mm
Weight/unit	0.25 kg
PU (units)	1

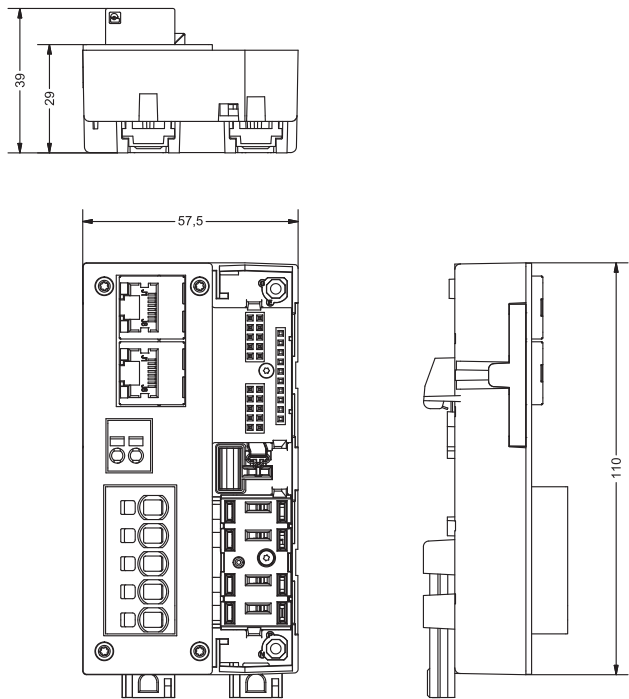
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

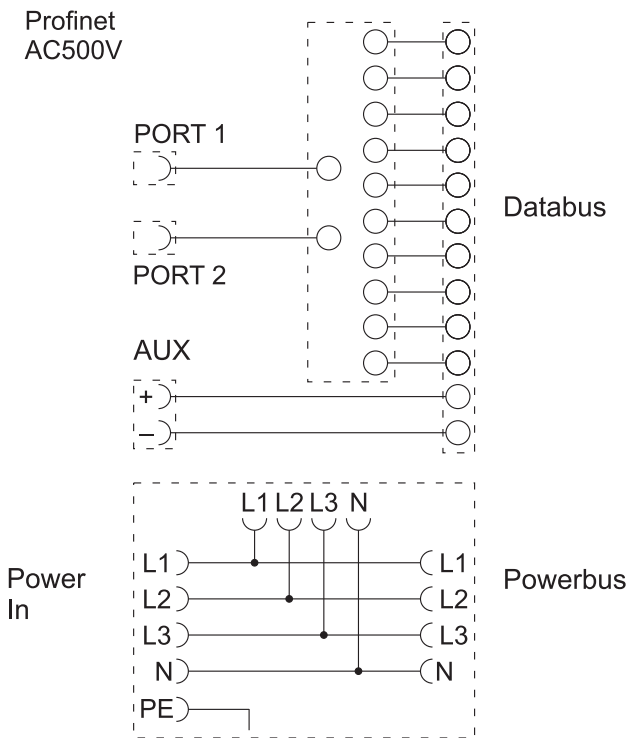
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment



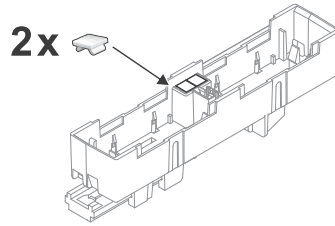
Technical data sheet

Modular housing system · LCOS Modular housing system

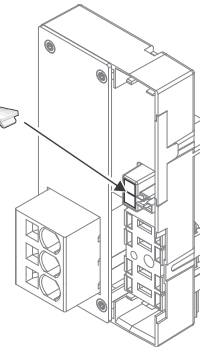
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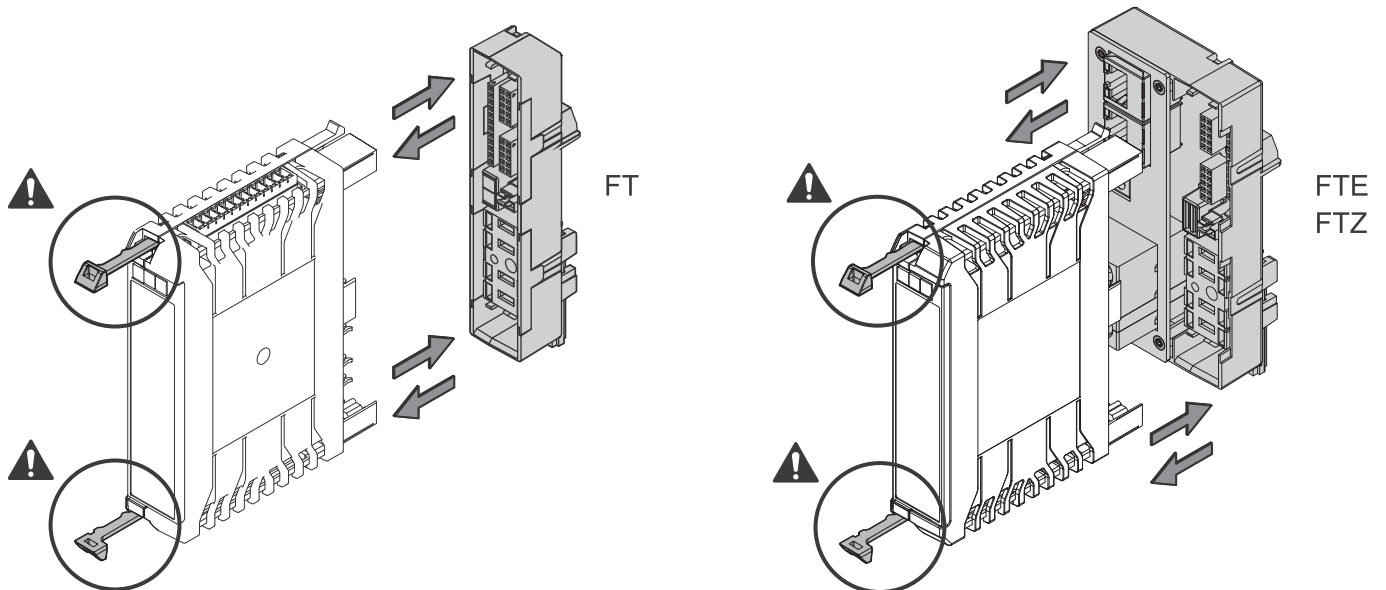
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2x

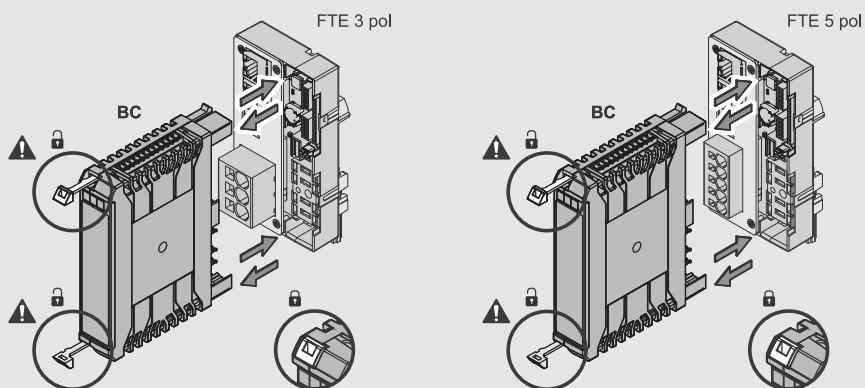


Use



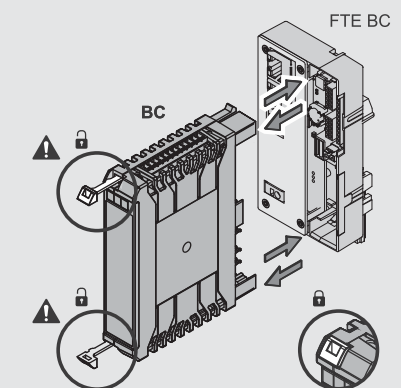
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

EtherCAT Function carrier with feed AC 230 V, integrated PE contact

Data bus 12-pole, Powerbus AC 230 V, 2 × 32 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-EC-01-1-L
Part No.	780741.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 230 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 230 V
Operating current	max. AC/DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
-----------------------	--

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

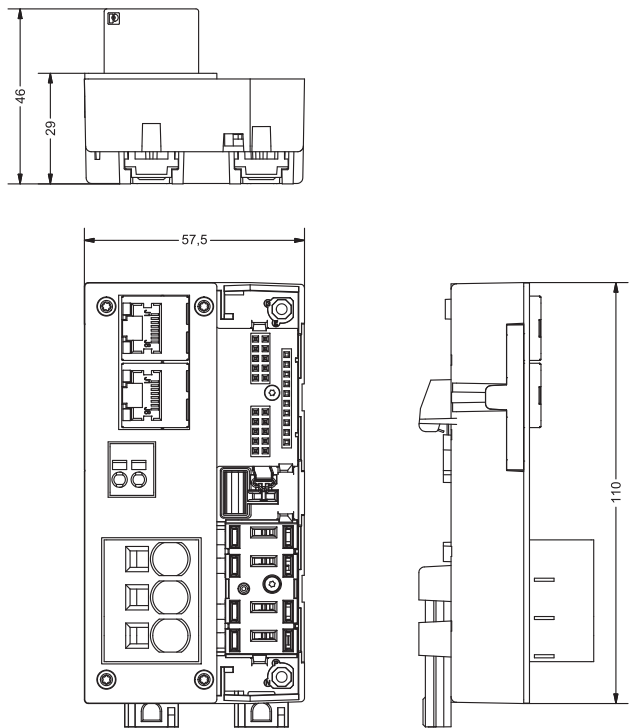
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

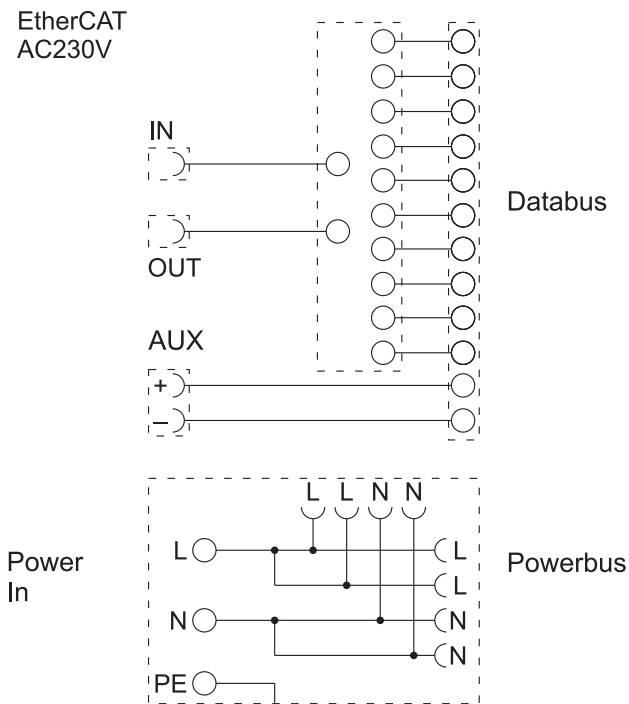
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment



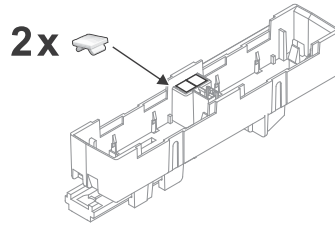
Technical data sheet

Modular housing system · LCOS Modular housing system

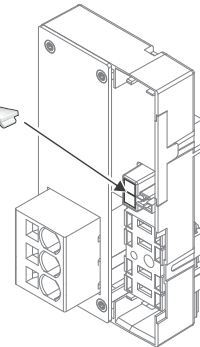
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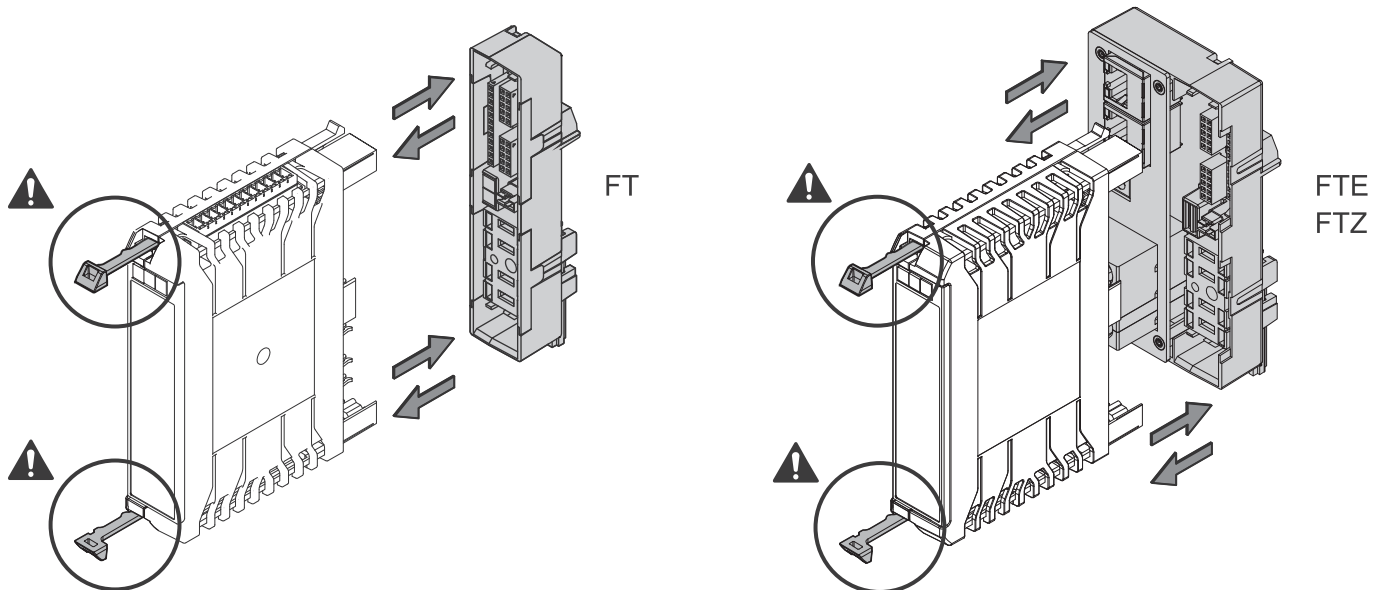
2x



2x

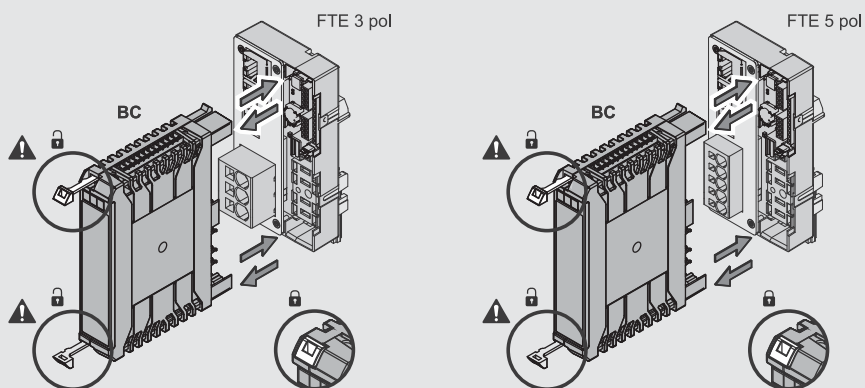


Use



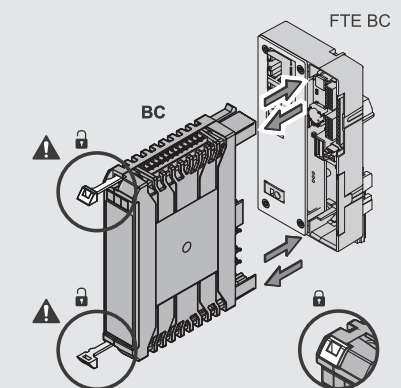
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

EtherCAT Function carrier with feed AC 500 V, integrated PE contact

Data bus 12-pole, Powerbus AC 500 V, 4 × 16 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-EC-02-1-L
Part No.	780742.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 500 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 500 V
Operating current	max. AC/DC 16 A
Voltage drop	<80 mV
Connection type	Federzuganschluss 5×6 mm ² , 5×4 mm ² mit AE
Connection type	Federzuganschluss 5×AWG 10, 5×AWG 12 mit AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
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Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
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General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 39.0 mm
Weight/unit	0.25 kg
PU (units)	1

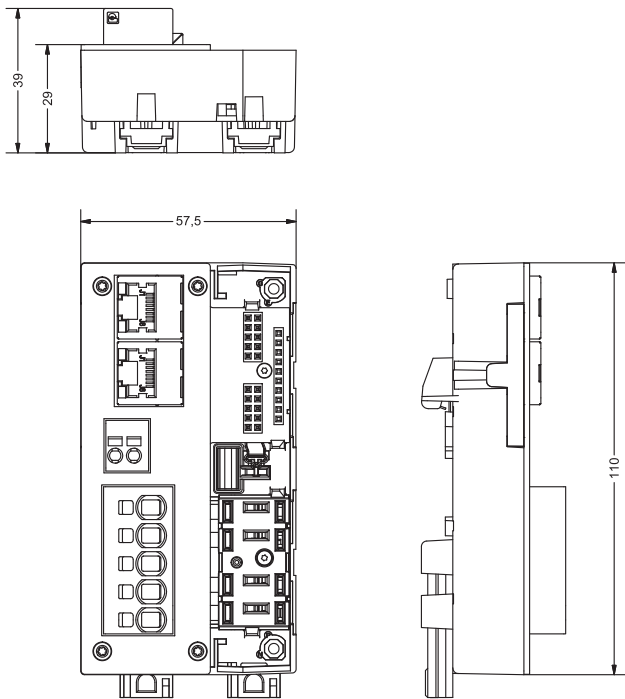
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

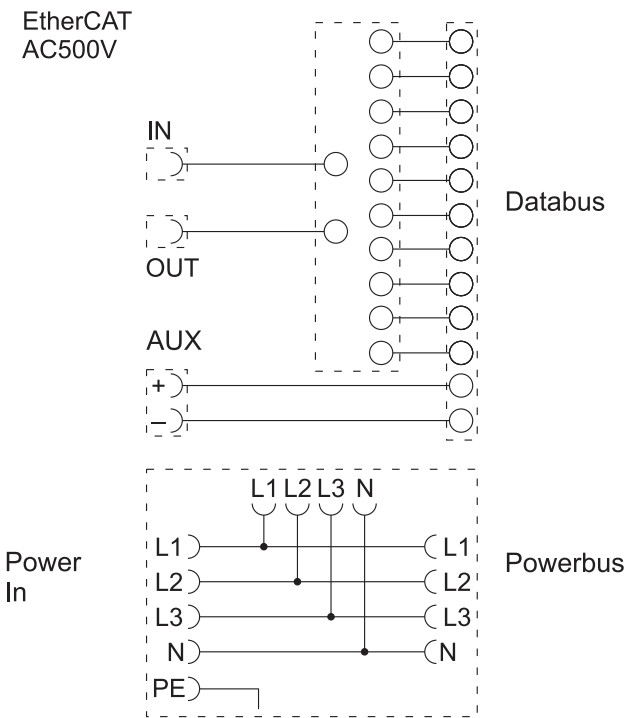
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment

