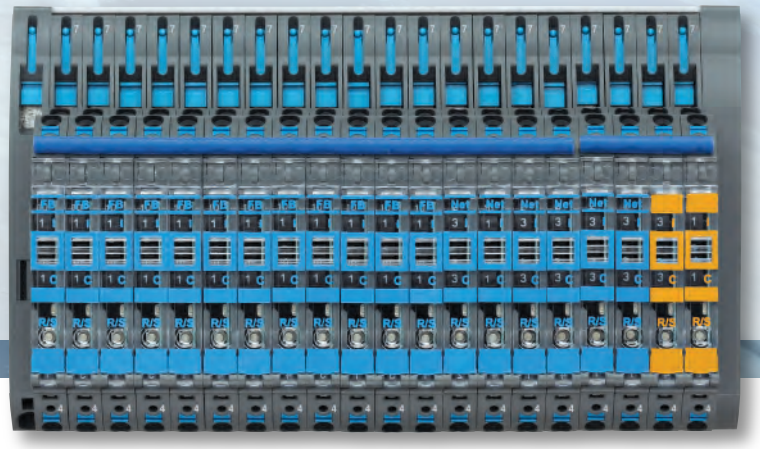
Product FOCUS

Efficiency in Automation

Cable • Connectivity • Cabinet • Control

LOCC-Box

The intelligent current monitoring system of LÜTZE



LOCC-Box Highlights

- 1- and 2-channel versions on 8.1 mm overall width
- “Activation” possible if service is required
- Up to 50 setting options in one module
- Integration into field bus systems
- Bridges instead of wiring
- Compact system construction, with different versions available
- Cost savings

LOCC-Box-FB
Version for nearly all requirements. 50 manual setting options in one module. This means design flexibility and cost savings in purchasing, in the warehouse, in switch cabinet construction or in on-site service.

LOCC-Box-Net
Builds on the LOCC-Box Standard, with communication via various field bus systems (Profinet-IO, Profibus-DP or EtherCAT). Optional current and voltage measurement, precise on/off switching, preventative maintenance and status requests are possible.

LOCC-Box-EC
Affordable version for the essential tasks of line and device protection. Status request is possible via Pin 3. The current range and tripping characteristic are determined by order code and are factory-set. The protected output is available through 3 connection terminals and saves additional distribution terminals and costs.

LOCC-Box-ED
Cost-optimized 2-channel version on 8.1 mm, including status notification for each channel. Flexible current range setting with a rotary selector in 1A steps for both channels.

LOCC-Box-C2 / C2Net
Compliant with NEC Class 2 and actively limits the output current. Thus, the output rating is limited to max. 96 W. Special power supply units in accordance with NEC Class 2 are not required.

Friedrich Lütze GmbH • Bruckwiesenstraße 17 - 19 • 71384 Weinstadt
Tel.: 049 7151 60 53-0 info@**luetze.de** • **www.luetze.de**

LÜTZE SYSTEMATIC TECHNOLOGY

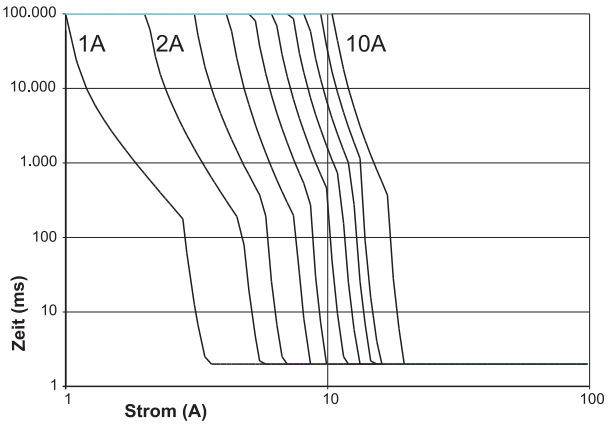
Current control from Lütze: **LOCC-Box at a glance**

Highlights

- 1-channel version on 8.1 mm overall width
- Reduces space and costs
- Narrowest component on the market
- Variable current range setting per rotary switch
- Push-in terminal blocks for wiring without tools
- Single-channel fault indication

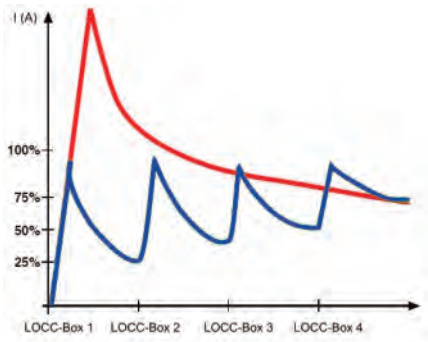
Patented tripping characteristic (characteristic curves)

- Covers thermal and magnetic fields
- From fast to super slow (5 adjustments)
- Reliable tripping
- No limit switch function



Power supply in rush current reduced when switched on

- Delayed load switching
- Reduction of "stress" for the power supply unit
- Longer service life



NEC Class 2 in accordance with UL 61010

- Active current limit
- Output line limit < 96 W
- Use of standard power supply units possible
- Built with UL-compliant load circuits
- Useable in 12 V and 24 V circuits

