

Technical data sheet

IO-Link Gateway for LOCC-Box-Net · LOCC-Box-GWIO 7-6455

Gateway for LOCC-Box-Net versions

Input: LOCCbus (LIN)

Output: IO-Link



Identification

Type	LOCC-Box-GWIO 7-6455
Part No.	716455

Product version

Hardware revision	B
Software version	1.2
Datasheet version	06

Input

Bus system	LOCCbus, base LIN
Access method	Single-Master – Multiple Slave max. 15 functional assemblies
Bus technology	Line
Physical level	1-wire
Data rate	8 Bit + fixed parity (Bit 9)
Transfer protocol	Modified multi-drop
Reverse voltage protection	Yes

Output

Bus system	IO-Link
Transfer rate	38.4 kBaud
Interface	IO-Link Device

General

Rated voltage U_N	DC 12/24 V
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United Kingdom: LÜTZE Ltd.

Unit 3, Sandy Hill Park
Sandy Way, Amington · GB-Tamworth, Staffs B77 4DU
Tel. +44 (0)1827 31333-0
www.lutze.com · sales.gb@lutze.co.uk

Germany: Friedrich Lütze GmbH

Postfach 12 24 (PLZ 71366) · Bruckwiesenstraße 17-19 · D-71384 Weinstadt
Tel. +49 (0)7151 6053-0
www.luetze.de · info@luetze.de

29.10.2024 · Subject to technical modification

Part No. [716455](#) · Datasheet version: 06

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Operation voltage range	DC 10–30 V
Rated current	80 mA @ 24 V
Dimensions (w × h × d)	8.1 mm × 107.4 mm × 116.0 mm
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	Any
Degree of protection	IP20 (only as complete system with supply terminal and end block)
Connection type	Push-In spring connection 0.25 mm ² – 2.5 mm ² AWG 24 – AWG 14
Weight/unit	0.105 kg
PU (units)	1

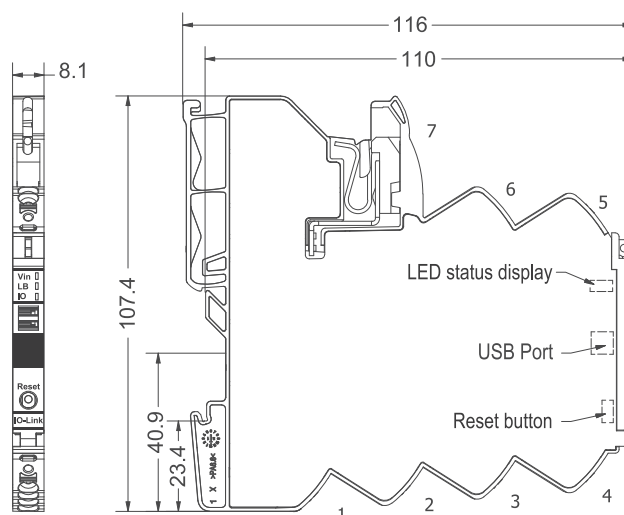
General ambient conditions

Operation temperature range	-25 °C ... +50 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	max. 90 % not condensing
Vibration resistance	1 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

Certifications/Standards

Conformity	CE UKCA FCC
Certifications	cULus (E170585)
Standards	EN 61000-6-2 EN 61000-6-4 EN 61010-1 EN IEC 61010-2-201 UL 61010-1 UL 61010-2-201 CFR 47 Part 15 Subpart B

Dimensions



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PIN assignment



PIN Signal

1	IO Link (L-)
2	IO Link (C/Q)
3	IO Link (L+)
4	Communication (LIN)
5	0V GND
6	DC + 24V
7	DC + 24V

Use

DE Installation EN Installation FR Installation

DE 1. Standard Anwendung mit Stromschiene

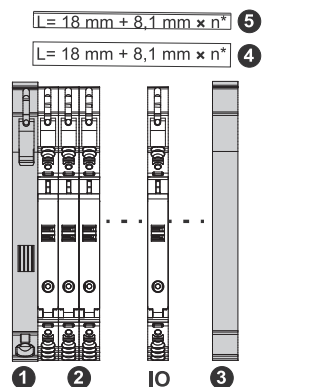
- 1 Einspeiseklemme aus Set 716425/716447
- 2 Überwachungsbaustein – LOCC-Box
- 3 Endblock aus Set 716425/ 716447
- 4 Kupferschiene 1 m (716426)
- 5 Kupferschienen konfektioniert (716426.xxx.x)
- 6 Abdeckung Kupferschiene (716427)

EN 1. Standard application with power rail

- 1 Supply terminal from set 716425/716447
- 2 Monitoring Module – LOCC-Box
- 3 End terminal from set 716425/716447
- 4 Copper rail 1 m (716426)
- 5 Copper bus bars tailored (716426.xxx.x)
- 6 Cover copper rail (716427)