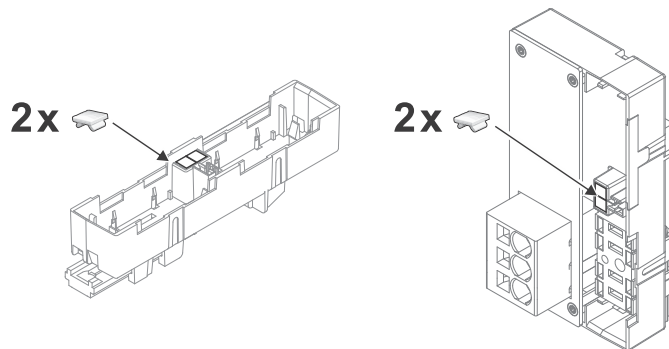


Technical data sheet

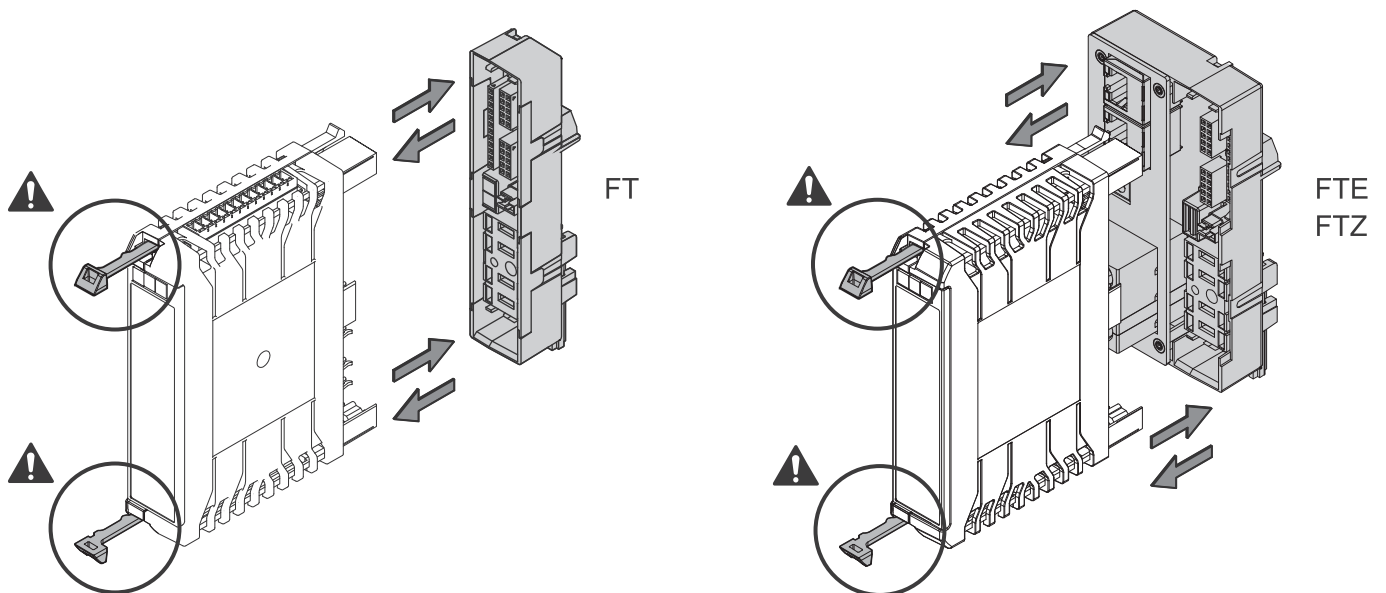
Modular housing system · LCOS Modular housing system

Use

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716434 - yellow

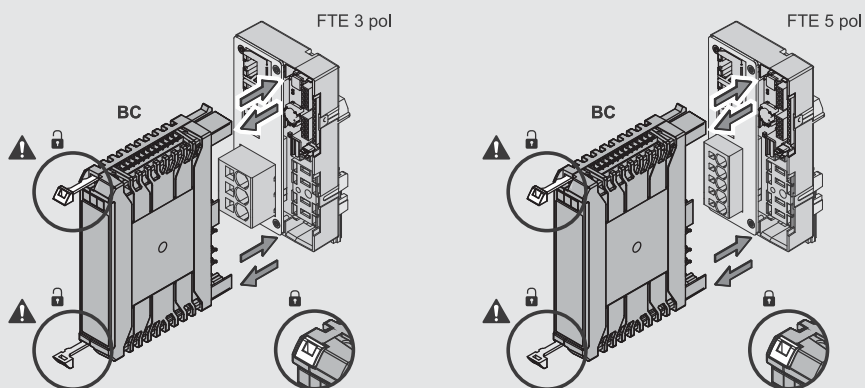


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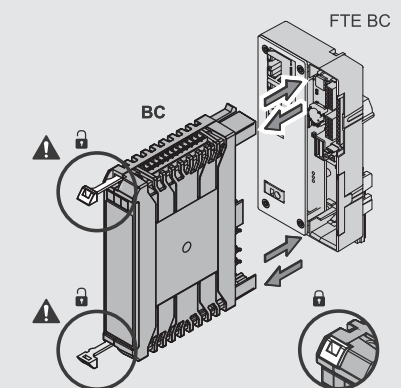
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

EtherNET-IP Function carrier with feed AC 230 V, integrated PE contact

Data bus 12-pole, Powerbus AC 230 V, 2 × 32 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-ETIP-01-1-L
Part No.	780771.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 230 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 230 V
Operating current	max. AC/DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
-----------------------	--

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
-------	-----------------------------------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

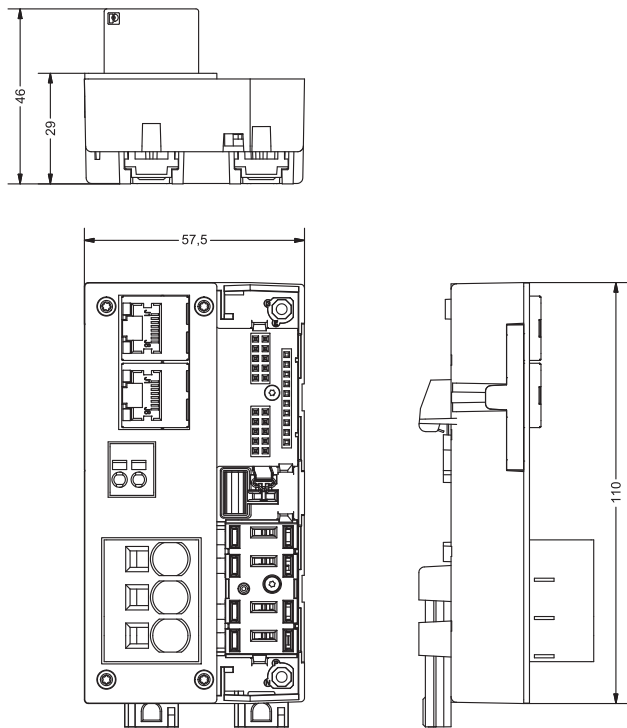
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

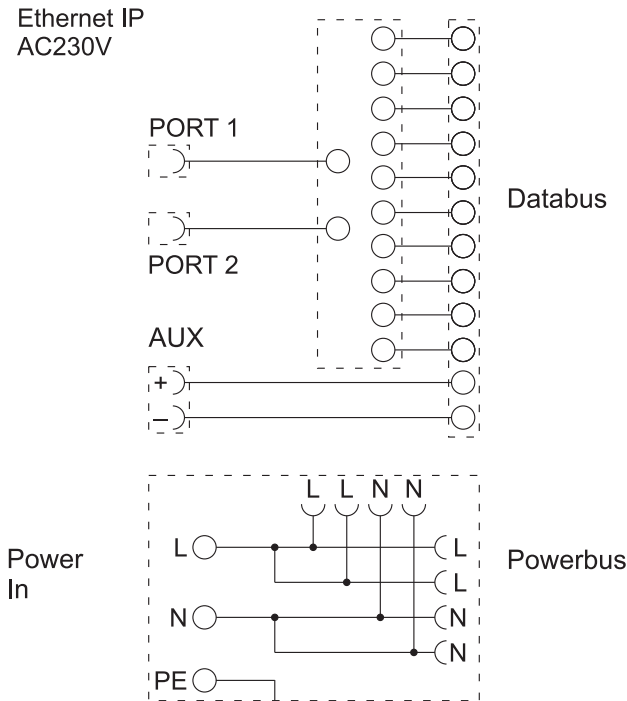
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment



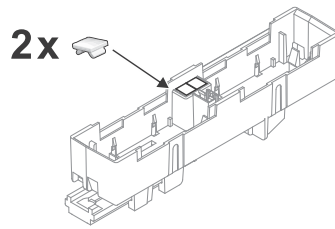
Technical data sheet

Modular housing system · LCOS Modular housing system

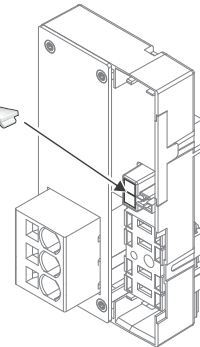
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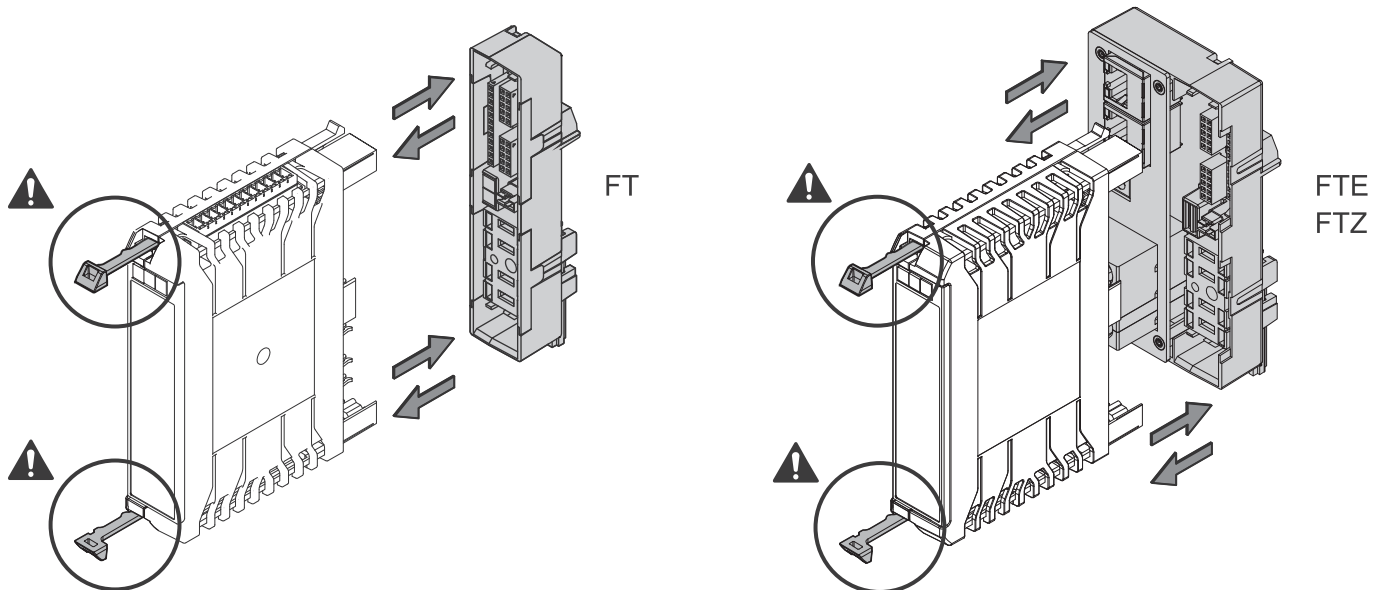
2x



2x

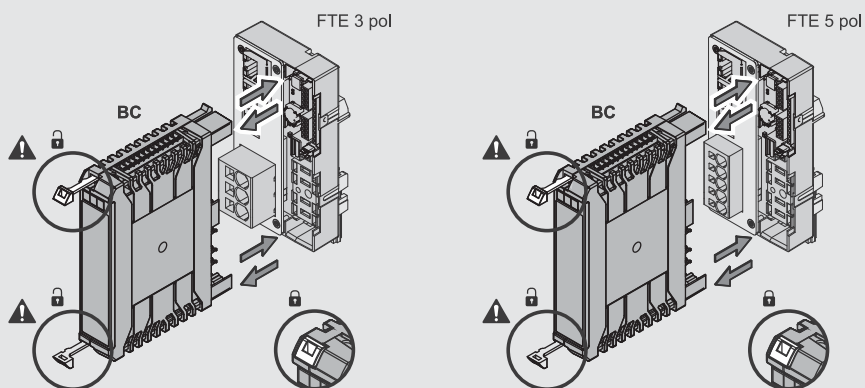


Use



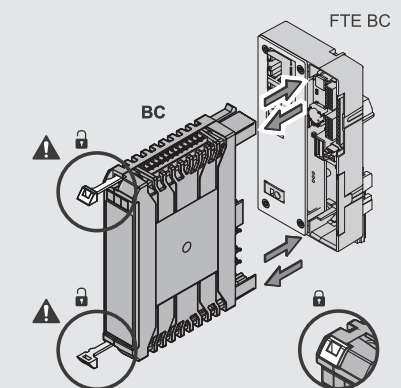
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

EtherNET-IP Function carrier with feed AC 500 V, integrated PE contact

Data bus 12-pole, Powerbus AC 500 V, 4 × 16 A

Control voltage connection: DC 24 V



Identification

Type	LCOS-FTE-PE-575-ETIP-02-1-L
Part No.	780772.575.1

Product version

Hardware revision	1.0
Datasheet version	03

Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with supply AC 500 V, 2×RJ45, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 500 V
Operating current	max. AC 16 A
Voltage drop	<80 mV
Connection type	Federzuganschluss 5×6 mm ² , 5×4 mm ² mit AE
Connection type	Federzuganschluss 5×AWG 10, 5×AWG 12 mit AE

Electrical data supplementary supply

Operating voltage	DC 18 V – DC 31.2 V
Rated voltage	DC 24 V
Operating current	max. DC 2 A
Protection device	Polarity reversal protection

Technical data sheet

Modular housing system · LCOS Modular housing system

Connection type input	Spring terminal 2 × 2.5 mm ² (AWG 26 – AWG 14)
-----------------------	--

Field bus connection

Interface mechanical	2xRJ45 bush with galvanic isolation 1.5 kV
Status indication	Link, activity

Slots

Slots	1 × LCOS function housing 22.5 mm
-------	-----------------------------------

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 39.0 mm
Weight/unit	0.25 kg
PU (units)	1

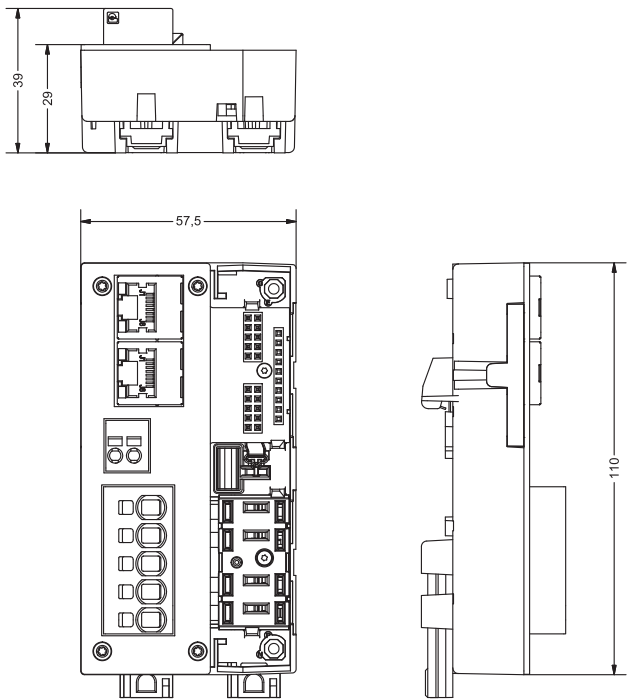
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

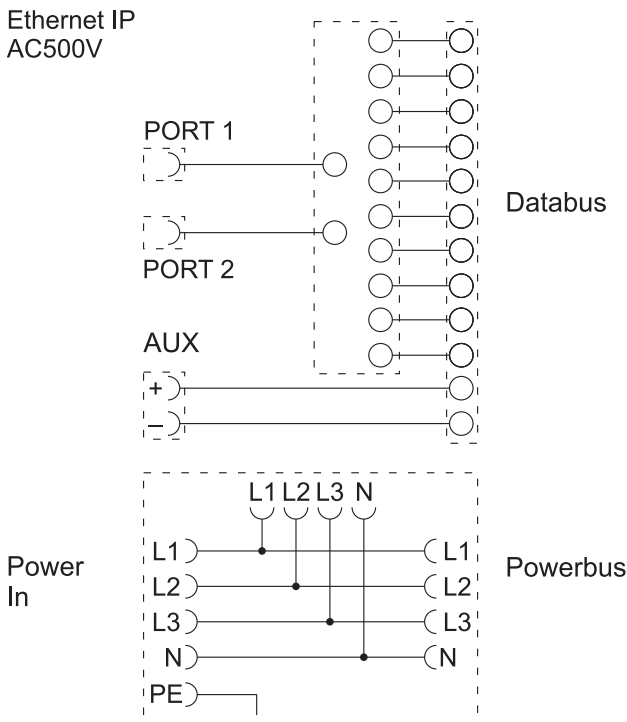
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4

Dimensions



PIN assignment



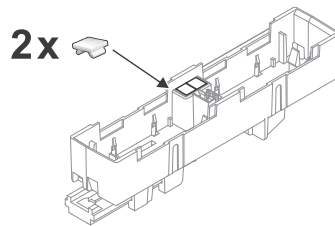
Technical data sheet

Modular housing system · LCOS Modular housing system

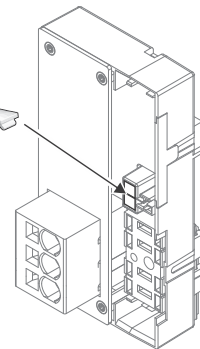
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

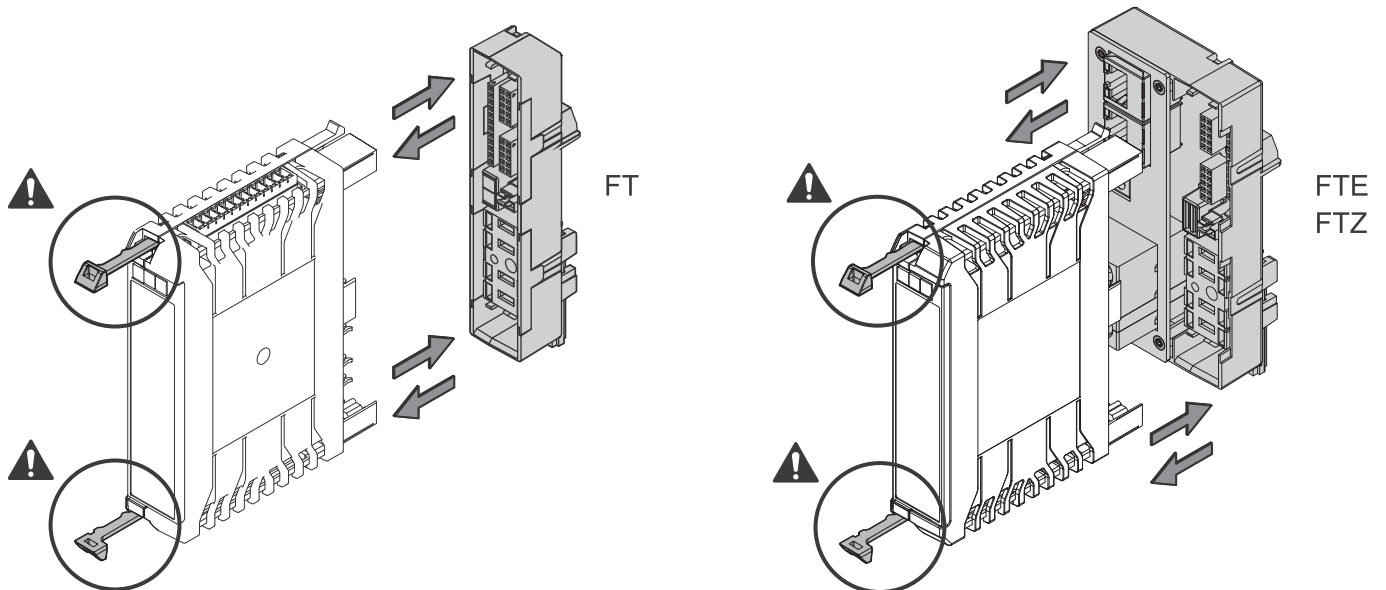
2x



2x

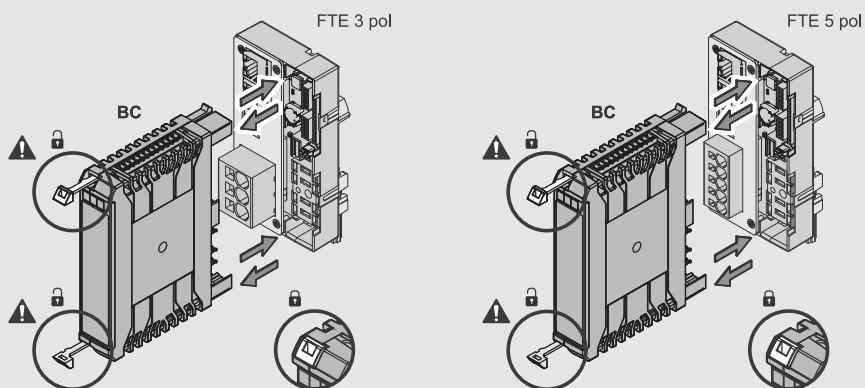


Use



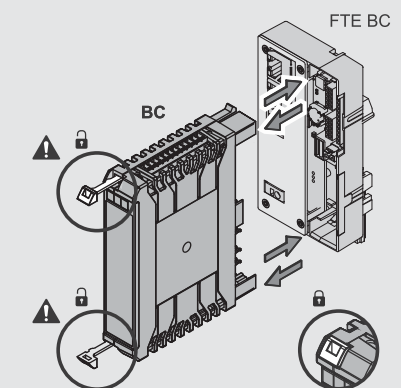
Use

LCOS CCI system



575-PN-02-1-L
575-EC-02-1-L
575-ETIP-02-1-L

LOCC-Box Net system



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

Technical data sheet

Modular housing system · LCOS Modular housing system

Function carrier with intermediate supply DC 24 V, integrated PE contact
Data bus 12-pole, Powerbus DC 24 V, 2 × 32 A



