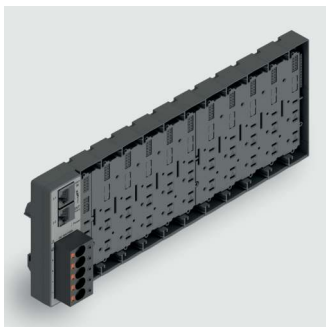


Technical data sheet

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	04
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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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United Kingdom: LÜTZE Ltd.

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Sandy Way, Amington • GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0
www.lutze.com • sales.gb@lutze.co.uk

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Postfach 12 24 (PLZ 71366) • Bruckwiesenstraße 17-19 • D-71384 Weinstadt
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29.01.2025 • Subject to technical modification

Part No. [780510.011.1](#) • Datasheet version: 04

page 1 of 5

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	0.426 kg
PU (units)	1

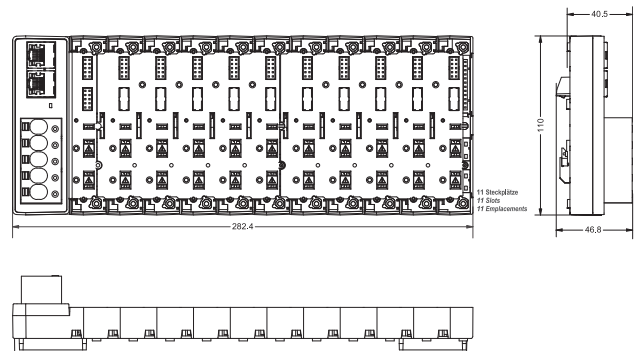
General ambient conditions

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

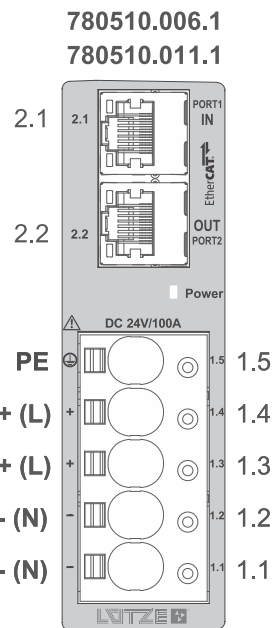
Certifications/Standards

Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cULus (E170585)
Standards	DNV-CG-0339:2021 EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019 2014/30/EU (EMCD) UL 61010-1:2019 UL 61010-2-201:2018 CFR-47-2016 Part 15 Subpart B CAN/CSA-C22.2 No. 61010-1-12:2018 CAN/CSA-C22.2 No. 61010-2-201:2018