FR 1. Application standard avec rail d'alimentation

- 1 La borne de raccordement au réseau se trouve dans le kit 716425/ 716447
- 2 Convertisseur de mesure – LOCC-Box
- 3 Borne d'extrémité est inclus dans le kit 716425/ 716447
- 4 Barre de cuivre (716426)
- 5 Recouvrement pour rail cuivre (716427)



*n= LOCC-Box Module/Modules/Modules

DE 2. Stand-alone Anwendung

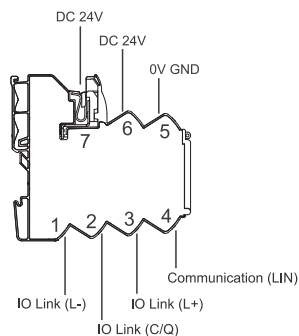
Das LOCC-Box I/O-Link-Gateway kann auch als eigenständiges Gerät verwendet werden.

EN 2. Stand alone application

The LOCC-Box I/O link gateway can also be used as a stand-alone device.

FR 2. Application standard

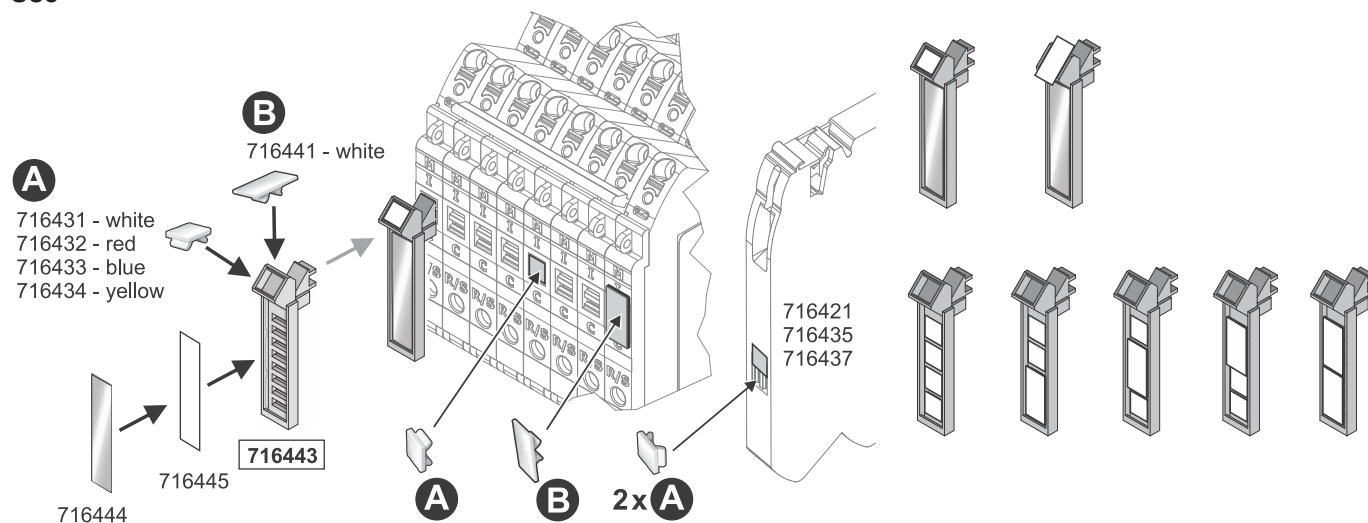
La passerelle de liaison E/S LOCC-Box peut également être utilisée en tant que dispositif autonome.



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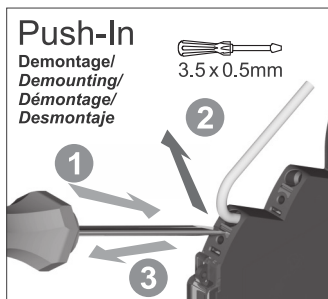
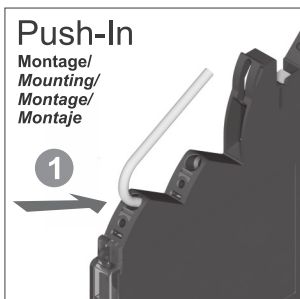
Use



Mounting diagram

DE Verdrahtung EN Wiring FR Câblé ES Cableado

! HINWEIS / NOTICE / AVIS / AVISO



Standard-Werte / Standard values / Valeur standard / Valores estándar

Abisolierlänge/ Stripping Length/ Longueur du dénudage/ Longitud de desaislado	Querschnitt/ Cross section/ Section/ Sección transversal	3.5 x 0.5mm
9/10	0.25 ... 2.5 mm², AWG 24 – 14	
9/10	0.25 ... 2.5 mm², AWG 24 – 14	
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UL Werte / UL values / Valeur UL / Valores UL