Identification

Type	LCOS-FTZ-PE-575-00-1
Part No.	780800.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 22.5 mm, with intermediate supply DC 24 V, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC/DC 30 V
Operating current	max. AC/DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Field bus connection

Status indication	Link, activity
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Slots

Slots	1 × LCOS function housing 22.5 mm
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Technical data sheet

Modular housing system · LCOS Modular housing system

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

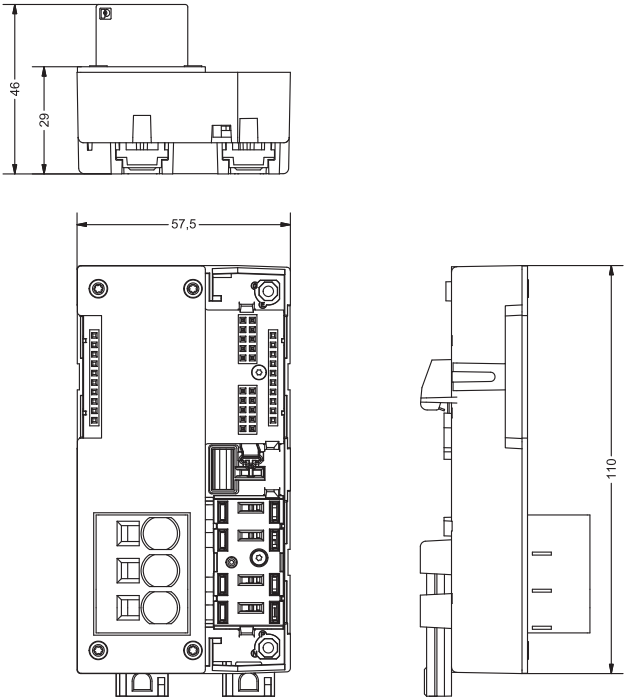
General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

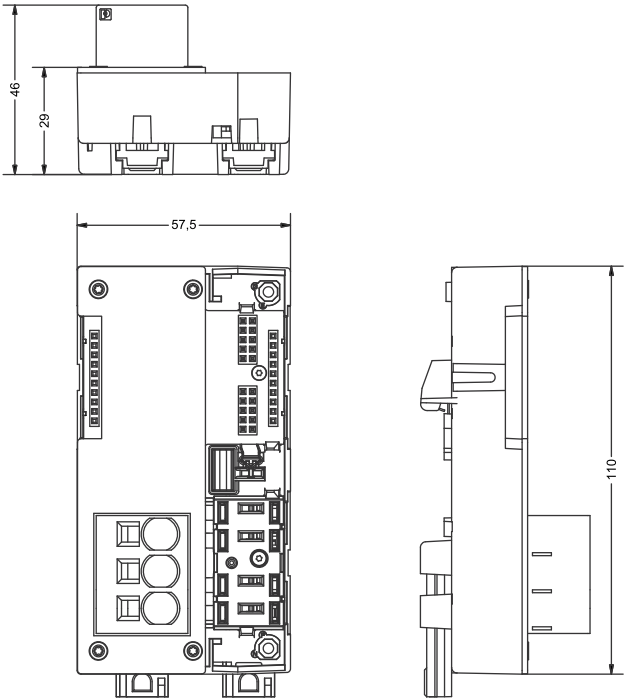
Certifications/Standards

Conformity	CE UKCA
Certifications	DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 DNV-CG-0339

Dimensions



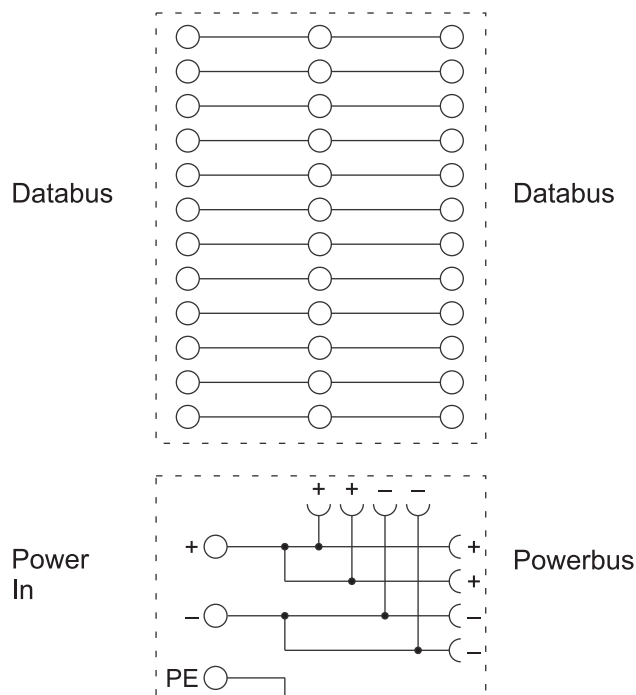
Dimensions



Technical data sheet

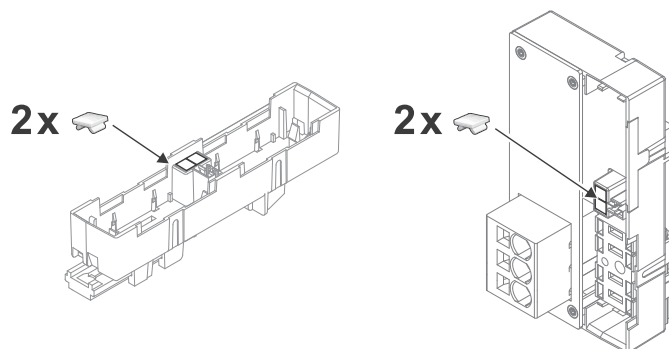
Modular housing system · LCOS Modular housing system

PIN assignment

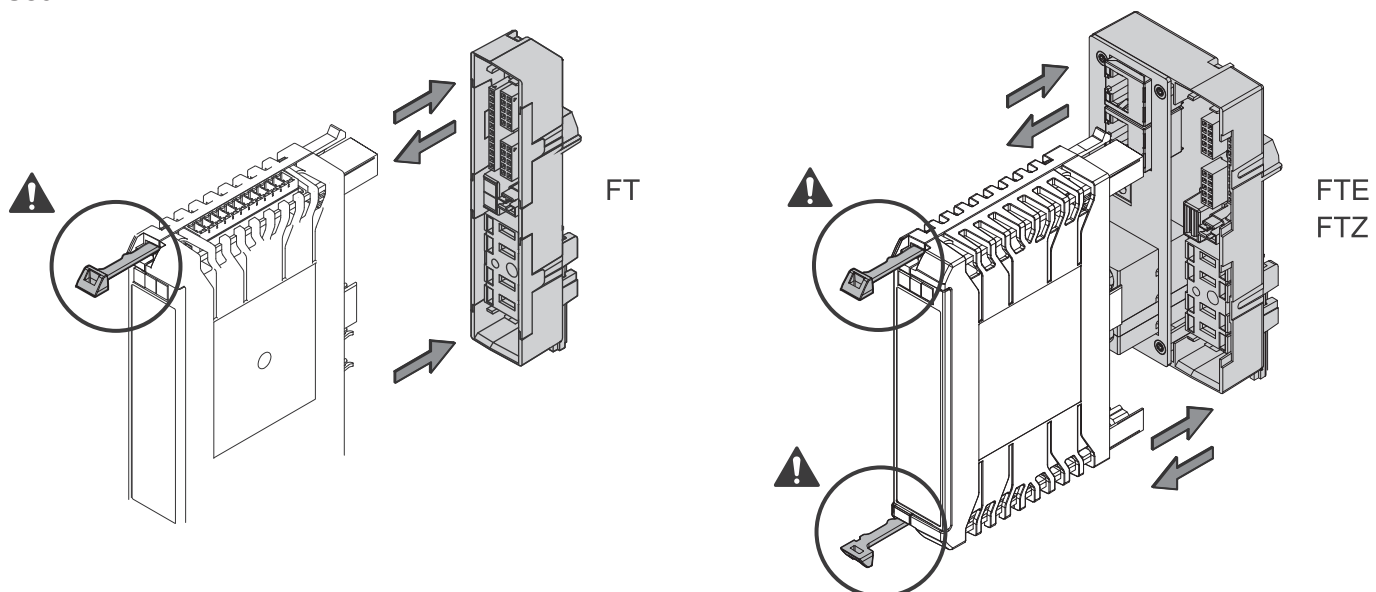


Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow



Use





Identification	Type	LCOS-FTZ-PE-575-01-1
	Part-No.	780801.575.1
Description	Function carrier with intermediate supply AC 230 V, integrated PE contact Data bus 12-pole, Powerbus AC 230 V, 2 × 32 A	
Use/Application/Properties		
Description	Function carrier 22.5 mm, with intermediate supply AC 230 V, with PE direct contact, ready for connection	
Electrical data Power Bus		
Operating voltage	max. AC 230 V	
Operating current	max. AC/DC 32 A	
Voltage drop	<80 mV	
Connection device	Spring terminal 3×16 mm ² , 3×10 mm ² with AE	
Connection device	Spring terminal 3×AWG 6, 3×AWG 8 with AE	
Field bus connection		
Status indication	Link, activity	
Slots		
Slots	1 × LCOS function housing 22.5 mm	

Technical data sheet • Modular housing system

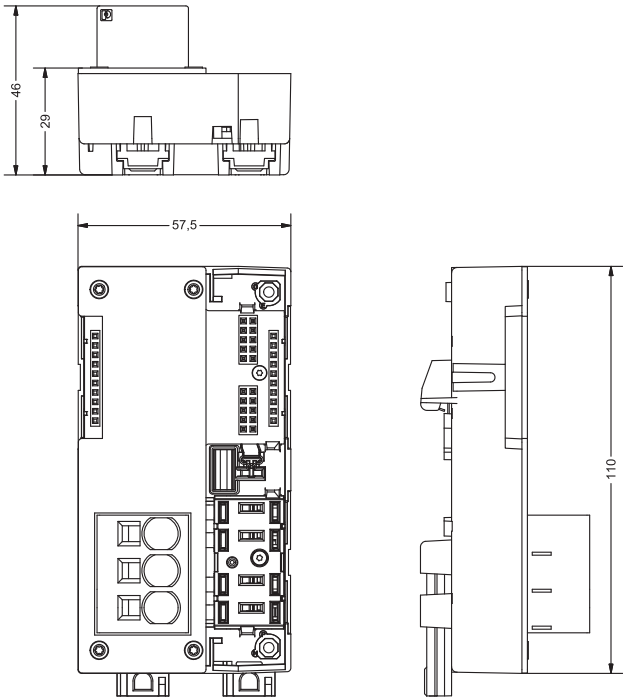
General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Application height	2000 m max.
Installation position	vertical
MTBF	9, 10, 11, 12
Protection class	I
Over voltage category	II
Degree of pollution	2
Dimensions (w × h × d)	57.5 × 28.0 × 110.0 mm
Weight	0.250 kg/piece
Standards	EN 61131-2
Approvals	DNV GL in preparation
PU	1 piece

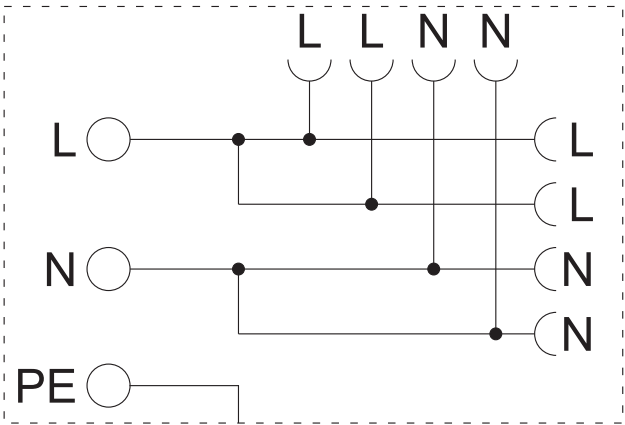
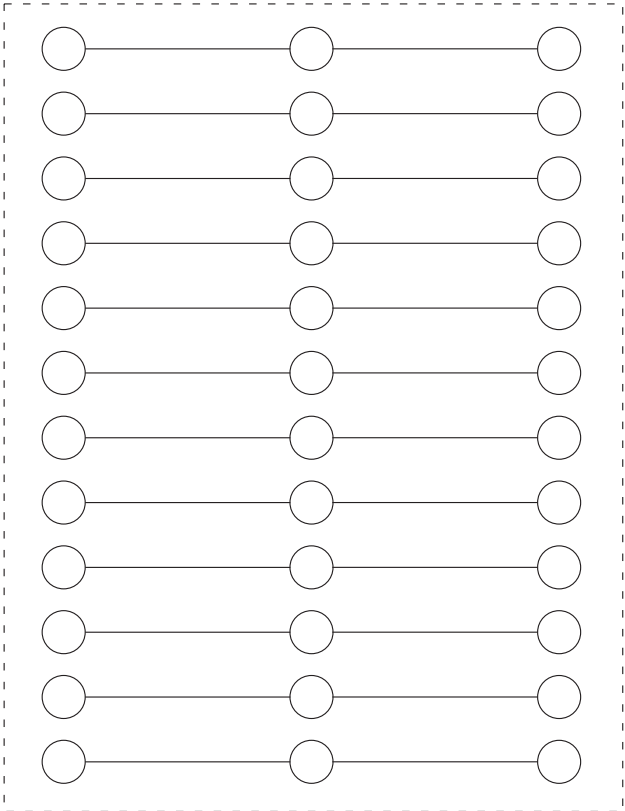
General ambient conditions

Operation temperature range	-20 °C ... +55 °C
Storage temperature range	-40 °C ... +70 °C
Relative air humidity	10 % – 95 % without condensation
Protection class	IP20
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27
Vibration resistance	1 g acc. to EN 60068-2-8

Dimensions



PIN assignment



Technical data sheet

Modular housing system · LCOS Modular housing system

Function carrier with intermediate supply AC 230 V, integrated PE contact

Data bus 12-pole, Powerbus AC 230 V, 2 × 32 A



Identification

Type	LCOS-FTZ-PE-575-01-1
Part No.	780801.575.1

Product version

Datasheet version	03
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Description

System Components	Function carrier with fieldbus
Description	Function carrier 57.5 mm, with intermediate supply AC 230 V, with PE direct contact, ready for connection

Electrical data Power Bus

Operating voltage	max. AC 230 V
Operating current	max. AC/DC 32 A
Voltage drop	<80 mV
Connection type	Spring terminal 3×16 mm ² , 3×10 mm ² with AE
Connection type	Spring terminal 3×AWG 6, 3×AWG 8 with AE

Field bus connection

Status indication	Link, activity
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Slots

Slots	1 × LCOS function housing 22.5 mm
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Technical data sheet

Modular housing system · LCOS Modular housing system

General

Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	pebble grey
Mounting	DIN rail mountable TS35 (EN 60715)
Max. altitude operation	2000 m max.
Installation position	Vertical
MTBF	on request
Protection class	I
Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	57.5 mm × 110.0 mm × 46.0 mm
Weight/unit	0.25 kg
PU (units)	1

General ambient conditions

Operation temperature range	-25 °C ... +55 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	II
Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

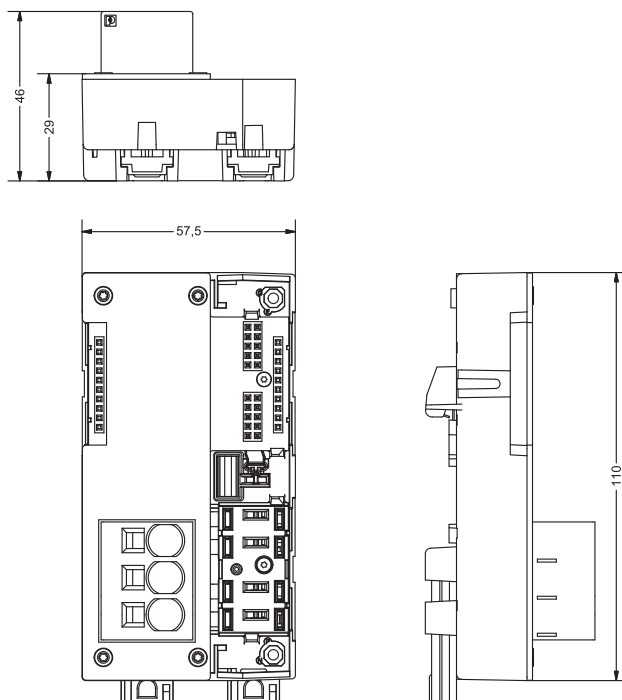
Certifications/Standards

Conformity	CE UKCA
Certifications	DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 DNV-CG-0339

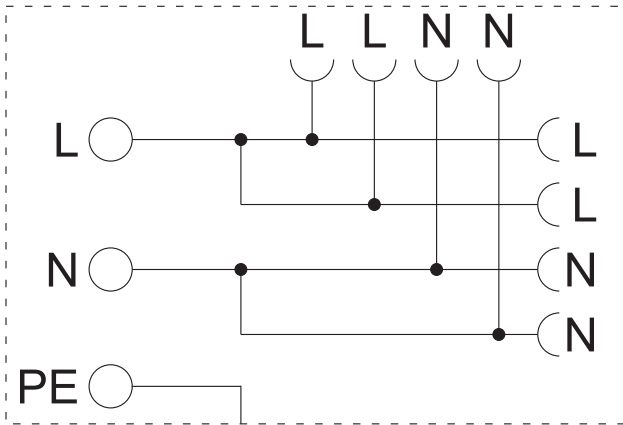
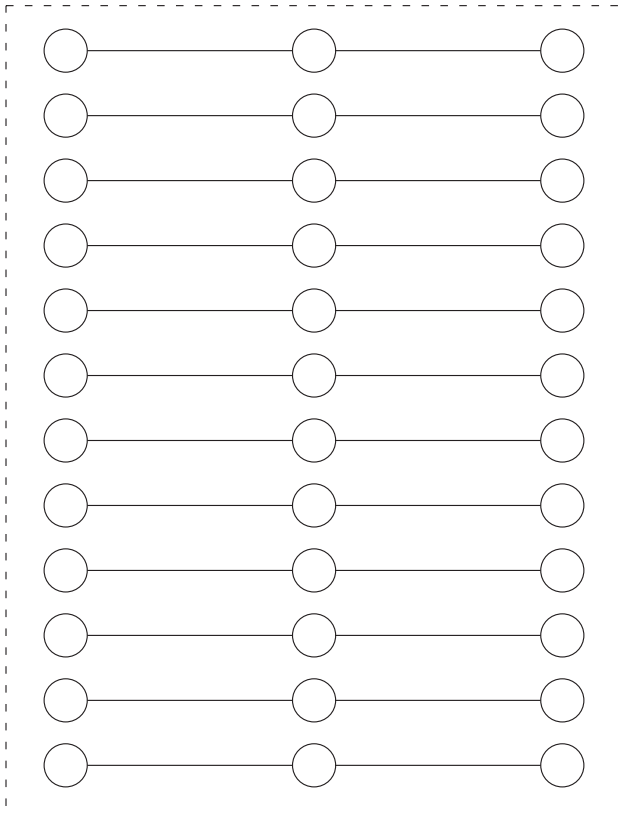
Technical data sheet

