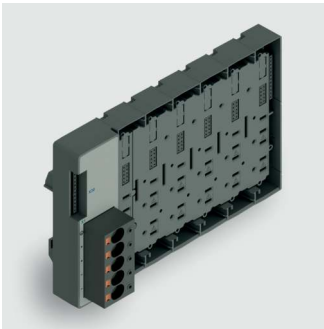


Technical data sheet

Compact extension module



Identification

Type	LUNA EW-006
Part No.	819603.006

Product version

Hardware revision	A
Datasheet version	01

Use/Application/Properties

Description	Compact extension module with 6 slots, for connecting up to 6 additional LUNA modules. For use on rail vehicles.
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Bus interface

	Local bus
Bus system	L-Bus ²
Connection type, incoming bus	X30: Socket connector (data bridge)
Connection type, incoming bus	Socket connector 10-pole, bottom
Connection type, continuing bus	X31: Socket connector (data bridge)

Technical data

Rated voltage U_N	DC 24 V
Rated current	Max. DC 100 A (max. DC 50 A per pin)
Storage temperature range	-40 °C ... +85 °C
Connection type	Push-In 5 × Push-In, min 0.5 mm ² , max. 16 mm ² AWG 18 – 4
Strip length	18 mm
Screwdriver	4,0 × 0,8 mm

General

Dimensions (w × h × d)	170.0 mm × 110.0 mm × 46.8 mm
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Technical data sheet

Weight/unit	0.272 kg
Housing material	PA 6.6
Color of the housing	Basalt grey
Mounting	DIN rail mounting
Installation place	1: closed electrical operating areas 2: driver's cabin and passenger area
Installation position	Installation position: Any position or angle possible Installation space: Bottom: 30 mm Top: 30 mm Right/left: 0 mm DIN rail spacing: 150 mm (note the bending radius of the cables!)

Electrical isolation

Potential groups	See diagram "Potential groups"
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Environmental service conditions

Altitude	2000 m
Operating temperature class	OT4: -40 °C ... +70 °C
Switch-on extended Operating temperature class	ST1+ST2: OTx + 15 °C
Temperature variation class	H1:no requirements
Shock/Vibration	Category 1, class B
Useful life class	L4: 20 years
Degree of pollution	PD2
Over voltage category	OV2
Socket and edge connector	K2: Sockets for ICs and/or edge connectors are not used
Protective coating class	PC2: lacquered on both sides
Degree of protection	IP20

Failure Rate Prediction (MTBF)

Standards	Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500
Failure rate at +45 °C	283 fit
Failure rate at +45 °C	3530949 h 1 fit equals one failure per 10 ⁹ component hours The indicated temperature is the mean component ambient temperature.
Comments	The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances. Continuous operation 8760 h per year.

Technical data sheet

Standards/Certifications

Standards

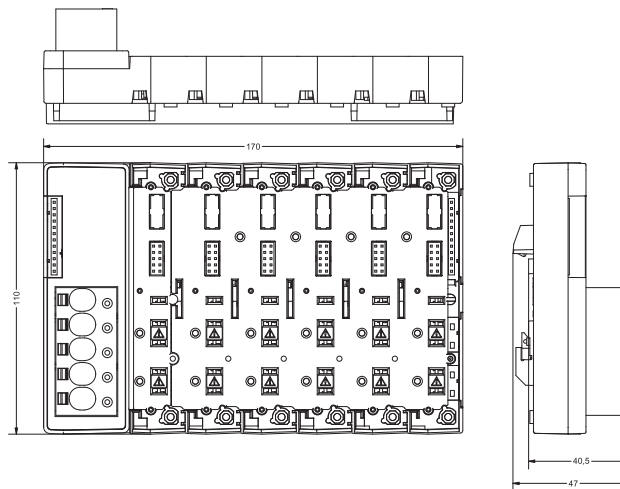
EN 50155:2021: Railway applications – Rolling stock – Electronic equipment
EN 50121-3-2:2016+A1:2019: Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus
EN 50124-1:2017: Railway applications – Insulation coordination – Part 1: Basic requirements – Clearances and creepage distances for all electrical and electronic equipment
EN 61373:1999: Railway applications – Rolling stock equipment – Shock and vibration tests
EN 61373:2010: Railway applications – Rolling stock equipment – Shock and vibration tests
EN 61373/AC:2017: Railway applications – Rolling stock equipment – Shock and vibration tests
Regulation No. EMC 06: Technical Rules on Electromagnetic Compatibility - Verification of radio compatibility of rail vehicles with railroad radio services
EN 45545-2:2020+A1:2023 Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components