9/10	0.25 ... 2.5 mm², AWG 24 – 14
Material cable: Cu, Temperature range (operation): -25°C ≤ Tamb ≤ +70°C	

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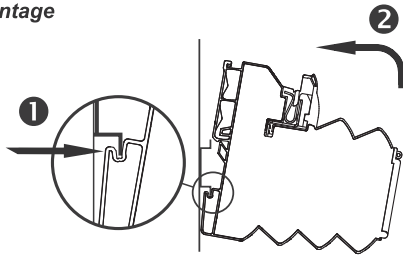
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Mounting diagram

DE Montage

EN Mounting

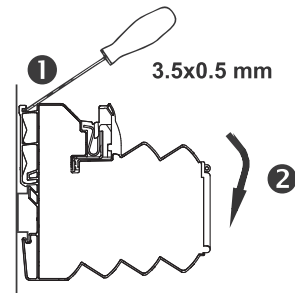
FR Montage



DE Demontage

EN Dismounting

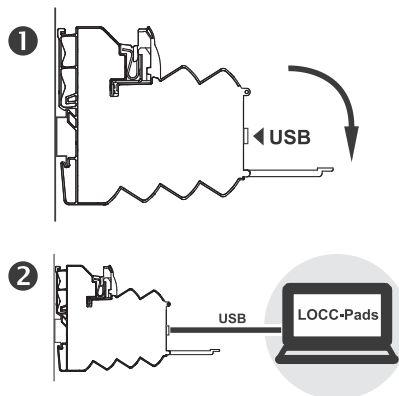
FR Démontage



DE Konfiguration

EN Configuration

FR Configuration



DE



LOCC-Pads

Die kostenlose *LOCC-Pads* Software finden Sie im Downloadbereich von www.luetze.de

EN



LOCC-Pads

The free *LOCC-Pads* software can be found in the download area of www.luetze.com

FR



LOCC-Pads

Le logiciel gratuit *LOCC-Pads* se trouve dans la zone de téléchargement de : www.luetze.fr

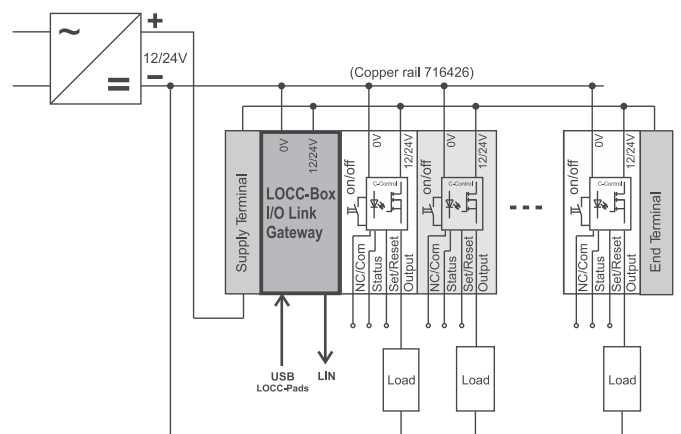
Circuit diagram

DE Prinzipschaltbild EN Block diagram

FR Schéma de principe

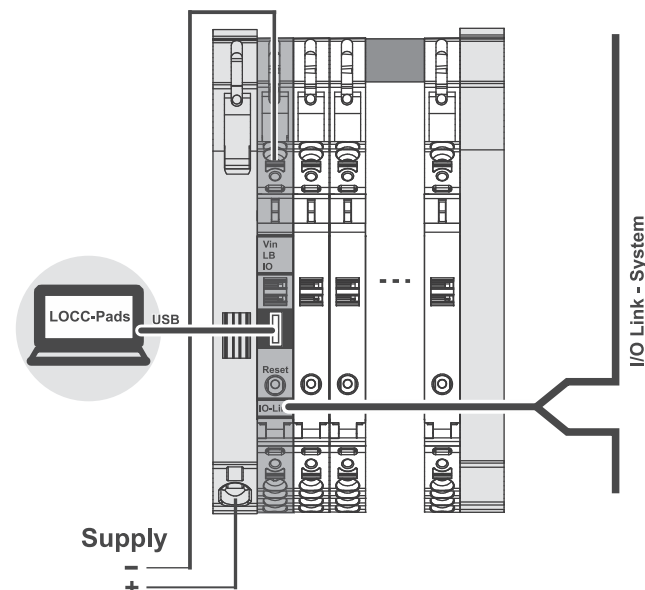
- DE 1. LOCC-Boxen System mit Einspeiseset
EN 1. LOCC boxes system with power supply set
FR 1. Système de boîtes LOCC avec set d'alimentation

Power supply



DE Anwendungsbeispiel EN Application example

FR Exemple d'application



DE 2. LOCC-Boxen System mit Direkteinspeisung

EN 2. LOCC boxes system with direct feeding

FR 2. Système de boîtes LOCC avec alimentation directe

Power supply