Modular housing system · LCOS Modular housing system

Dimensions



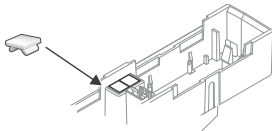
PIN assignment



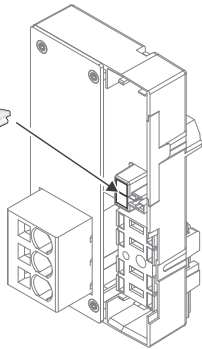
Use

- 780981.000.2 - white
- 780982.000.2 - red
- 780983.000.2 - blue
- 716434 - yellow

2x



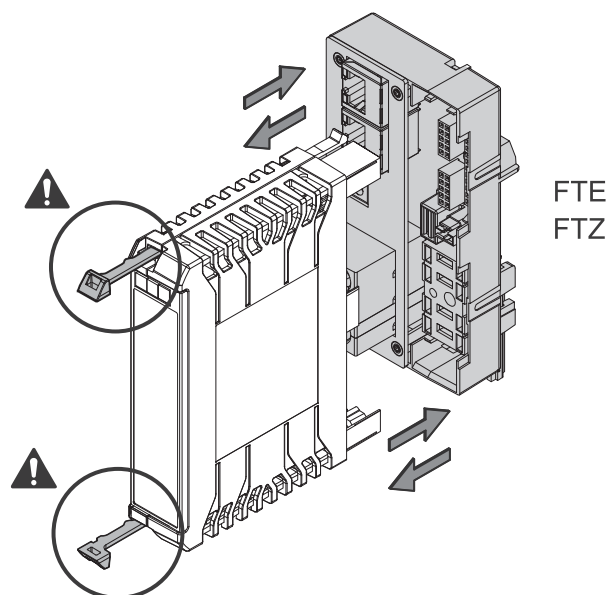
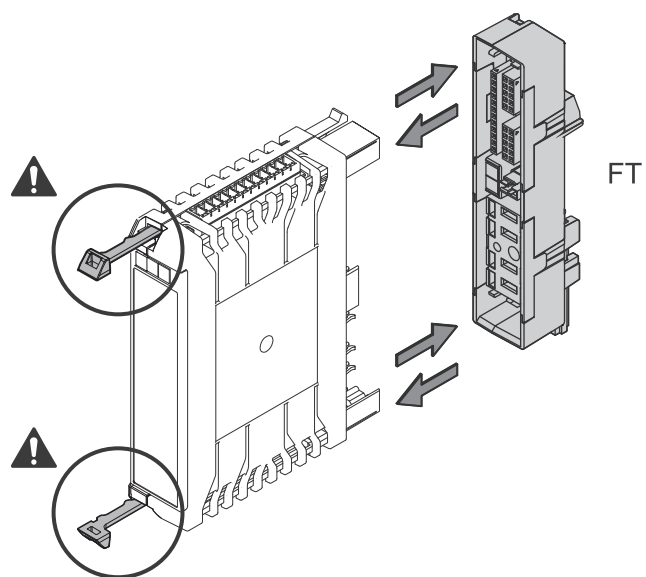
2x



Technical data sheet

Modular housing system · LCOS Modular housing system

Use



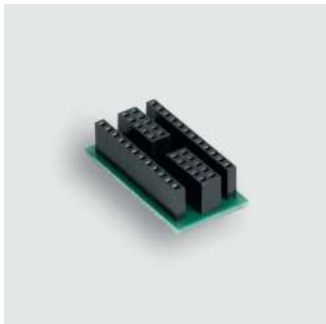
Technical data sheet

Load monitoring · LCOS accessories

LCOS data module

12-pin

22.5 mm



Identification

Type	LCOS-ZB-DM-225-12-00-1
Part No.	780900.225.2

Product version

Datasheet version	01
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Description

System Components	Data module
Description	Data module 22.5 mm

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 12-ping, outlet: 2×10-pin

General

Connection type	Data bridge 12-pole
Mounting	Latches into position On LCOS function carrier 22.5 mm
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 19.0 mm
Weight/unit	0.004 kg
PU (units)	10

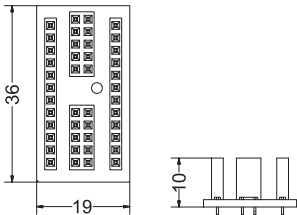
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

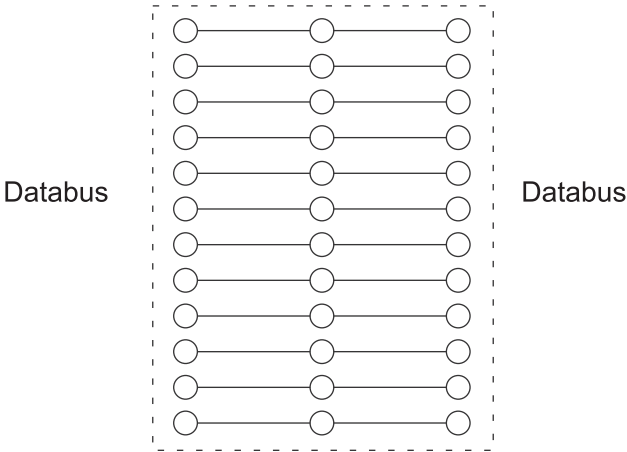
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

Dimensions



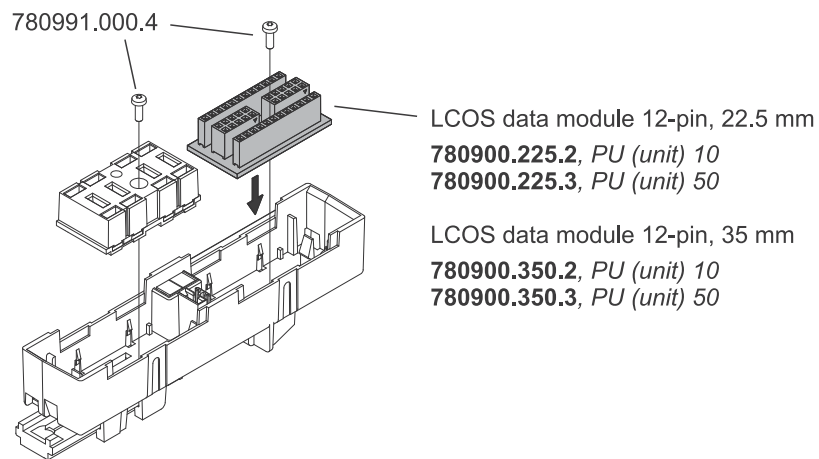
PIN assignment



Technical data sheet

Load monitoring · LCOS accessories

Use



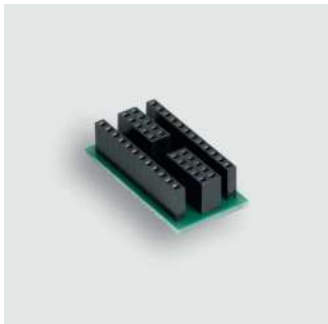
Technical data sheet

Load monitoring · LCOS accessories

LCOS data module

12-pin

22.5 mm



Identification

Type	LCOS-ZB-DM-225-12-00-1
Part No.	780900.225.3

Product version

Datasheet version	01
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Description

System Components	Data module
Description	Data module 22.5 mm

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 12-ping, outlet: 2×10-pin

General

Connection type	Data bridge 12-pole
Mounting	Latches into position On LCOS function carrier 22.5 mm
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 19.0 mm
Weight/unit	0.004 kg
PU (units)	50

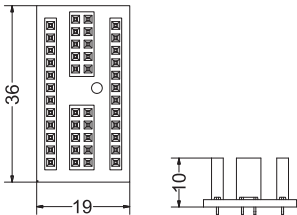
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

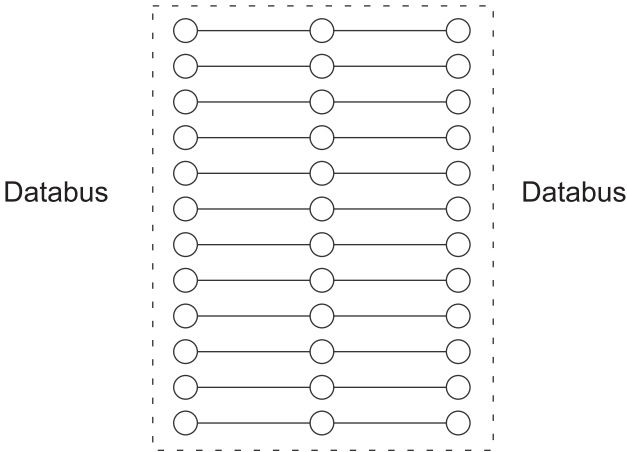
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

Dimensions



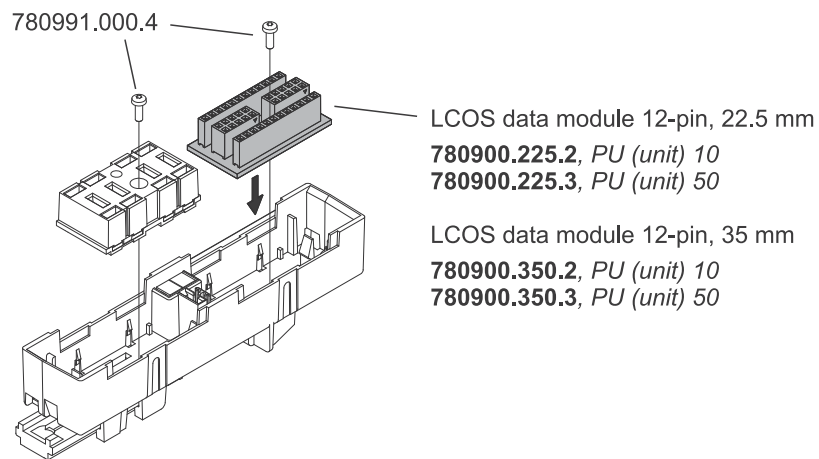
PIN assignment



Technical data sheet

Load monitoring · LCOS accessories

Use



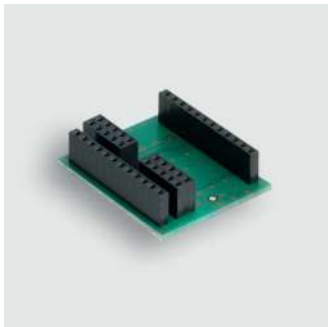
Technical data sheet

Load monitoring · LCOS accessories

LCOS data module

12-pin

35 mm



Identification

Type	LCOS-ZB-DM-350-12-00-1
Part No.	780900.350.2

Product version

Datasheet version	01
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Description

System Components	Data module
Description	Data module 35 mm

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 12-ping, outlet: 2×10-pin

General

Connection type	Data bridge 12-pole
Mounting	Latches into position On LCOS function carrier 35 mm
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 19.0 mm
Weight/unit	0.004 kg
PU (units)	10

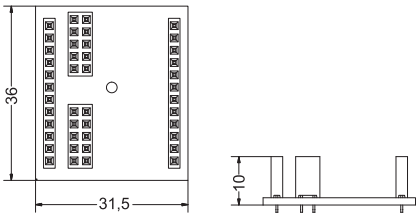
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

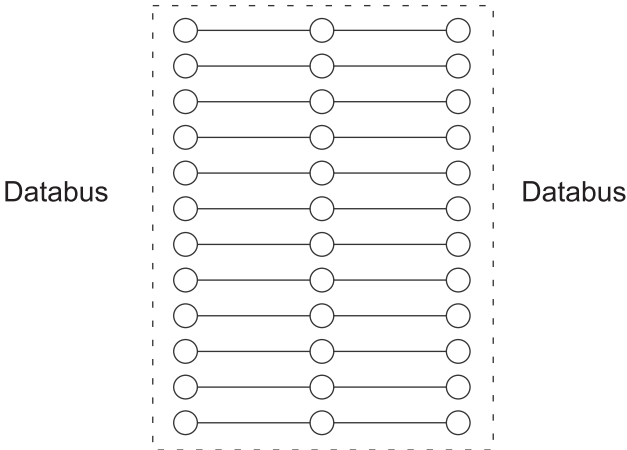
Certifications/Standards

Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1
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Dimensions



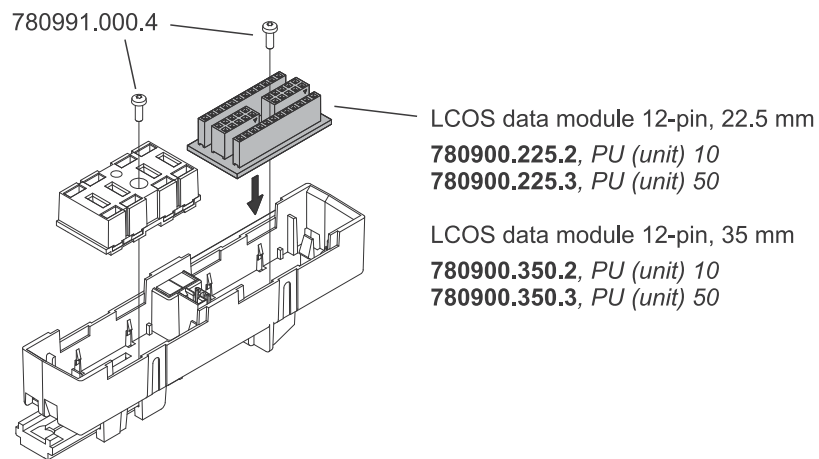
PIN assignment



Technical data sheet

Load monitoring · LCOS accessories

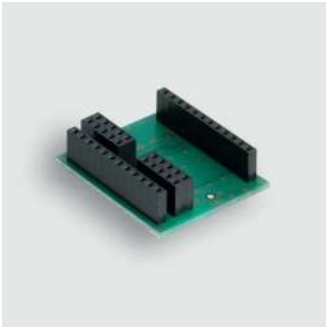
Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS data module
12-pin
35 mm



Identification

Type	LCOS-ZB-DM-350-12-00-1
Part No.	780900.350.3

Product version

Datasheet version	01
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Description

System Components	Data module
Description	Data module 35 mm

Data module

Material PCB	FR4
Material connector	PE-HT
Operating voltage	max. DC 30 V
Operating current	max. DC 2 A/contact
System current	max. DC 8 A
Pole number	Input/output: 12-ping, outlet: 2×10-pin

General

Connection type	Data bridge 12-pole
Mounting	Latches into position On LCOS function carrier 35 mm
Contact material	CuZn

Technical data sheet

Load monitoring · LCOS accessories

Degree of protection	IP20 (EN 60529)
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 19.0 mm
Weight/unit	0.004 kg
PU (units)	50

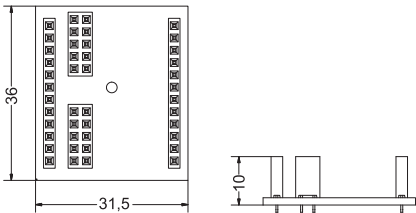
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

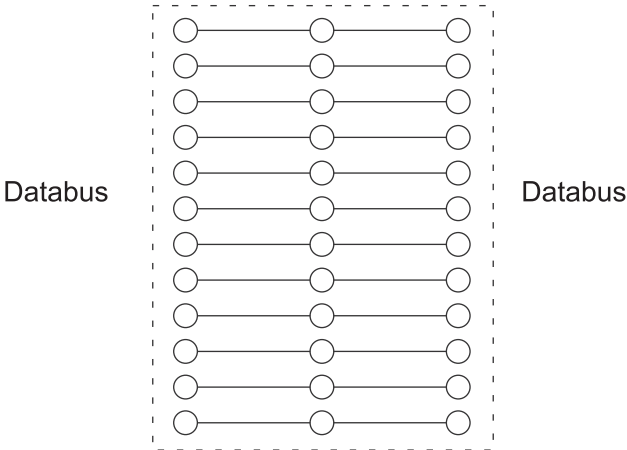
Certifications/Standards

Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1
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Dimensions



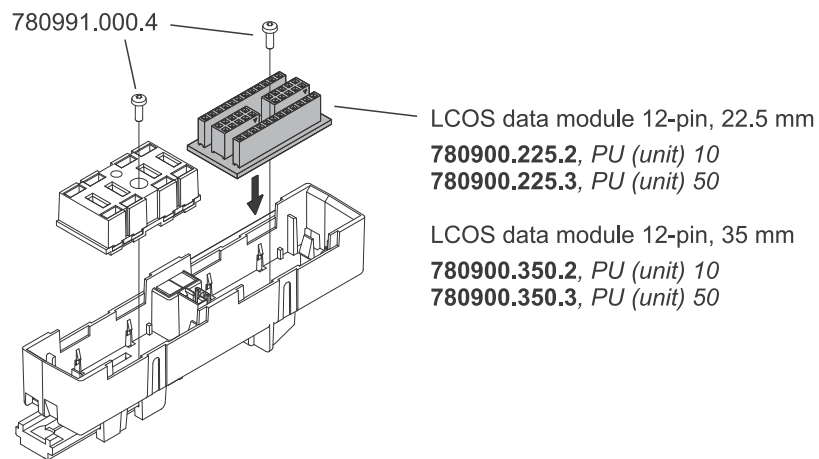
PIN assignment



Technical data sheet

Load monitoring · LCOS accessories

Use



Technical data sheet

Load monitoring · LCOS accessories

Power module
AC/DC 500 V/16 A per phase
4-pin, 22.5 mm



Identification

Type LCOS-ZB-PM-225-00-1
Part No. [780910.225.2](#)

Product version

Datasheet version 01

Description

System Components Power module
Description Power module 22.5 mm

General

Connection type Power bridge 1-pole
Material PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage max. AC/DC 500 V
Operating current max. AC/DC 16 A/phase
System current max. AC/DC 64 A
Mounting Latches into position
On LCOS function carrier
22.5 mm

Contact material CuCrSiTi
Degree of protection IP20 (EN 60529)
Pole number 4
Dimensions (w × h × d) 36.0 mm × 11.7 mm × 19.0 mm
Weight/unit 0.02 kg
PU (units) 10

Technical data sheet

Load monitoring · LCOS accessories

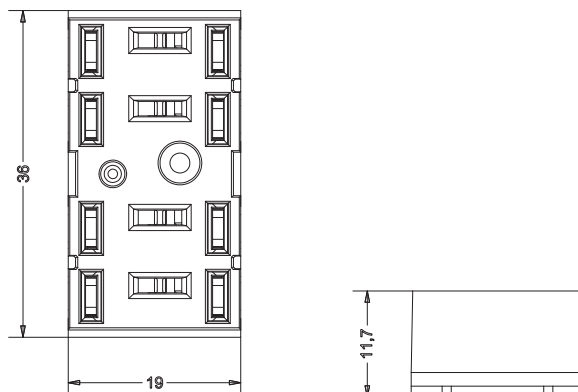
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

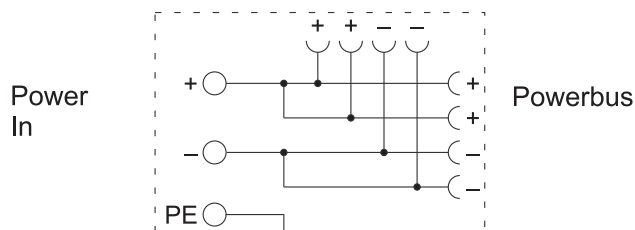
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

