

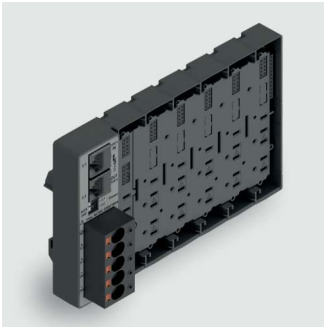
Technical data sheet

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	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 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

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Part No. [780513.006.1](#) • Datasheet version: 04

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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	0.281 kg
PU (units)	1

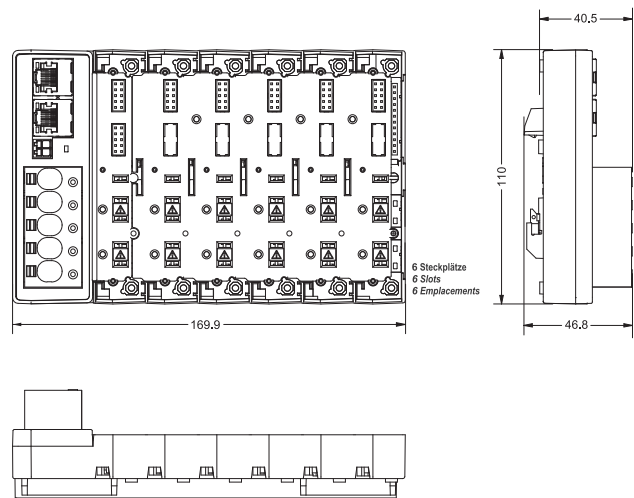
General ambient conditions

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

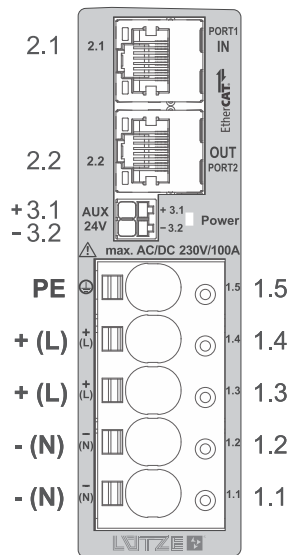
Conformity	CE UKCA FCC
Certifications	DNV (TAA00002SY) cULus (E170585)
Standards	DNV-CG-0339:2021 EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019 2014/30/EU (EMCD) UL 61010-1:2019 UL 61010-2-201:2018 CFR-47-2016 Part 15 Subpart B CAN/CSA-C22.2 No. 61010-1-12:2018 CAN/CSA-C22.2 No. 61010-2-201:2018

Dimensions

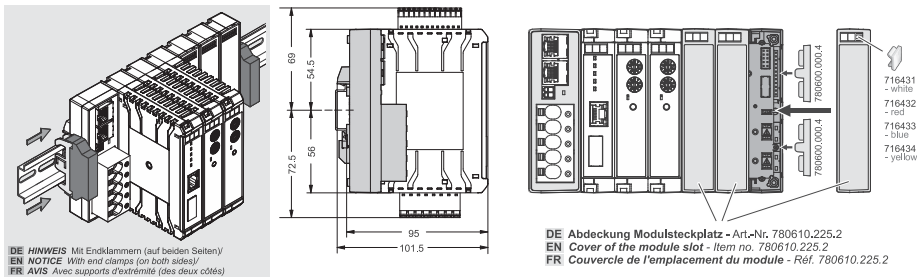


PIN assignment

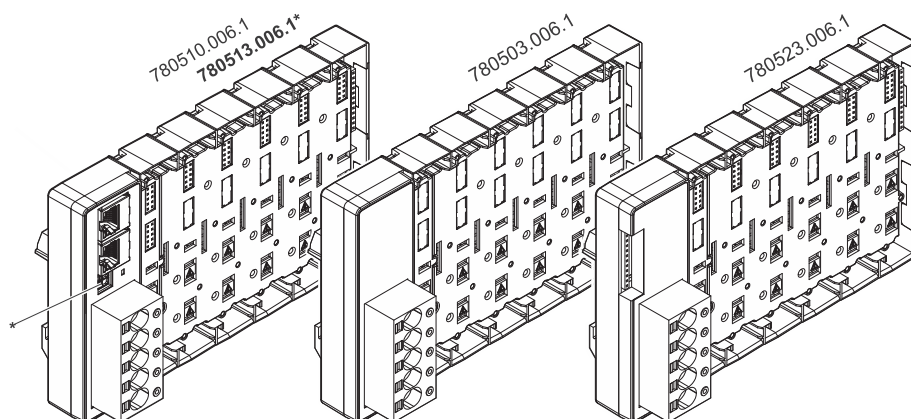
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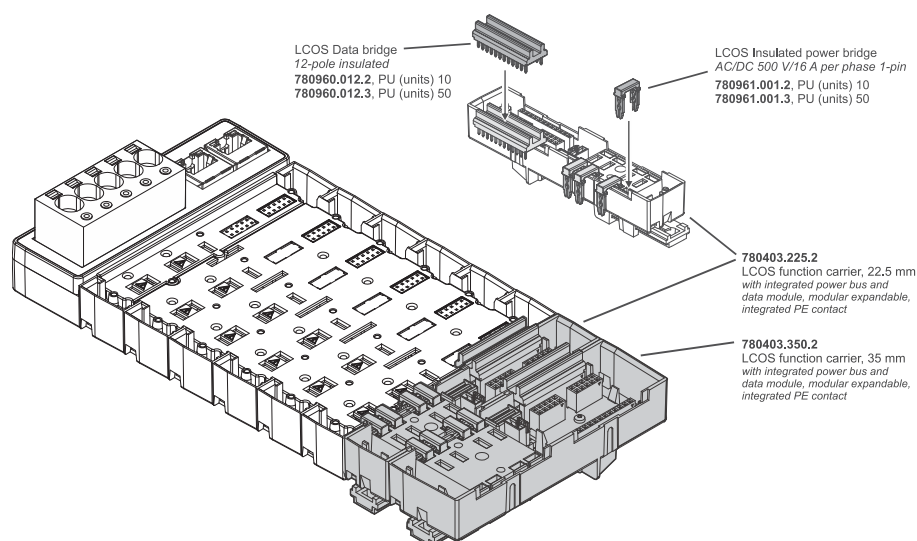
Use