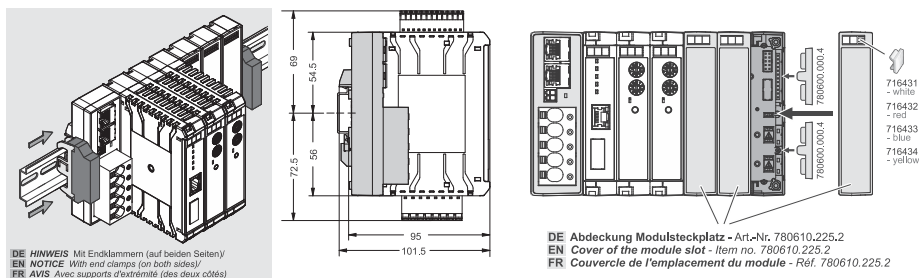
Dimensions



PIN assignment



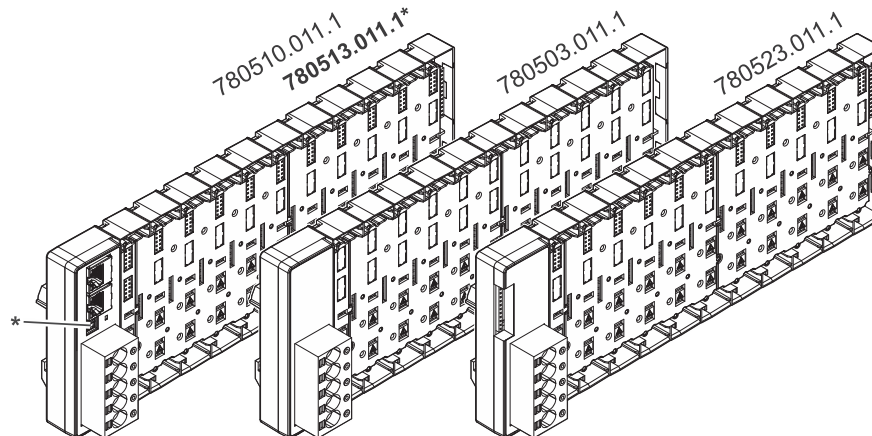
Use



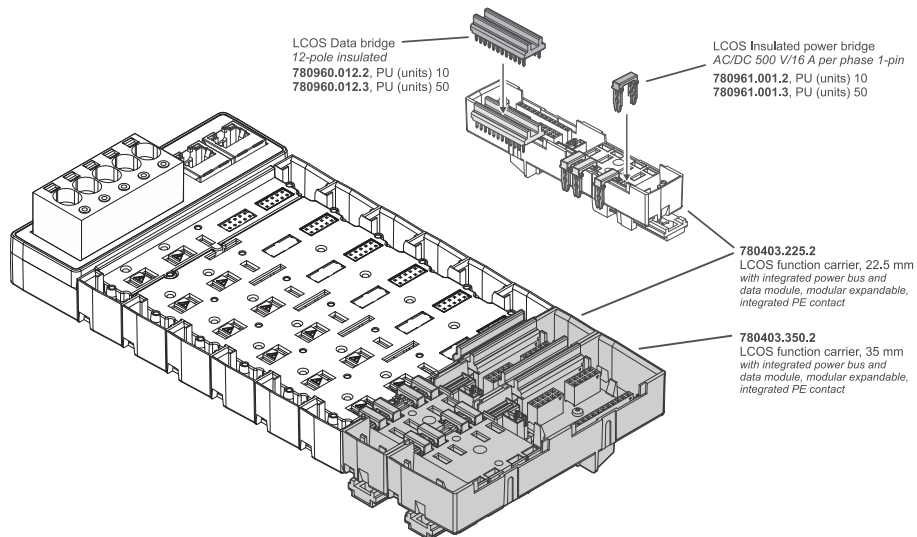
Technical data sheet

Load monitoring · LCOS accessories

Use



Use



Mounting diagram

DE Montage – Hutschiene

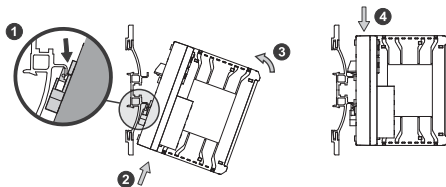
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail

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

FR Montage – Rail profilé chapeau

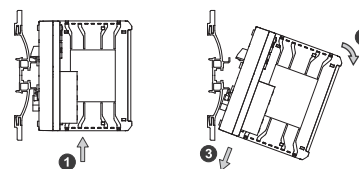
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene

EN Dismounting – DIN Rail

FR Démontage – Rail profilé chapeau

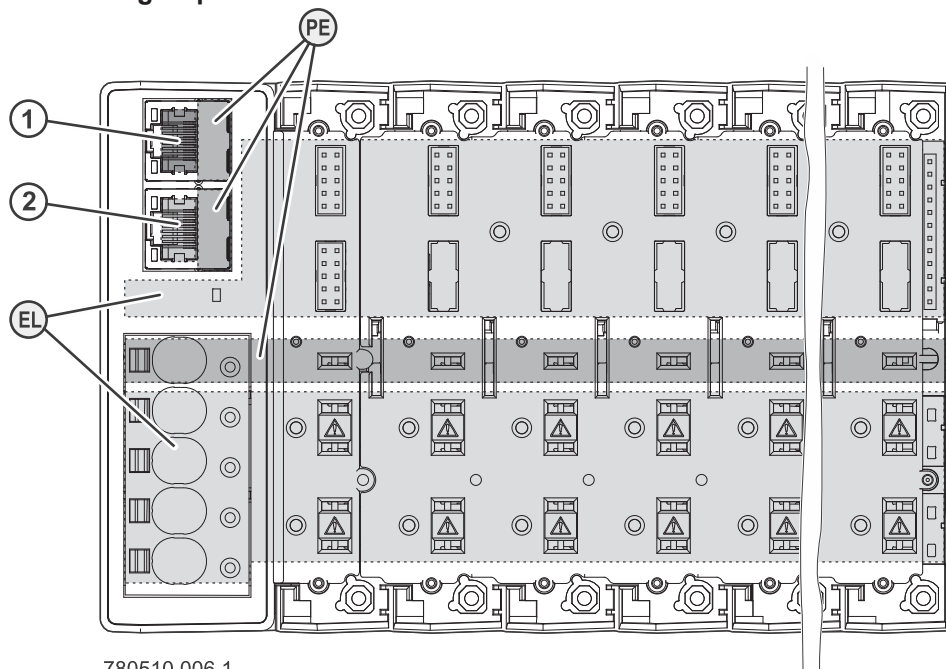


Mounting diagram

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



780510.006.1
780510.011.1

1.
DE Potentialgruppen
EN Potential groups
FR Groupes de potentiel

(PE): PE
(EL): Data-Bus+Power-Bus
(1): ETH1
(2): ETH2

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
Basisisolation/
Basic insulation/
Isolation de base

3.2
Verstärkte Isolierung/
Reinforced insulation/
Isolation renforcée

3.3
Funktionsisolation/
Functional insulation/
Isolation fonctionnelle

DC 2000 V:
1 + 2 ⇔ PE + EL
1 ⇔ 2

AC 500 V:
PE ⇔ EL