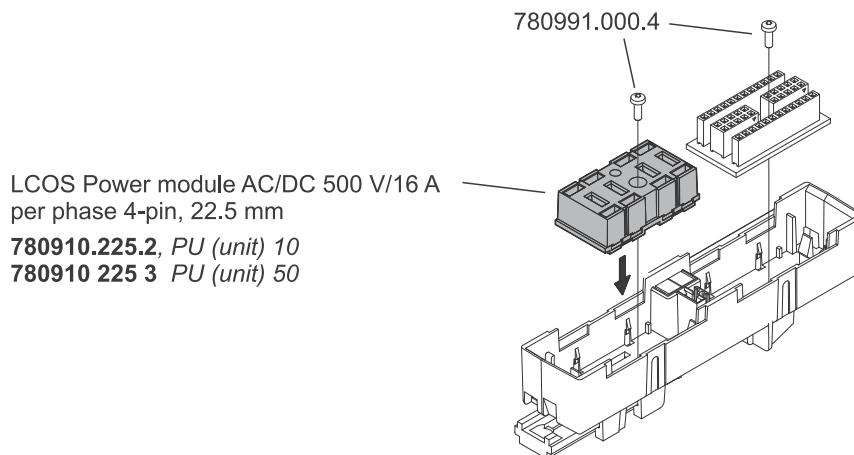
Dimensions



PIN assignment



Use



Technical data sheet

Load monitoring · LCOS accessories

Power module
AC/DC 500 V/16 A per phase
4-pin, 22.5 mm



Identification

Type	LCOS-ZB-PM-225-00-1
Part No.	780910.225.3

Product version

Datasheet version	01
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Description

System Components	Power module
Description	Power module 22.5 mm

General

Connection type	Power bridge 1-pole
Material	PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/phase
System current max.	AC/DC 64 A
Mounting	Latches into position On LCOS function carrier 22.5 mm
Contact material	CuCrSiTi
Degree of protection	IP20 (EN 60529)
Pole number	4
Dimensions (w × h × d)	36.0 mm × 11.7 mm × 19.0 mm
Weight/unit	0.02 kg
PU (units)	50

Technical data sheet

Load monitoring · LCOS accessories

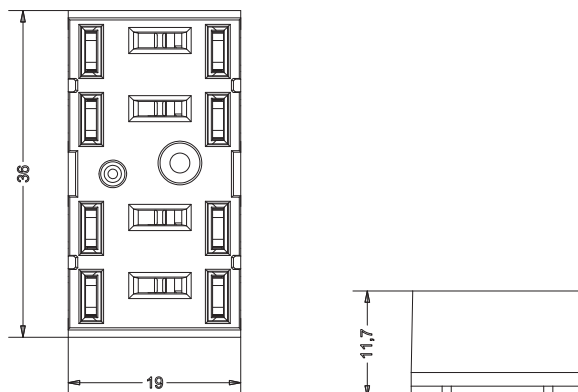
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

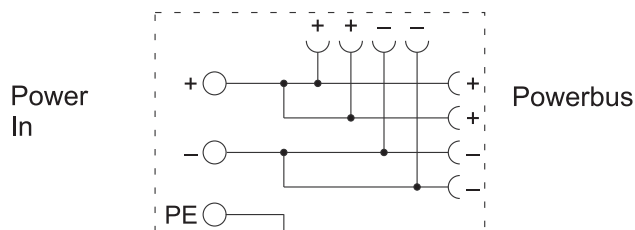
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

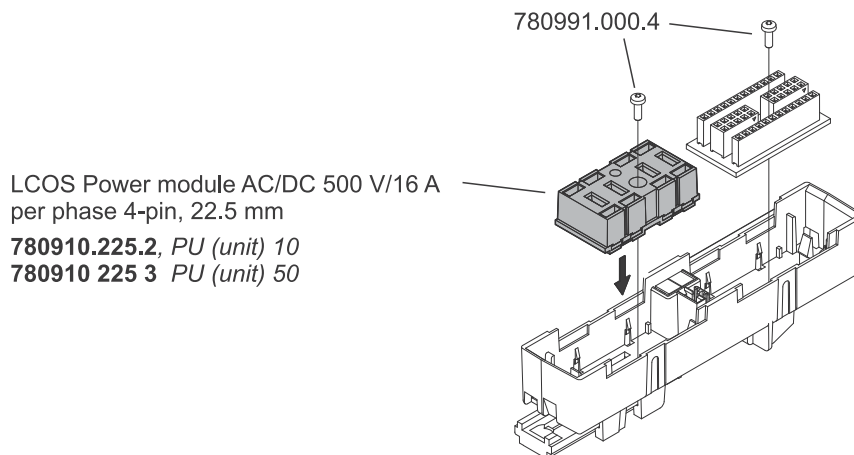
Dimensions



PIN assignment



Use



Technical data sheet

Load monitoring · LCOS accessories

Power module
AC/DC 500 V/16 A per phase
4-pin, 35 mm



Identification

Type	LCOS-ZB-PM-350-00-1
Part No.	780910.350.2

Product version

Datasheet version	01
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Description

System Components	Power module
Description	Power module 35 mm

General

Connection type	Power bridge 1-pole
Material	PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/phase
System current max.	AC/DC 64 A
Mounting	Latches into position On LCOS function carrier 35 mm
Contact material	CuCrSiTi
Degree of protection	IP20 (EN 60529)
Pole number	4
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 31.5 mm
Weight/unit	0.02 kg
PU (units)	10

Technical data sheet

Load monitoring · LCOS accessories

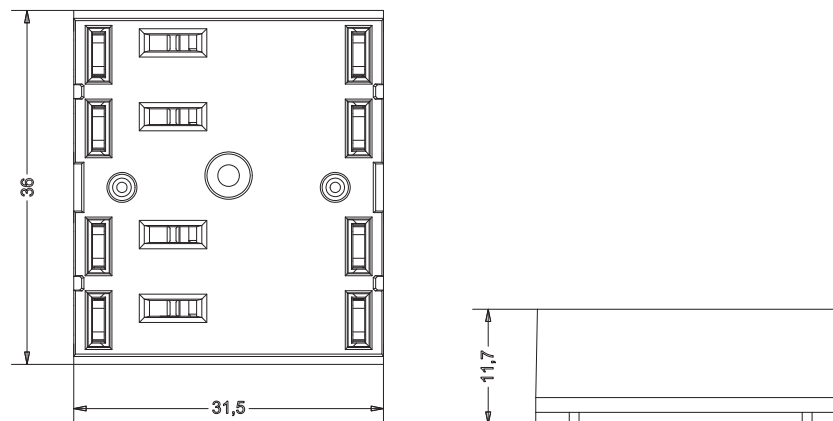
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

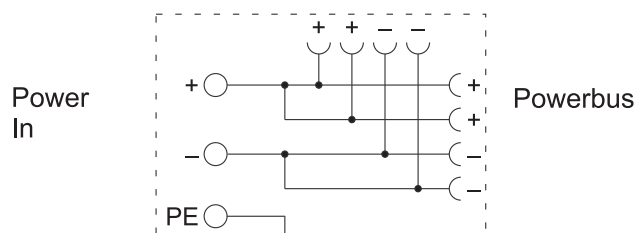
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

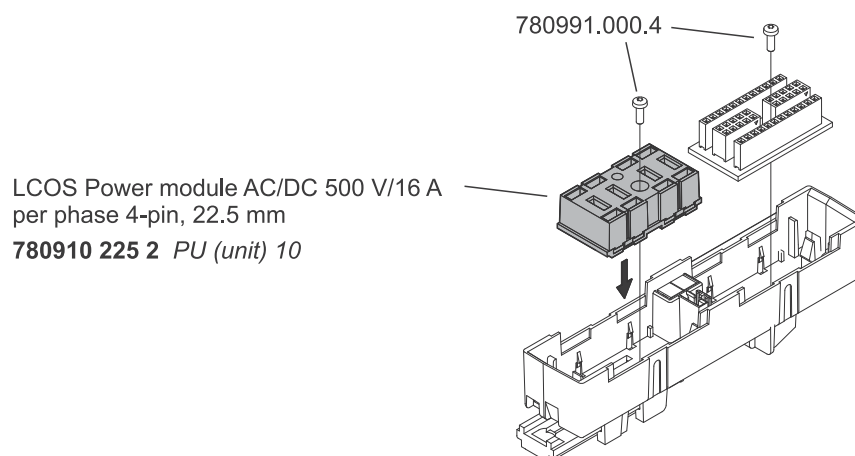
Dimensions



PIN assignment



Use



Technical data sheet

Load monitoring · LCOS accessories

Power module
AC/DC 500 V/16 A per phase
4-pin, 35 mm



Identification

Type LCOS-ZB-PM-350-00-1
Part No. [780910.350.3](#)

Product version

Datasheet version 01

Description

System Components Power module
Description Power module 35 mm

General

Connection type	Power bridge 1-pole
Material	PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 16 A/phase
System current max.	AC/DC 64 A
Mounting	Latches into position On LCOS function carrier 35 mm
Contact material	CuCrSiTi
Degree of protection	IP20 (EN 60529)
Pole number	4
Dimensions (w × h × d)	36.0 mm × 10.0 mm × 31.5 mm
Weight/unit	0.02 kg
PU (units)	50

Technical data sheet

Load monitoring · LCOS accessories

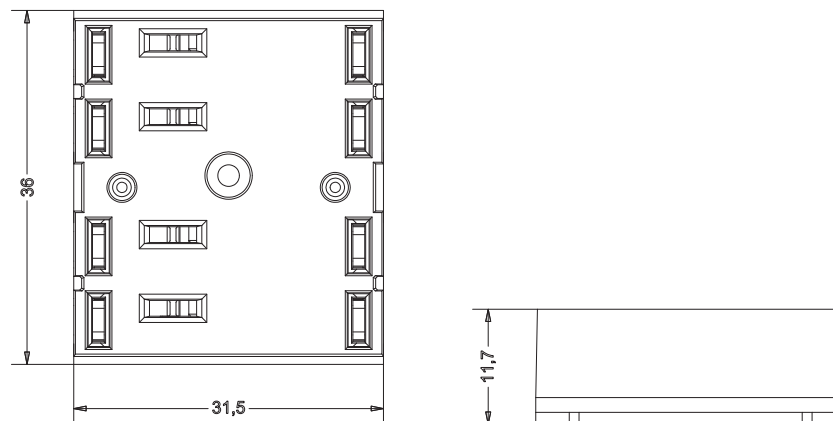
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

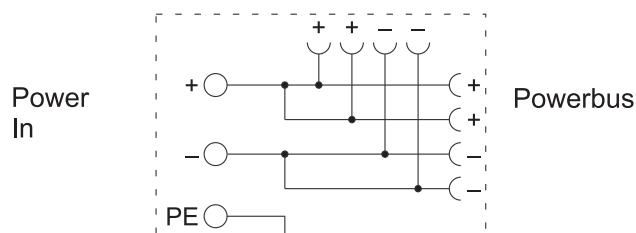
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

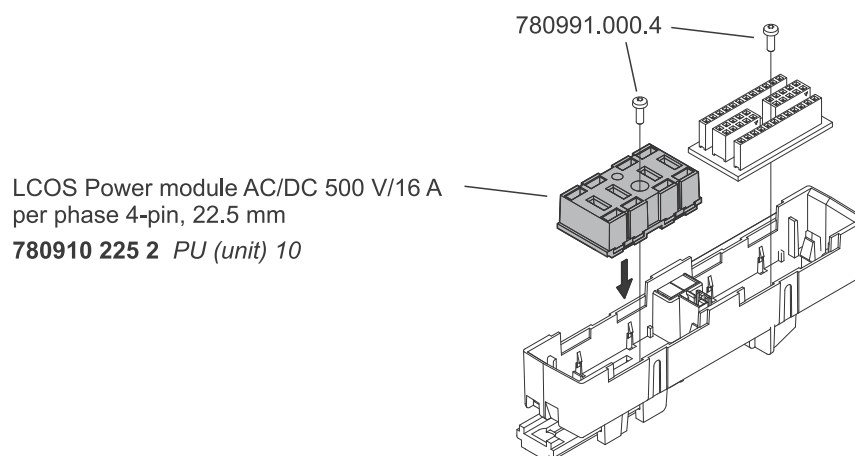
Dimensions



PIN assignment



Use



Technical data sheet

Load monitoring · LCOS accessories

LCOS plug-in terminal

Push-In, 12-pin, pin spacing 3.50
printed 12 – 1



Identification

Type	LCOS-ZB-KL-FS-350-15-12
Part No.	780921.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Spring-cage push-in terminal block, pluggable in LCOS functional housing, black, RM 3.50, 12-pin, 1.5 mm ² , 12-1 printed. Pushers and cable entries parallel to the connection direction on the non-codable side.

General

Design	Push-In terminal block, pluggable RM 3.50
Connection cross-section	0.08 – 1.5 mm ²
Connection cross-section	AWG 28 – AWG 16
Connection type	Push-In
Strip length	9 mm
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	black
Operating voltage	max. AC/DC 160 V
Operating current	max. 8 A
Mounting	Pluggable, on LCOS function housing
Installation position	Any

Technical data sheet

Load monitoring · LCOS accessories

Contact material	CuSn
Degree of protection	IP20 (EN 60529)
Pole number	12
Dimensions (w × h × d)	42.8 mm × 12.4 mm × 20.9 mm
Weight/unit	0.11 kg
PU (units)	10

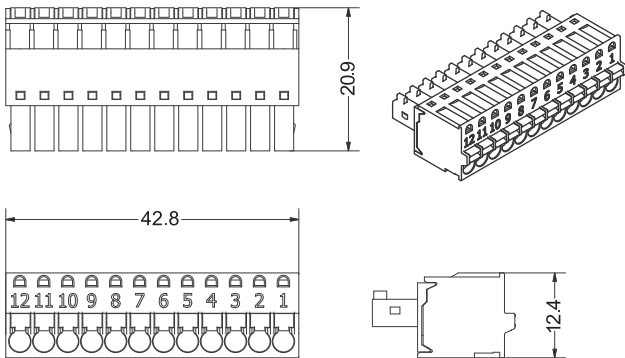
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III
Degree of pollution	3

Certifications/Standards

Certifications	cURus V / A / AMG: 150 / 8 / 28-16 Appr. UL File-No. E121004 SEV 1.5 mm²: 130 V / 2.5 kV / 8 A
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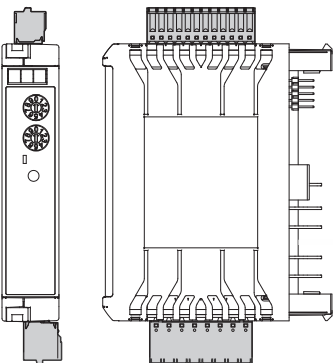
Dimensions



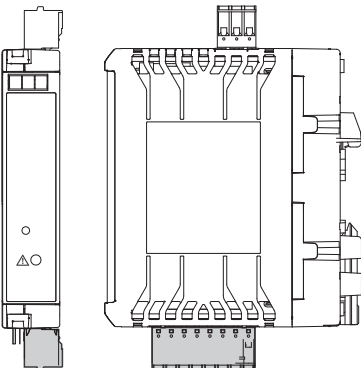
Use

LCOS-CC/ LCOS-CC-I

780921.000.2
780921.002.2

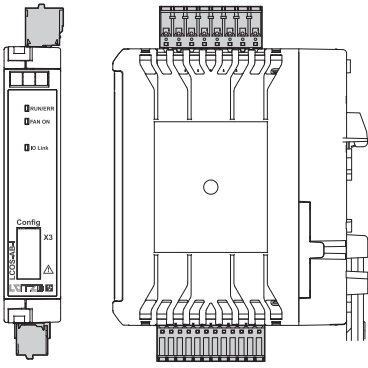


LCOS-PS



LCOS-AB-I

780922.000.2
780922.002.2



780921.000.2
780921.002.2

Technical data sheet

Load monitoring · LCOS accessories

LCOS plug-in terminal

Screw terminal, 12-pin, pin spacing 3.50
printed 12 – 1



Identification

Type	LCOS-ZB-KL-SS-350-15-12
Part No.	780921.002.2

Product version

Datasheet version	02
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Description

System Components	Accessories
Description	Screw terminal, pluggable on LCOS functional carrier, black, RM 3.50, 12-pole, 1.5 mm², 12-1 printed. The wire entries are parallel to the plug-in direction on the non-codable side. Note: Product picture similar (push-in), the dimensional drawing (screw connection) corresponds to the final product.

General

Design	Screw terminal, pluggable RM 3.50
Connection cross-section	0.08 – 1.5 mm ²
Connection cross-section	AWG 28 – AWG 16
Connection type	Screw terminal
Strip length	6 mm
Screwdriver	3,0 × 0,5 mm
Tightening torque	0.25 Nm (SEV) / 2.2 lb-in (UL)
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	Black

Technical data sheet

Load monitoring · LCOS accessories

Operating voltage	Max. AC/DC 160 V
Operating current	Max. 8 A
Mounting	Pluggable, on LCOS function housing
Installation position	Any
Contact material	CuSn
Degree of protection	IP20 (IEC 60529)
Pole number	12
Dimensions (w × h × d)	42.0 mm × 11.1 mm × 15.5 mm
Weight/unit	0.11 kg
PU (units)	10

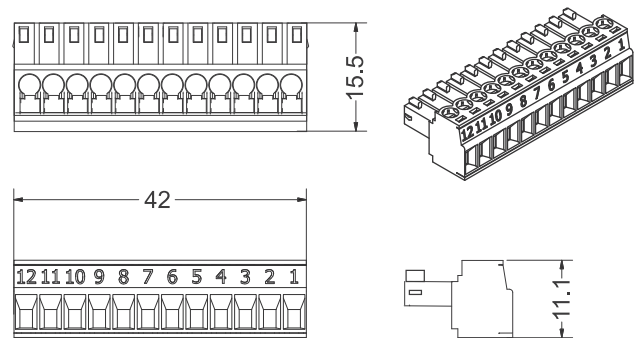
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III
Degree of pollution	3

Certifications/Standards

Certifications	cURus Appr. UL File-No. E121004
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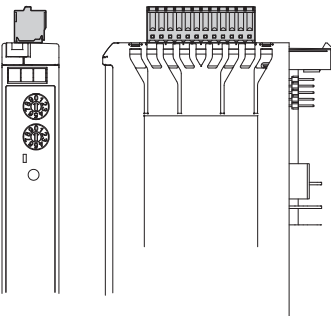
Dimensions



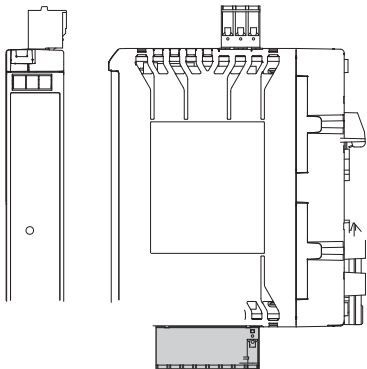
Use

LCOS-CC/ LCOS-CC-I

780921.000.2
780921.002.2

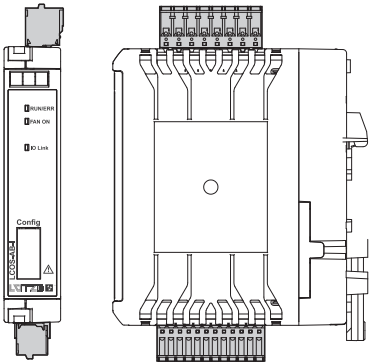


LCOS-PS



LCOS-AB-I

780922.000.2
780922.002.2



780921.000.2
780921.002.2

LCOS plug-in terminal
Push-In, 8-pin, pin spacing 5.08
printed 8 – 1



Identification

Type	LCOS-ZB-KL-FS-508-25-8
Part No.	780922.000.2

Product version

Datasheet version	02
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Description

System Components	Accessories
Description	Spring-cage push-in terminal block, pluggable in LCOS functional housing, black, RM 5.08, 8-pin, 2.5 mm², 8-1 printed. Pushers and cable entries parallel to the connection direction on the non-codable side.