Use



Use



Mounting diagram

DE Montage – Hutschiene

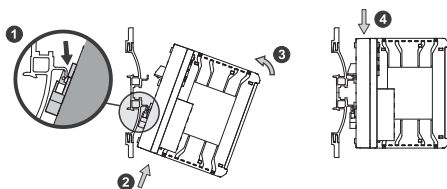
Vorgeschriebene Standard Einbaulage: vertikal, Abstand zu benachbarten Geräten (über und unter dem Gehäuse): 30mm

EN Mounting – DIN Rail

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

FR Montage – Rail profilé chapeau

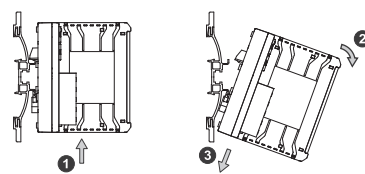
Position de montage requise par défaut: verticale, distance par rapport aux appareils environnants (au-dessus et en dessous du boîtier): 30mm



DE Demontage – Hutschiene

EN Dismounting – DIN Rail

FR Démontage – Rail profilé chapeau

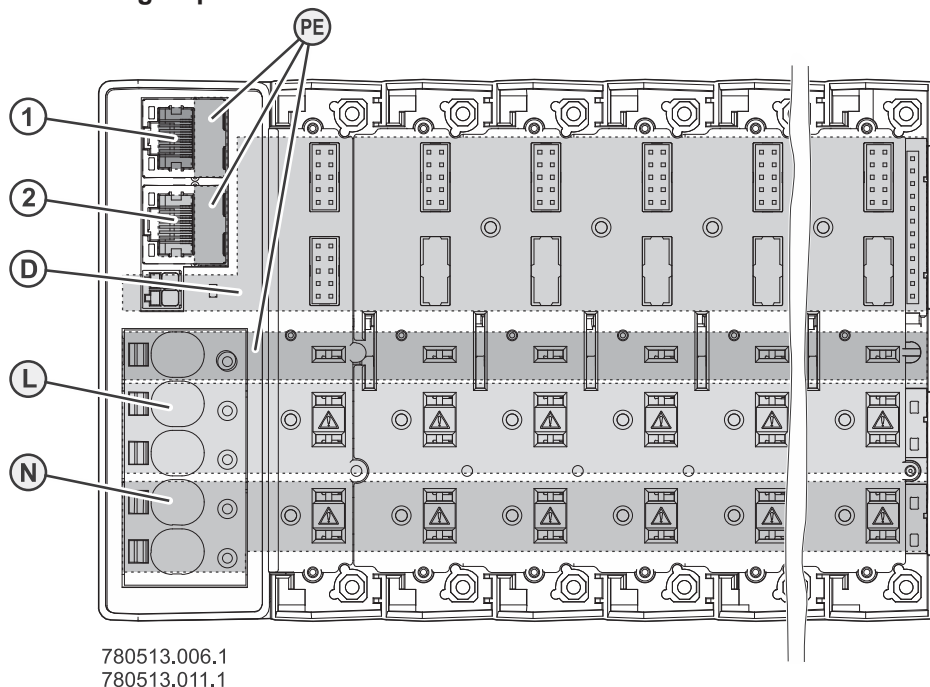


Mounting diagram

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
mehrdrahtig/ 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
mehrdrahtig/ 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

(PE): PE

(1): ETH1

(2): ETH2

(D): Data-Bus

(L): L („+“)

(N): N („-“)

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

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

- 3.2
Verstärkte Isolierung/
Reinforced insulation/
Isolation renforcée

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

- 3.3
Funktionsisolierung/
Functional insulation/
Isolation fonctionnelle

DC 2000 V:
1 + 2 ⇔ PE + D
1 ⇔ 2
AC 500 V:
PE ⇔ D