Equipment/Spare parts

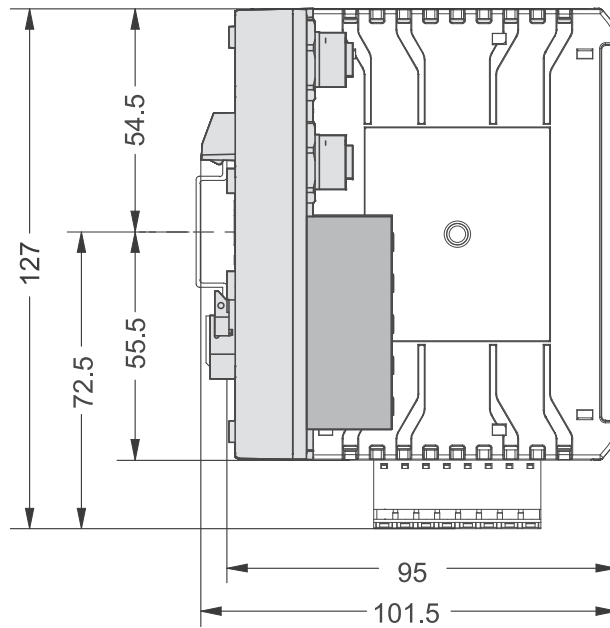
Accessories

Optional accessories
Cover of the module slot (780610.225.2)

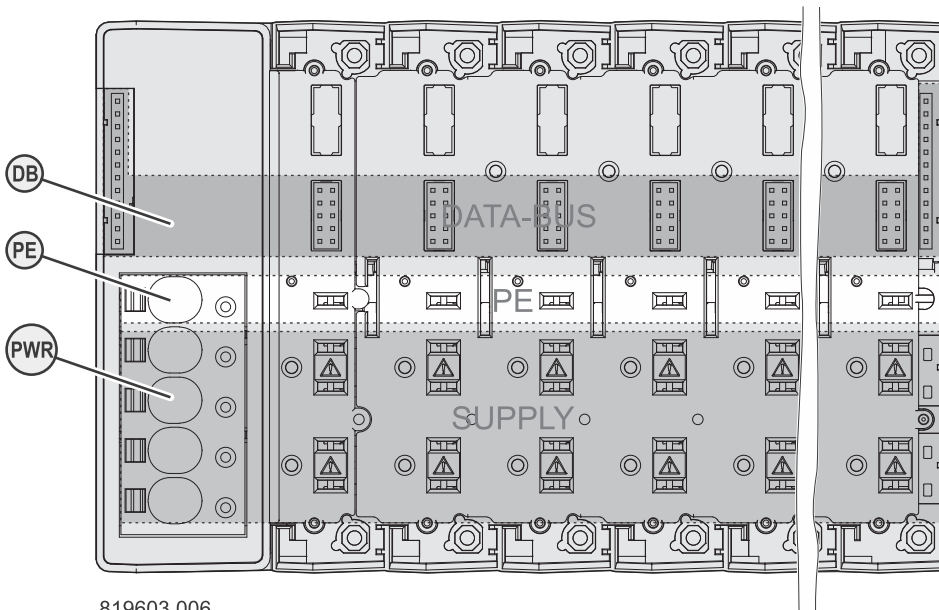
Dimensions



Dimensions



Potential groups



<p>1. DE Potentialgruppen EN Potential groups FR Groupes de potentiel</p> <p>(DB): Data-Bus (PE): PE (PWR): Supply</p> <p>2. DE Kapazitive Kopplung EN Capacitive coupling FR Couplage capacitif</p>	<p>3. DE Trennspannung/ EN Isolating voltage/ FR Tension d'isolement</p> <p>3.1 Basisisolierung/ Basic insulation/ Isolation de base</p> <p>–</p> <p>3.2 Verstärkte Isolierung/ Reinforced insulation/ Isolation renforcée</p> <p>AC 1500 V: PWR ↔ DB+PE</p> <p>3.3 Funktionsisolierung/ Functional insulation/ Isolation fonctionnelle</p> <p>AC 500 V: DB ↔ PE</p>
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819603.006
 819603.011