General

Design	Push-In terminal block, pluggable RM 5.08
Connection cross-section	0.08 – 2.5 mm²
Connection cross-section	AWG 28 – AWG 12
Connection type	Push-In
Strip length	10 mm
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	Black
Operating voltage	Max. AC/DC 300 V
Operating current	Max. 12 A
Mounting	Pluggable, on LCOS function housing
Installation position	Any

Technical data sheet

Load monitoring · LCOS accessories

Contact material	CuSn
Degree of protection	IP20 (EN 60529)
Pole number	8
Dimensions (w × h × d)	40.6 mm × 15.0 mm × 25.0 mm
Weight/unit	0.1 kg
PU (units)	10

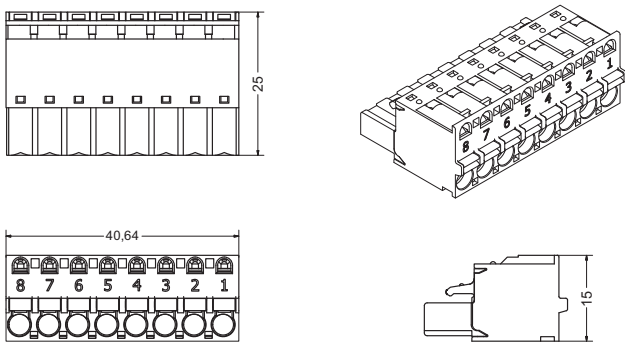
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III
Degree of pollution	3

Certifications/Standards

Certifications	cURus Appr. UL File-No. E121004
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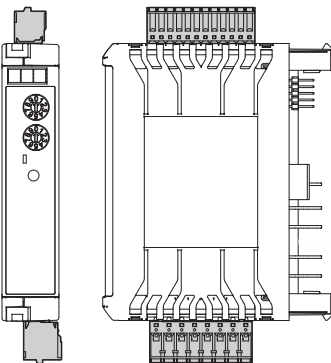
Dimensions



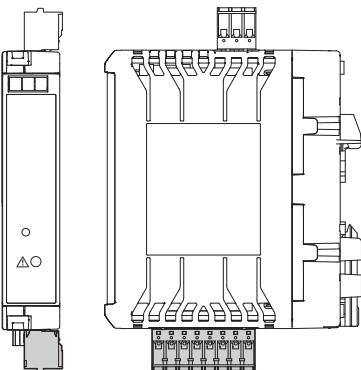
Use

LCOS-CC/ LCOS-CC-I

780921.000.2
780921.002.2

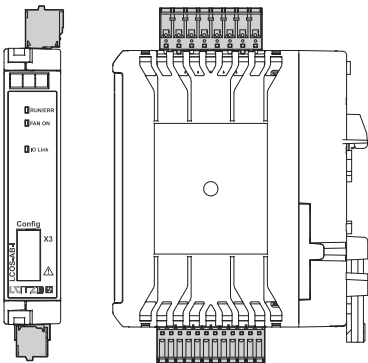


LCOS-PS



LCOS-AB-I

780922.000.2
780922.002.2



780921.000.2
780921.002.2

Technical data sheet

Load monitoring · LCOS accessories

LCOS plug-in terminal

Screw terminal, 8-pin, pin spacing 5.08
printed 8 – 1



Identification

Type	LCOS-ZB-KL-SS-508-25-8
Part No.	780922.002.2

Product version

Datasheet version	02
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Description

System Components	Accessories
Description	Screw terminal, pluggable on LCOS functional carrier, black, RM 5,08, 8-pole, 2.5 mm², 8-1 printed. The wire entries are parallel to the plug-in direction on the non-codable side. Note: Product picture similar (push-in), the dimensional drawing (screw connection) corresponds to the final product.

General

Design	Screw terminal, pluggable RM 5.08
Connection cross-section	0.08 – 2.5 mm ²
Connection cross-section	AWG 28 – AWG 12
Connection type	Screw terminal
Strip length	8 mm
Screwdriver	3,0 × 0,5 mm
Tightening torque	0.5 Nm (SEV) / 4.4 lb-in (UL)
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	Black

Technical data sheet

Load monitoring · LCOS accessories

Operating voltage	Max. AC/DC 300 V
Operating current	Max. 12 A
Mounting	Pluggable, on LCOS function housing
Installation position	Any
Contact material	CuSn
Degree of protection	IP20 (EN 60529)
Pole number	8
Dimensions (w × h × d)	40.6 mm × 15.5 mm × 18.2 mm
Weight/unit	0.1 kg
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Over voltage category	III
Degree of pollution	3

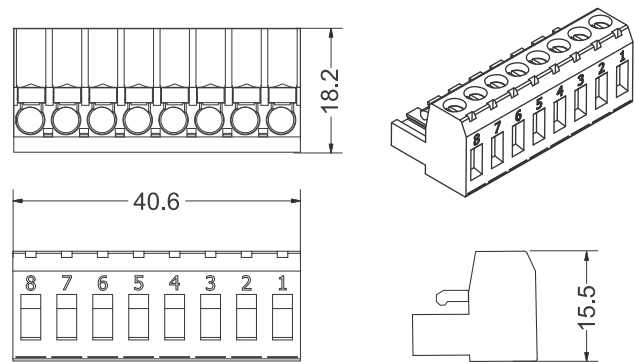
Certifications/Standards

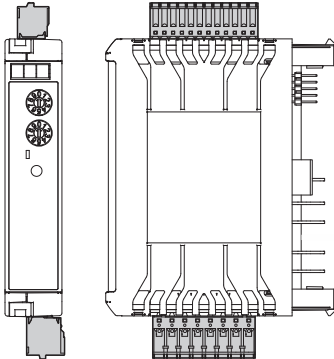
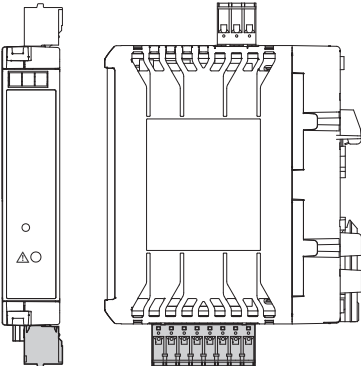
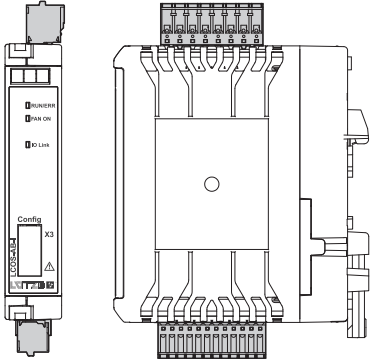
Certifications	cURus Appr. UL File-No. E121004
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Notes and Comments

Note	Note for UL approval: Extended conductor connections: 2 AWG 16-18, or 1 AWG 16 stranded with 1 AWG 18 solid, or 1 AWG 16 stranded with 1 AWG 18 stranded.
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Dimensions



Use		
LCOS-CC/ LCOS-CC-I	LCOS-PS	LCOS-AB-I
780921.000.2 780921.002.2		780922.000.2 780922.002.2
		
780922.000.2 780922.002.2	780922.000.2 780922.002.2	780921.000.2 780921.002.2

Technical data sheet · Load monitoring

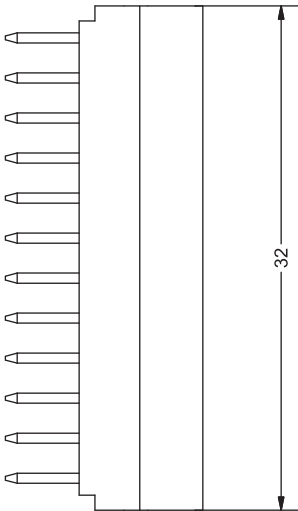
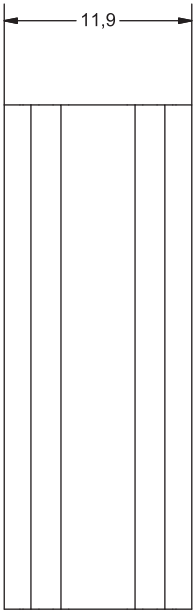
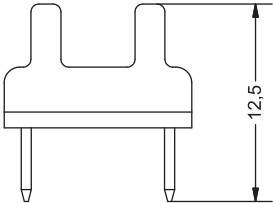
LCOS accessories



Identification	Type	LCOS-ZB-DB-12-00
	Part-No.	780960.012.2
Description		
	Accessories	
Use/Application/Properties		
Description	Data bridge 12-pole, insulated	
General		
Mounting	DIN rail mountable TS35 with interlock (EN 60715)	
PU	10 piece	

Technical data sheet · Load monitoring

Dimensions



Technical data sheet · Load monitoring

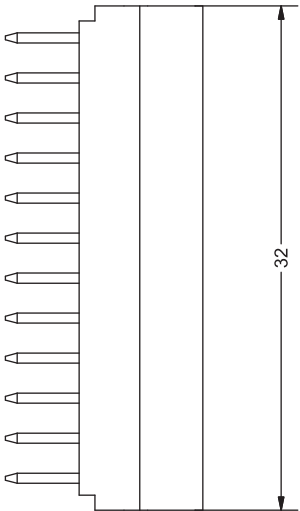
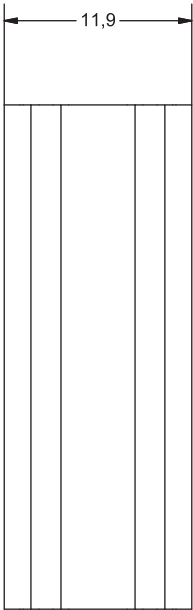
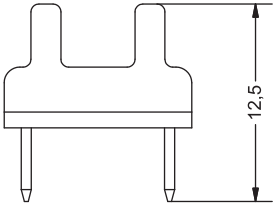
LCOS accessories



Identification	Type	LCOS-ZB-DB-12-00
	Part-No.	780960.012.3
Description		
	Accessories	
Use/Application/Properties		
Description	Data bridge 12-pole, insulated	
General		
Mounting	DIN rail mountable TS35 with interlock (EN 60715)	
PU	50 piece	

Technical data sheet · Load monitoring

Dimensions



Technical data sheet

Load monitoring · LCOS accessories

Insulated power bridge
AC/DC 500 V/16 A per phase
1-pin



Identification

Type LCOS-ZB-PB-01-00
Part No. [780961.001.2](#)

Product version

Datasheet version 00

Description

System Components Accessories
Description Power bridge 1-pole, insulated

General

Material PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage Max. AC/DC 500 V
Operating current Max. AC/DC 16 A/phase
System current max. AC/DC 64 A
Mounting Latches into position
On LCOS function carrier
22.5 mm or 35 mm

Contact material CuCrSiTi
Degree of protection IP20 (EN 60529)
Pole number 1
Weight/unit 0.02 kg
PU (units) 10

Technical data sheet

Load monitoring · LCOS accessories

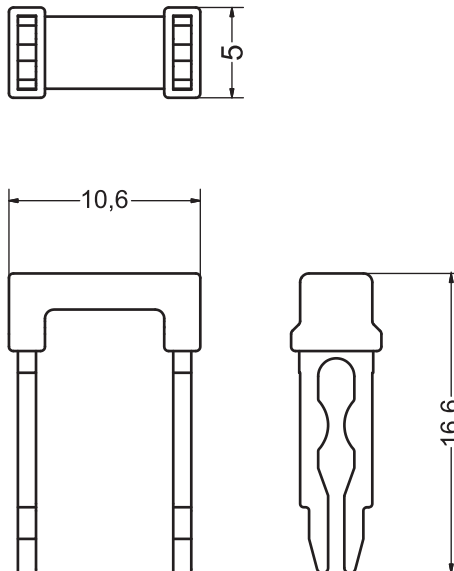
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

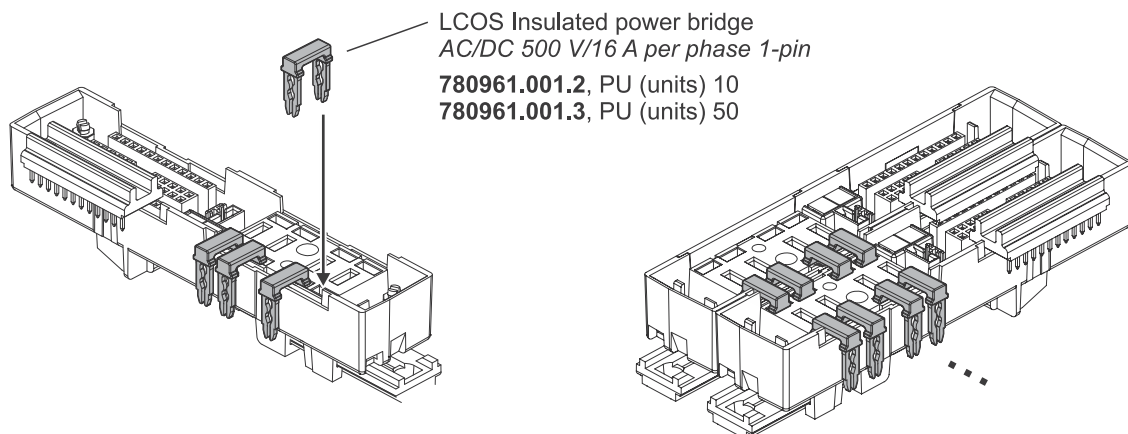
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

Dimensions



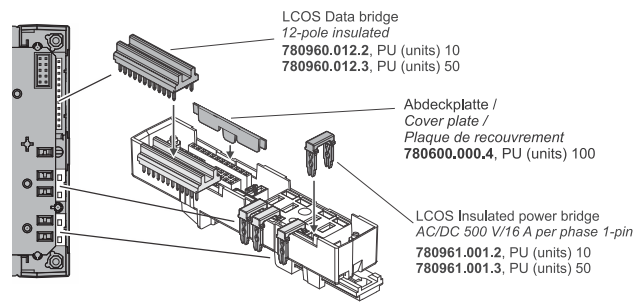
Use



Technical data sheet

Load monitoring · LCOS accessories

Use



Technical data sheet

Load monitoring · LCOS accessories

Insulated power bridge
AC/DC 500 V/16 A per phase
1-pin



Identification

Type	LCOS-ZB-PB-01-00
Part No.	780961.001.3

Product version

Datasheet version	00
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Description

System Components	Accessories
Description	Power bridge 1-pole, insulated

General

Material	PA6.6 (UL 94 V0, NNF I2, F2)
Operating voltage	Max. AC/DC 500 V
Operating current	Max. AC/DC 16 A/phase
System current max.	AC/DC 64 A
Mounting	Latches into position On LCOS function carrier 22.5 mm or 35 mm
Contact material	CuCrSiTi
Degree of protection	IP20 (EN 60529)
Pole number	1
Weight/unit	0.02 kg
PU (units)	50

Technical data sheet

Load monitoring · LCOS accessories

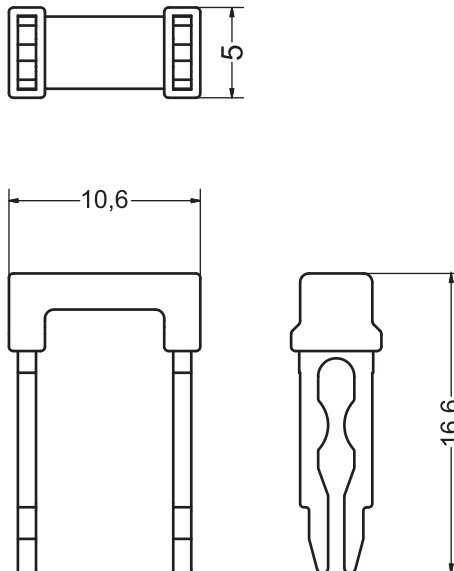
General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	5 – 95 %, no defrosting
Vibration resistance	4 g acc. to EN 60068-2-8
Shock resistance	15 g 11 ms acc. to IEC 60068-2-27

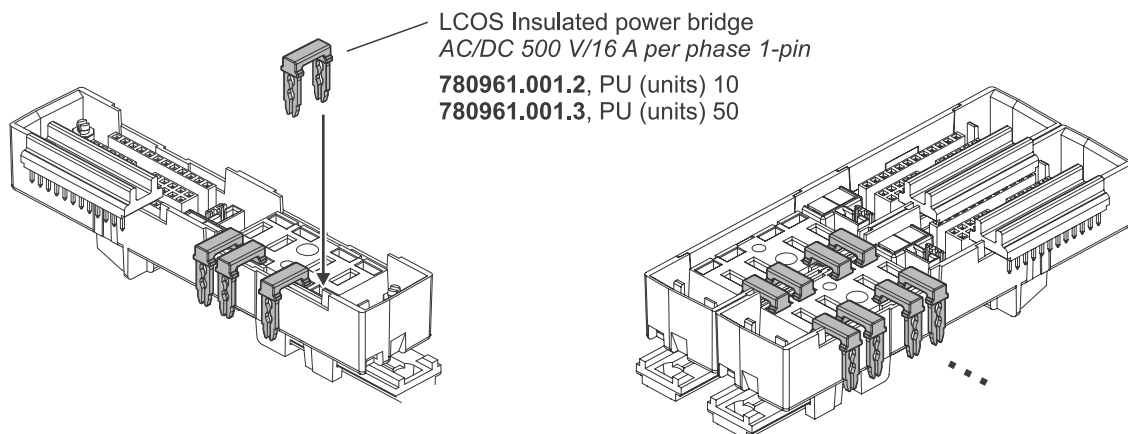
Certifications/Standards

Certifications	UR
Standards	IEC 60068-2-42, 43, 8, 27 EN 60064-1 EN 50175 EN 50124-1

Dimensions



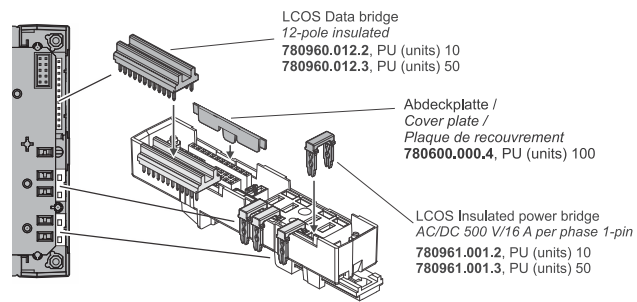
Use



Technical data sheet

Load monitoring · LCOS accessories

Use



Technical data sheet · Load monitoring

LCOS accessories



Identification		Type	LCOS-ZB-LPK-00
		Part-No.	780962.000.4
Description			
		LCOS PCB contact matches LCOS power module 1-pin	
Use/Application/Properties			
Description		PCB contact Power and PE, 10 A, 1-pole	
General			
Design		PCB contact	
Operating voltage		max. AC/DC 500 V	
Operating current		max. AC/DC 10 A	
Mounting		DIN rail mountable TS35 with interlock (EN 60715)	
Contact material		CuCrSiTi	
Pole number		1	
Weight		0.001 kg/piece	