Integration in field bus systems

- Channel-related information , process data (status, current, voltage...)
- Preventative maintenance through current measurement
- Switching level reduction

PROFINET® PROFIBUS® EtherCAT® Technology Group

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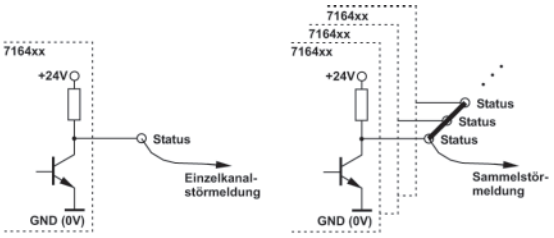
LÜTZE SYSTEMATIC TECHNOLOGY

Single-channel or centralized fault signaling through the use of jumpers

- Reduction of wiring costs
- Bridges instead of wiring
- Customized fault signal
- Cost savings



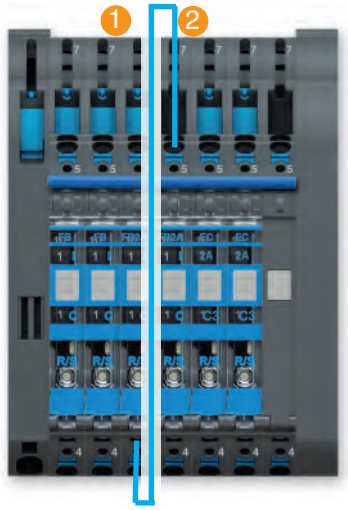
Distribution terminal

- For multiplying the protected output, make 5 on 1
- Reduction of additional costs
- Can be integrated into the existing system construction

1 Standard LOCC-Box, e.g. 716401
2 Distribution terminal, e.g. 716448

Selectivity safeguarded!

a) Parallel selectivity
b) Serial selectivity (cascading construction)
- Can be integrated into the existing system construction
- Use of LOCC-Box-xxK module



1 Standard FB version, e.g. 716401
2 FBK version for cascading, e.g. 716416.001.1

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SYSTEMATIC TECHNOLOGY

	Designation	Adjustability	Current range (I)	Characteristic (C)	Communication	
					Digital I/O	Feldbus
LOCC-Box - DC 12 / 24 V						
716401	LOCC-Box-FB	I, C	1-2-3-4-5-6-7-8-9-10 A	1-2-3-4-5	•	
716409	LOCC-Box-FB2A	I, C	0,2-0,4-0,6-0,8-1-1,2-1,4-1,6-1,8-2 A	1-2-3	•	
716407.xxxx *	LOCC-Box-EC	-	1-2-3-4-5-6-7-8-9-10 A *	3	•	
716412.0xxx *	LOCC-Box-EC2	I	1-2-3-4-5-6-7-8-9-10 A	3	•	
716413	LOCC-Box-C2	I, C	0,5-1-1,5-2-2,5-3-3,5-4 A	1-2-3	•	
716415.0xxx *	LOCC-Box-ED	I	1-2-3-4-5-6 A	3	•	
716410	LOCC-Box-Net	I, C	1-2-3-4-5-6-7-8-9-10 A	1-2-3-4-5	•	•
716414	LOCC-Box-C2Net	I, C	0,5-1-1,5-2-2,5-3-3,5-4 A	1-2-3	•	•
716416.001.1	LOCC-Box-FBK	I, C	1-2-3-4-5-6-7-8-9-10 A	1-2-3-4-5	•	
716416.002.1	LOCC-Box-NetK	I, C	1-2-3-4-5-6-7-8-9-10 A	1-2-3-4-5	•	•
716416.903.1	LOCC-Box-EDK	I	1-2-3-4-5-6 A	3	•	
LOCC-Box-DC 48 V						
716406	LOCC-BoxFB48	I, C	1-2-3-4-5-6 A	1-2-3-4-5	•	

* According to order code

	Part number	Designation	Comment
Accessories			
	716425	LOCC-Box-ES	Terminal set consists of feed terminal and end terminal - 10 mm²
	716447	LOCC-Box-ES	Terminal set consists of feed terminal and end terminal - 16 mm²
	716420	LOCC-Box-SK	0 V collective terminal, 6 connections, max. sum current 40 A
	716448	LOCC-Box-VKL	Distribution terminal, 4 connections, max. sum current 10 A
	716428	LOCC-Box-BKW	Jumper comb, 8-pole, white
	716430	LOCC-Box-BKB	Jumper comb, 8-pole, blue
	716438	LOCC-Box-BKW	Jumper comb, 16-pole, white
	716440	LOCC-Box-BKB	Jumper comb, 16-pole, blue
	716426	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, 1 m, 160 A, VPE 1 St.
	716426.004.2	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, for 4 modules + terminal set, 160 A, PU 10 St.
	716426.008.2	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, for 8 modules + terminal set, 16 0A, PU 10 St.
	716426.016.2	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, for 16 modules + terminal set, 160 A, PU 10 St.
	716426.032.1	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, for 32 modules + terminal set, 160 A, PU 1 St.
	716426.064.1	LOCC-Box-CU	Copper bus bar tin-plated, 3 x 10 mm, for 64 modules + terminal set, 160 A, PU 1 St.

Automation Videoblog:
The new LOCC-Box for intelligent electronic current control