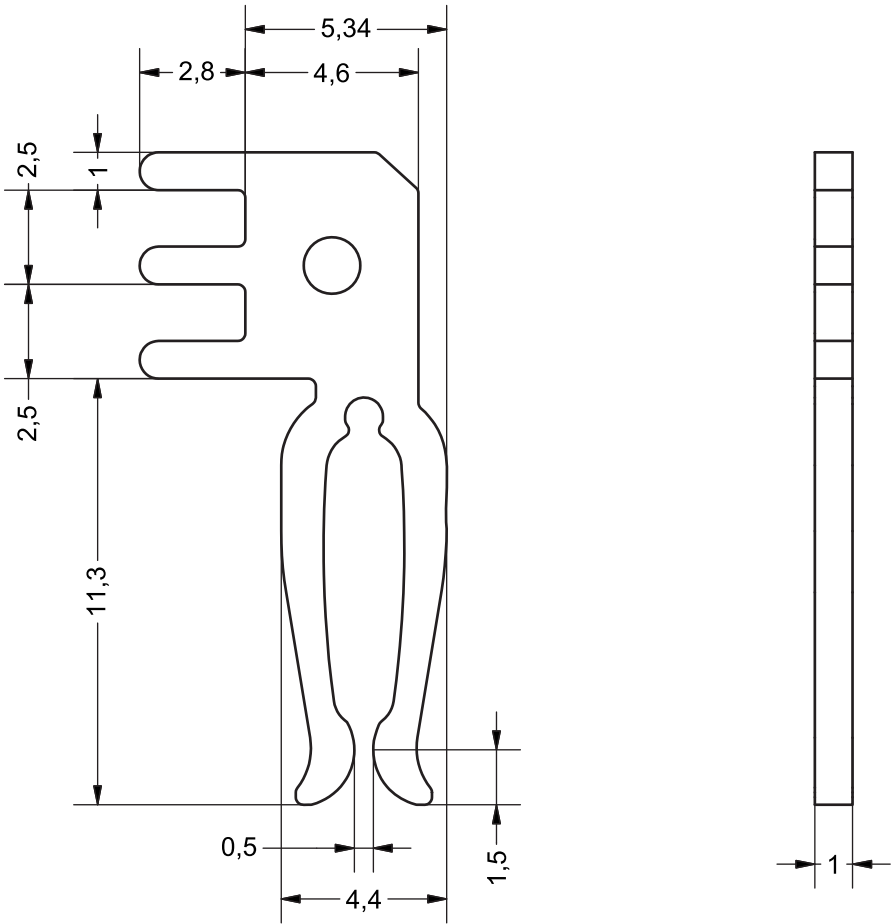
Technical data sheet · Load monitoring

Standards	IEC 60068-2-42, 43, 8, 27
	EN 60064-1
	EN 50175
	EN 50124-1
PU	100 piece

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
Storage temperature range	-40 °C ... +85 °C

Dimensions



Technical data sheet

Load monitoring · LCOS accessories

LCOS PCB contact
matches LCOS power module
1-pin



Identification

Type	LCOS-ZB-LPK-00
Part No.	780962.000.5

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	PCB contact Power and PE, 10 A, 1-pole

General

Design	PCB contact
Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 10 A
Mounting	DIN rail mountable TS35 with interlock (EN 60715)
Contact material	CuCrSiTi
Pole number	1
Weight/unit	0.001 kg
PU (units)	500

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

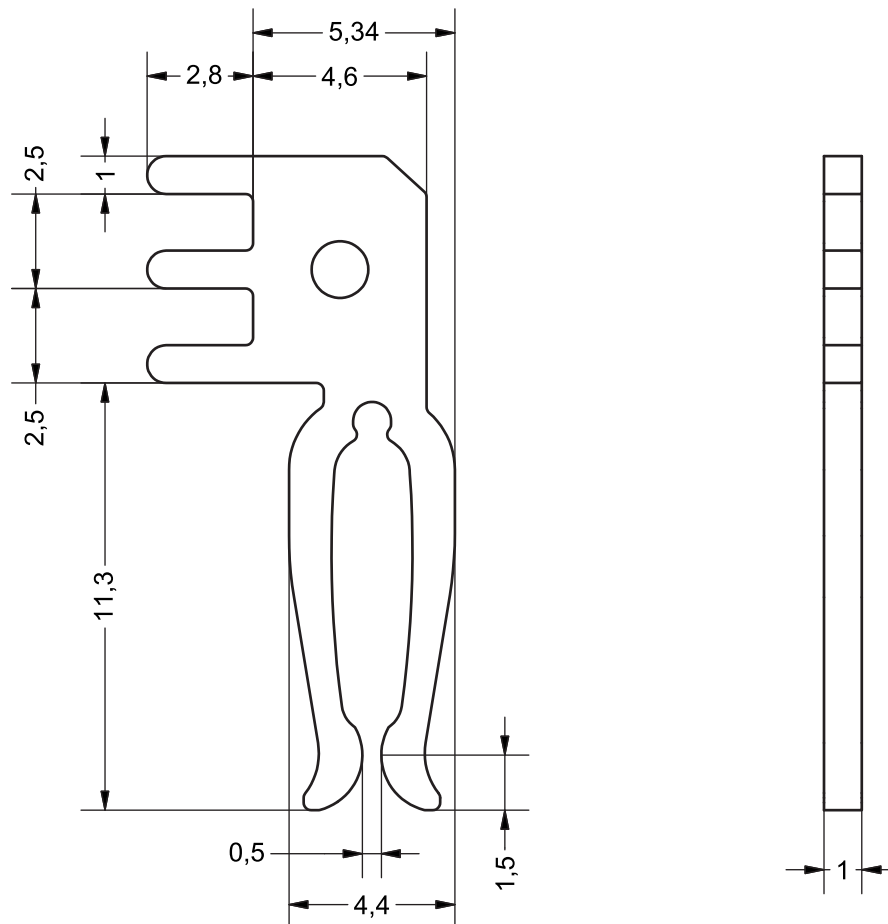
Load monitoring · LCOS accessories

Storage temperature range -40 °C ... +85 °C

Certifications/Standards

Standards IEC 60068-2-42, 43, 8, 27
EN 60064-1
EN 50175
EN 50124-1

Dimensions



Technical data sheet

Load monitoring · LCOS accessories

LCOS PCB contact
matches LCOS power module
1-pin



Identification

Type	LCOS-ZB-LPK-00
Part No.	780962.000.6

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	PCB contact Power and PE, 10 A, 1-pole

General

Design	PCB contact
Operating voltage	max. AC/DC 500 V
Operating current	max. AC/DC 10 A
Mounting	DIN rail mountable TS35 with interlock (EN 60715)
Contact material	CuCrSiTi
Pole number	1
Weight/unit	0.001 kg
PU (units)	1000

General ambient conditions

Operation temperature range	-40 °C ... +85 °C
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Technical data sheet

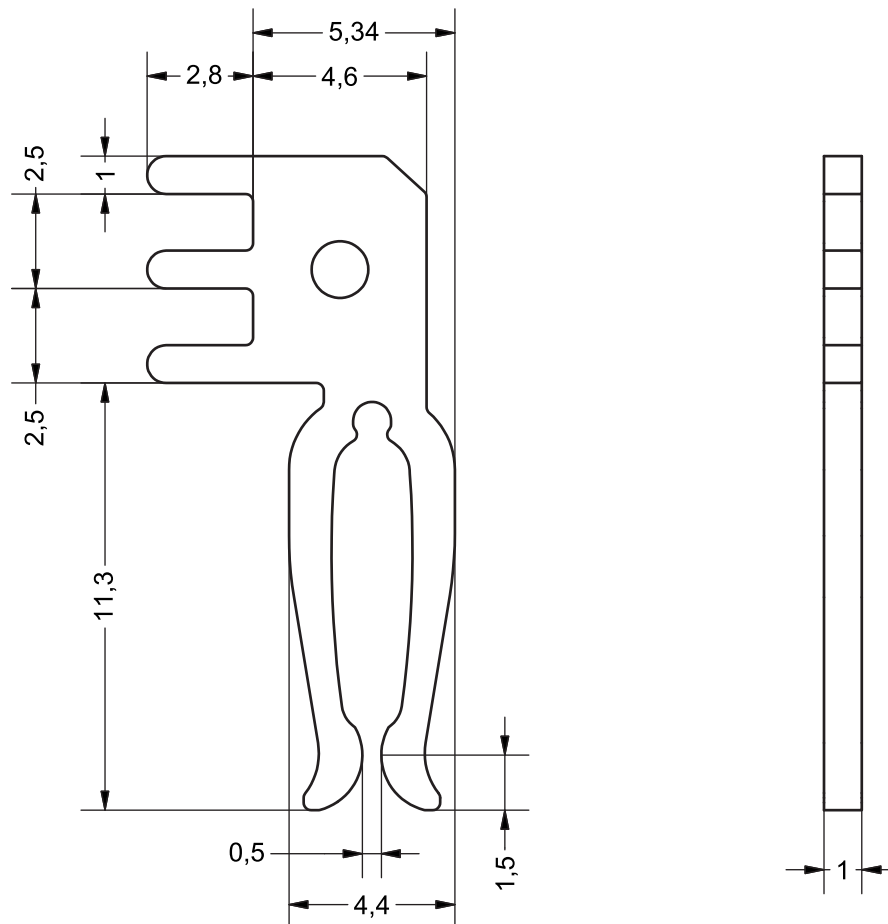
Load monitoring · LCOS accessories

Storage temperature range -40 °C ... +85 °C

Certifications/Standards

Standards IEC 60068-2-42, 43, 8, 27
EN 60064-1
EN 50175
EN 50124-1

Dimensions



Laboratory printed circuit board



Identification

Type	LCOS-ZB-EB-01
Part No.	780963.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Laboratory printed circuit board (PCB) FR4, 1.5 mm

General

Mounting	Can be mounted in 22.5 mm or 35 mm LCOS functional housings.
PU (units)	10

Technical data sheet

Load monitoring · LCOS accessories

Labeling system



Identification

Type	LCOS-ZB-BZS-white-00
Part No.	780981.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Terminal marker 5×5 mm, frame with 200 pieces, printable (Dekafix compatible)

General

Material	PA 6.6 (UL 94 V2)
Color	white
Design	200 tabs
Housing material	PA 6.6
Mounting	any plug-in
Installation position	Vertical
MTBF	690000 h
Dimensions	5 × 5 mm
Weight/unit	0.01 kg
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +100 °C
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Technical data sheet

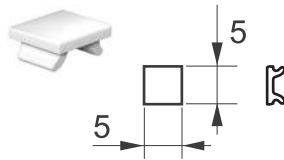
Load monitoring · LCOS accessories

Storage temperature range -40 °C ... +100 °C

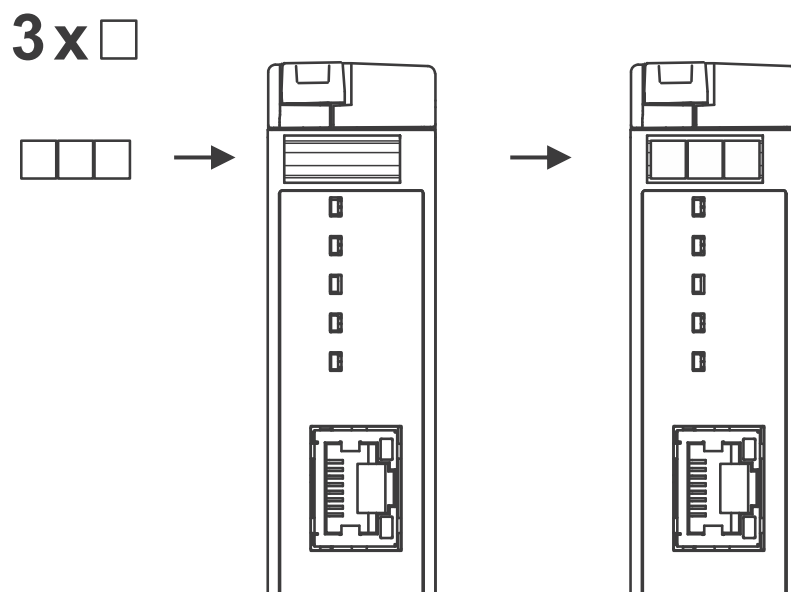
Certifications/Standards

Conformity RoHS
Certifications UL 94

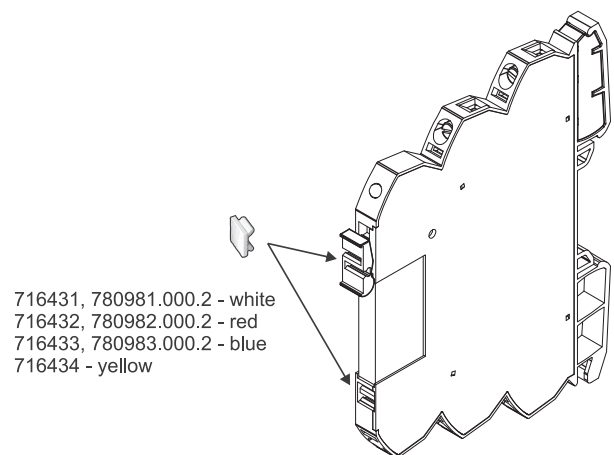
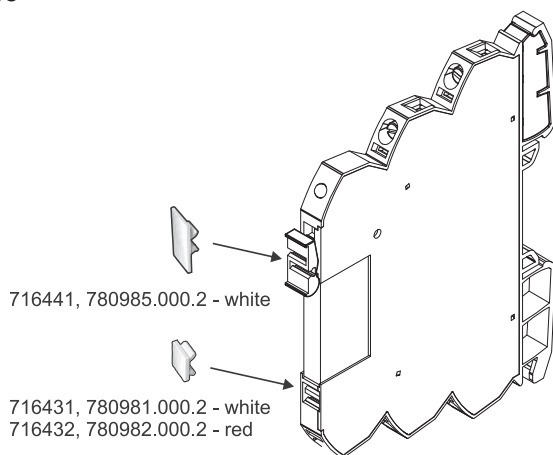
Dimensions



Use



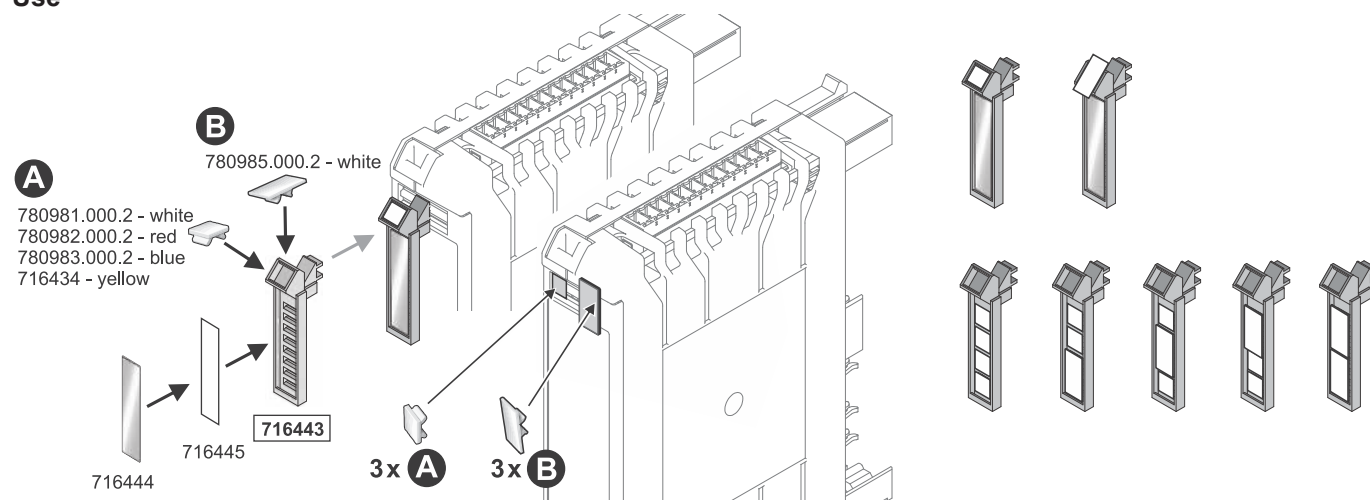
Use



Technical data sheet

Load monitoring · LCOS accessories

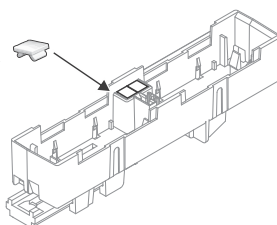
Use



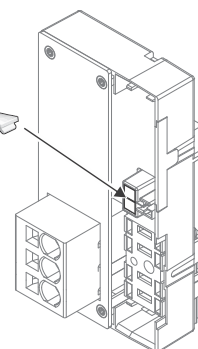
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

2x



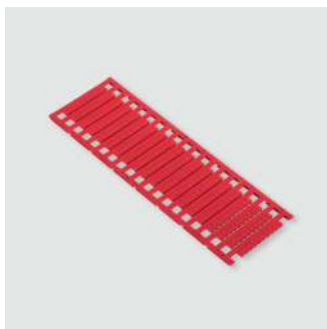
2x



Technical data sheet

Load monitoring · LCOS accessories

Labeling system



Identification

Type	LCOS-ZB-BZS-red-00
Part No.	780982.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Terminal marker 5×5 mm, frame with 200 pieces, printable (Dekafix compatible)

General

Material	PA 6.6 (UL 94 V2)
Color	red
Design	200 tabs
Housing material	PA 6.6
Mounting	any plug-in
Installation position	Vertical
MTBF	690000 h
Dimensions	5 × 5 mm
Weight/unit	0.01 kg
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +100 °C
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Technical data sheet

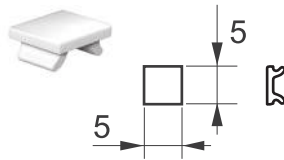
Load monitoring · LCOS accessories

Storage temperature range -40 °C ... +100 °C

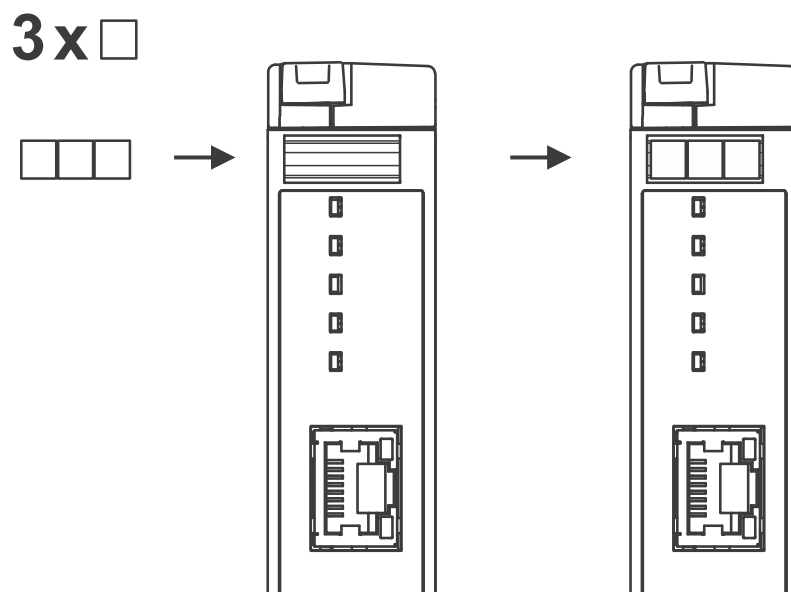
Certifications/Standards

Conformity RoHS
Certifications UL 94

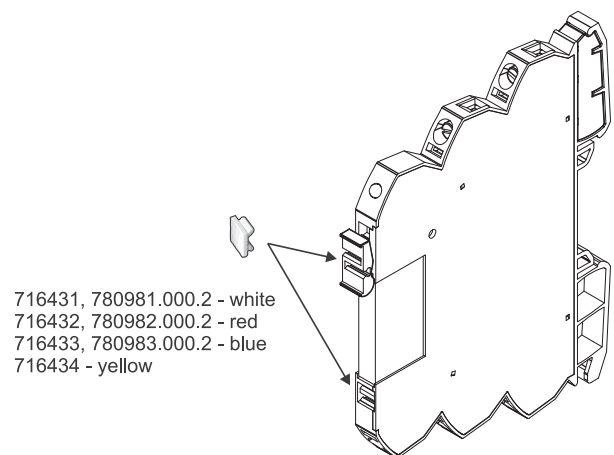
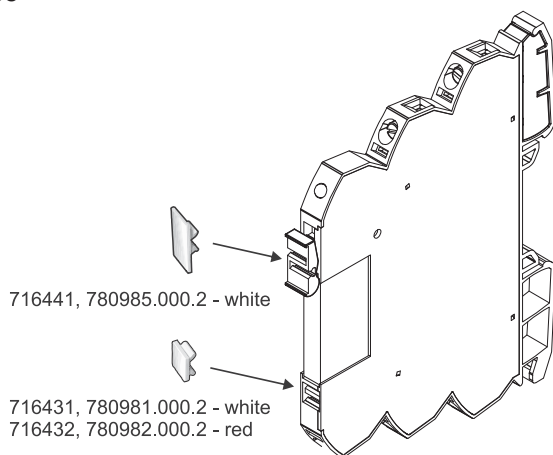
Dimensions



Use



Use



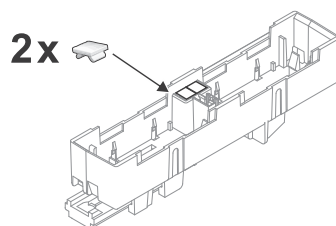
Technical data sheet

Load monitoring · LCOS accessories

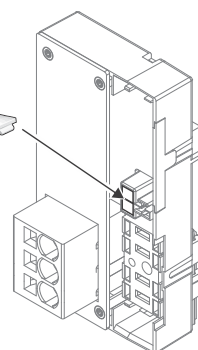
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

2x



2x



Use

A

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

B

780985.000.2 - white

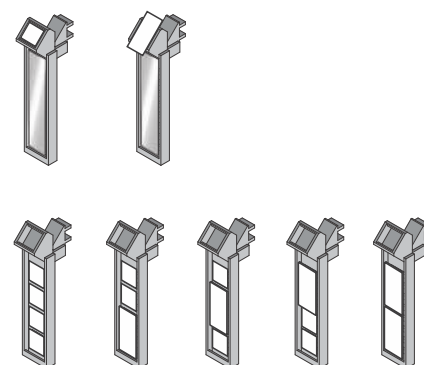
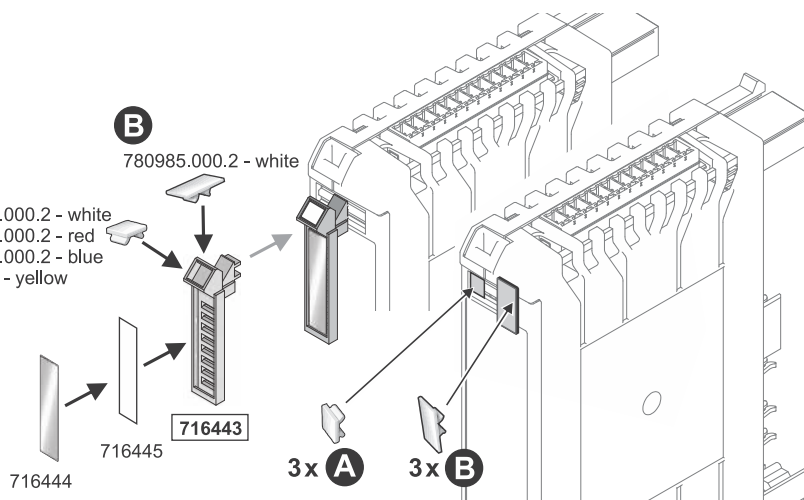
716444

716445

716443

3x **A**

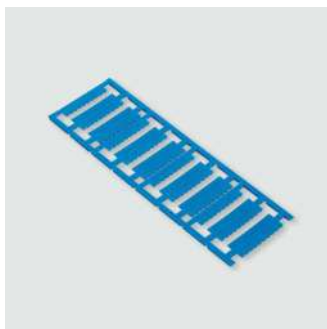
3x **B**



Technical data sheet

Load monitoring · LCOS accessories

Labeling system



Identification

Type	LCOS-ZB-BZS-blue-00
Part No.	780983.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Terminal marker 5×5 mm, frame with 200 pieces, printable (Dekafix compatible)

General

Material	PA 6.6 (UL 94 V2)
Color	blue
Design	200 tabs
Mounting	any plug-in
Installation position	Vertical
MTBF	690000 h
Dimensions	5 × 5 mm
Weight/unit	0.01 kg
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +100 °C
Storage temperature range	-40 °C ... +100 °C

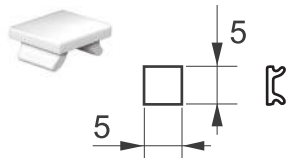
Technical data sheet

Load monitoring · LCOS accessories

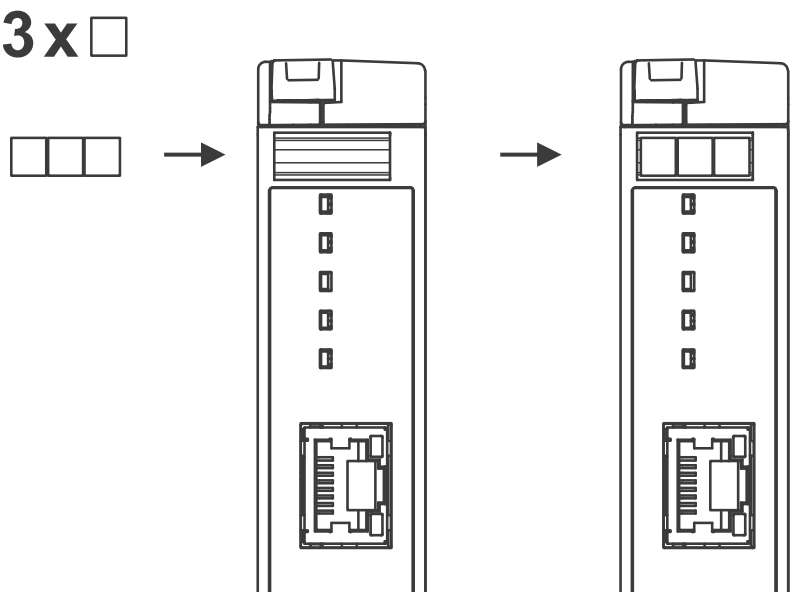
Certifications/Standards

Conformity	RoHS
Certifications	UL 94

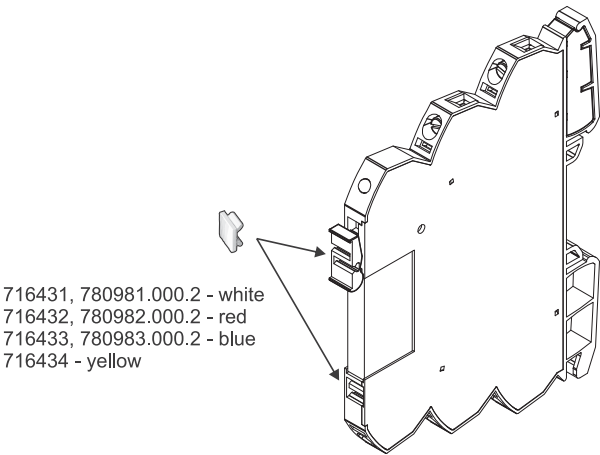
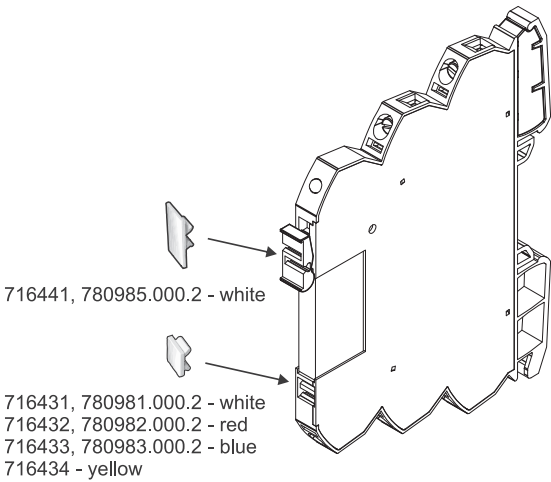
Dimensions



Use



Use



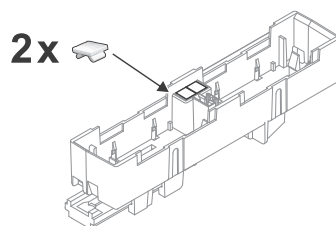
Technical data sheet

Load monitoring · LCOS accessories

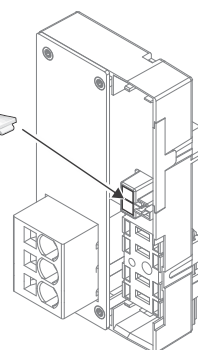
Use

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

2x



2x



Use

A

780981.000.2 - white
780982.000.2 - red
780983.000.2 - blue
716434 - yellow

B

780985.000.2 - white

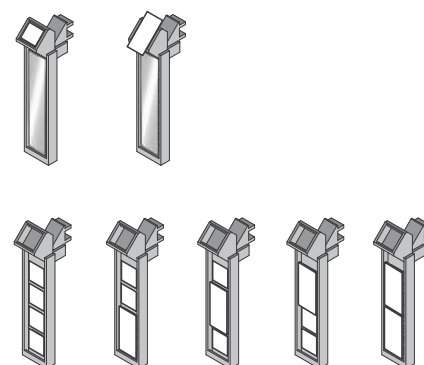
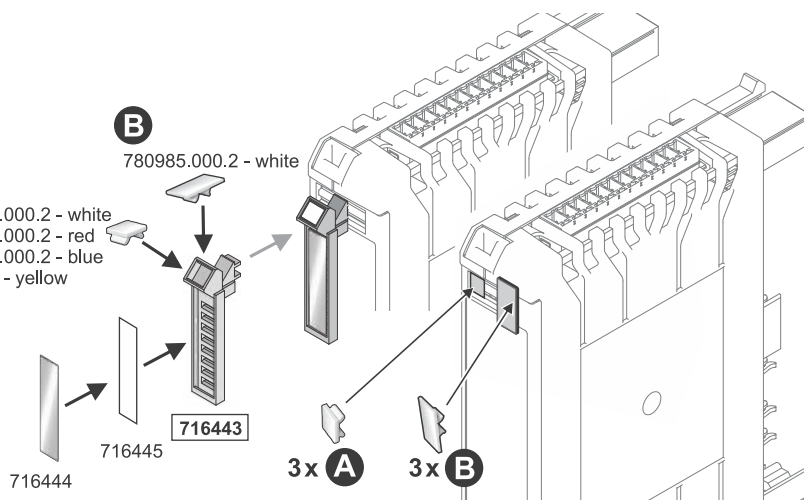
716444

716445

716443

3x **A**

3x **B**



Technical data sheet

Load monitoring · LCOS accessories

Labeling system



Identification

Type	LCOS-ZB-BZS-white-12/6
Part No.	780985.000.2

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Terminal marker 6×12 mm, frame with 120 pieces, printable (MultiCard format, for MultiCard printer systems)

General

Material	PA 6.6 (UL 94 V2)
Color	white
Design	120 tabs
Mounting	any plug-in
Installation position	Vertical
MTBF	690000 h
Dimensions	12 × 6mm
Weight/unit	0.01 kg
PU (units)	10

General ambient conditions

Operation temperature range	-40 °C ... +100 °C
Storage temperature range	-40 °C ... +100 °C

Technical data sheet

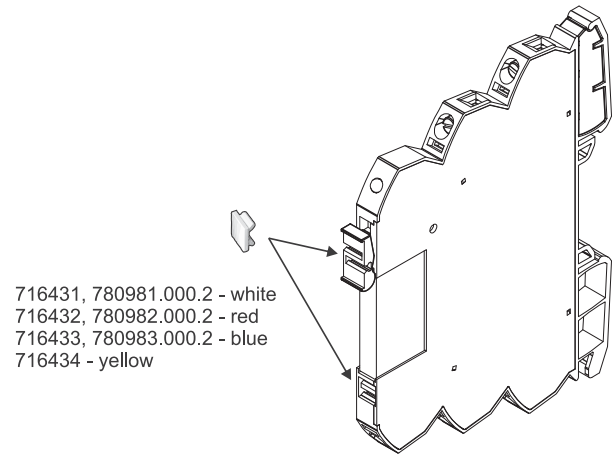
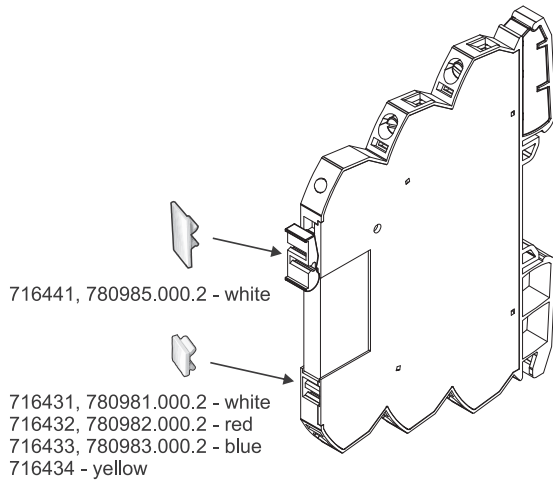
Load monitoring · LCOS accessories

Certifications/Standards

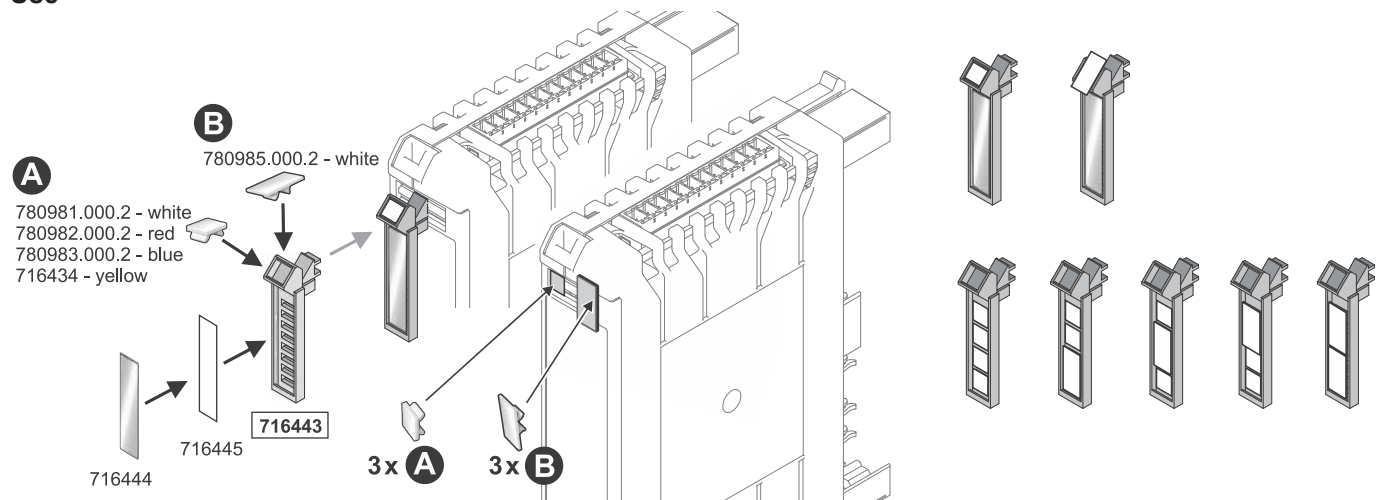
Conformity
Certifications

RoHS
UL 94

Use



Use



Coding pins



Identification

Type	LCOS-ZB-Codier
Part No.	780990.000.3

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Coding pins for LCOS housing

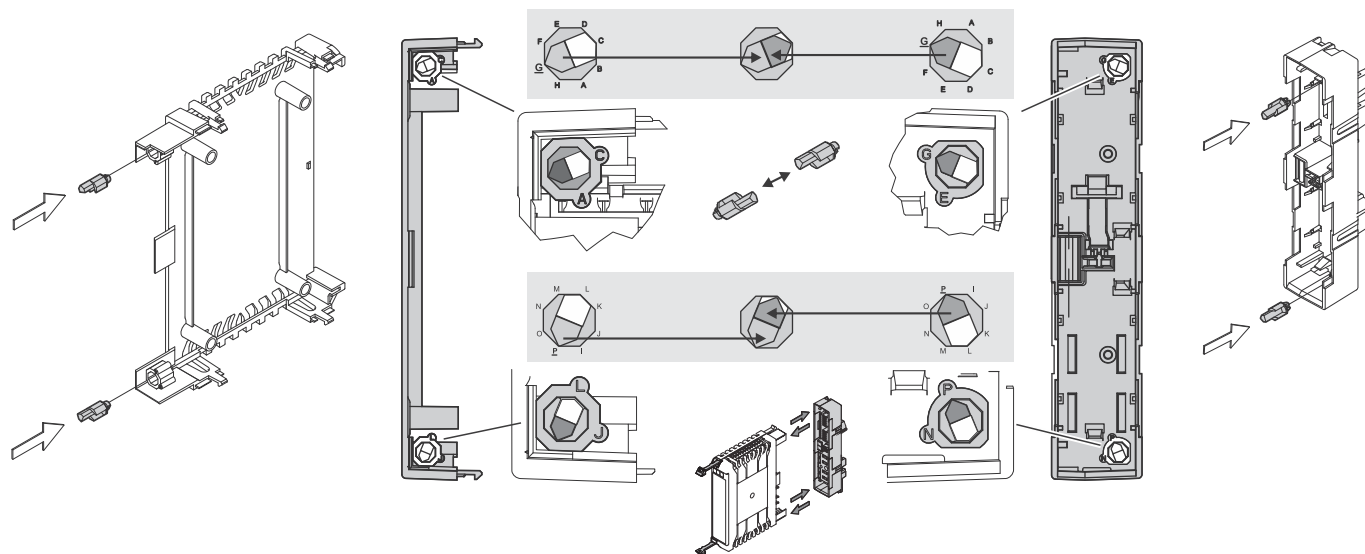
General

Mounting	Coding Pluggable
PU (units)	50

Technical data sheet

Load monitoring · LCOS accessories

Use



Attachment screws data/power module



Identification

Type	LCOS-ZB-Schraube-00
Part No.	780991.000.4

Product version

Datasheet version	01
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Description

System Components	Accessories
Description	Attachment screws data/power module

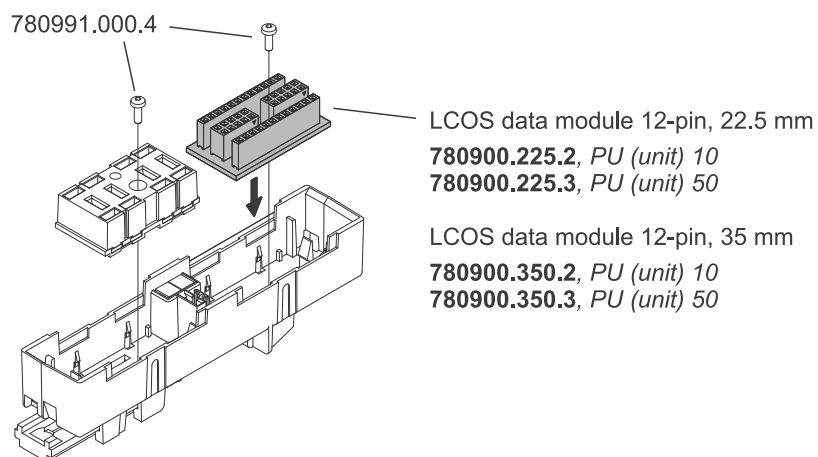
General

Mounting	Screw mounting On LCOS function carrier Screwed
PU (units)	100

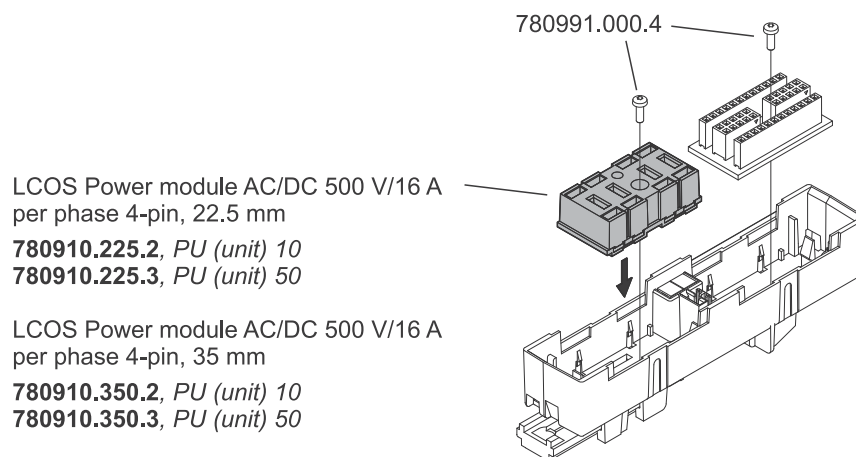
Technical data sheet

Load monitoring · LCOS accessories

Use



Use



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