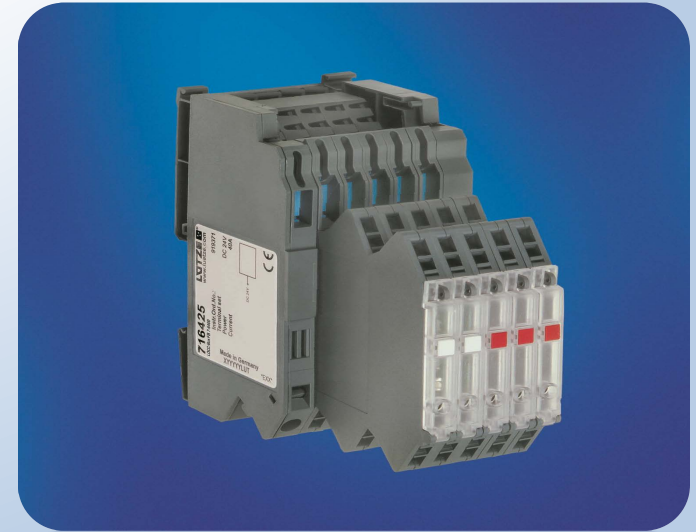




SYSTEMATIC TECHNOLOGY

LOCC-Box Electronic Control Circuit Protection



- Solid State 24V DC control circuit protection
- Independent of ambient temperature - no derating required
- Independent of cable length - will accurately perform with long cable runs
- 100% repeatability
- Output trip alarm signal
- Remote reset (24V Signal)
- Remote on/off (24V Signal)
- LED status indicator on/off/alarm

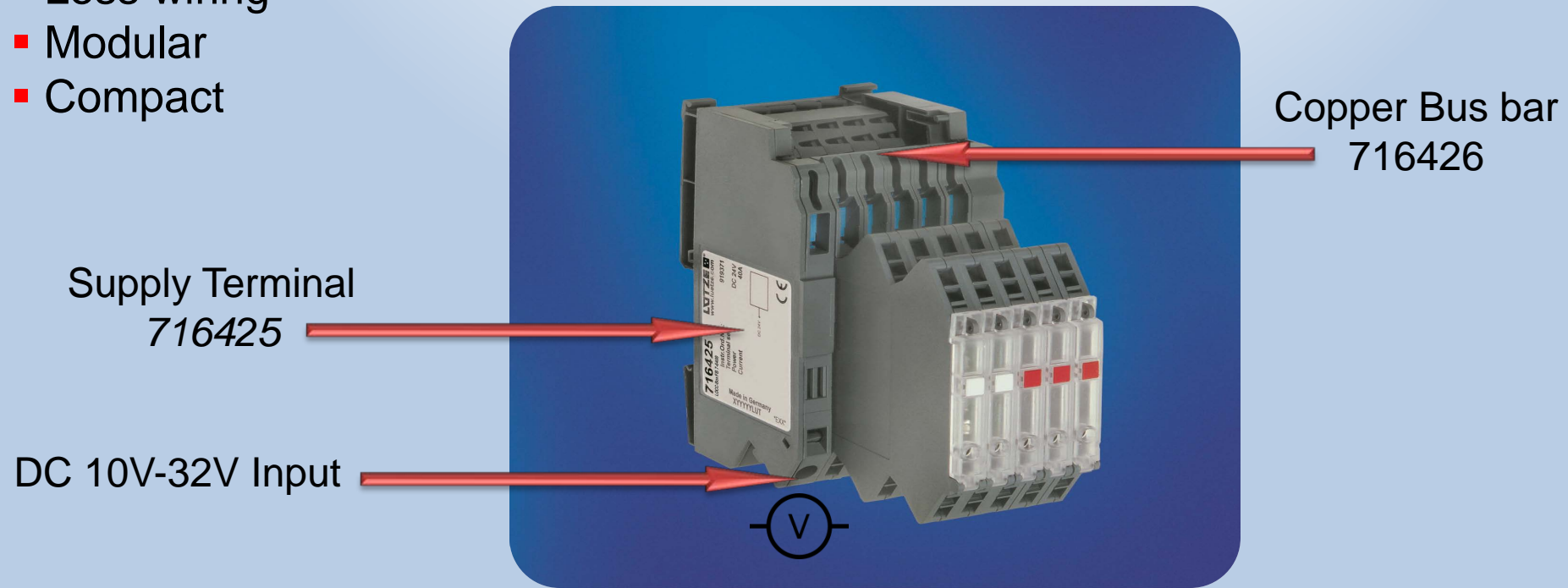
- Adjustable current range (1-10A)
- Adjustable characteristics: (fast, medium, slow 1, slow 2, slow 3)
- Single and multi-channel options
- Narrow housing, only 8.1 mm in width
- Din rail mountable
- Gateway communication capabilities for remote monitoring (optional)
- Input supply terminal with bus bar capabilities (optional)
- UL Listed

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[YouTube.com/LOCC-BoxVideo](https://www.youtube.com/watch?v=LutzeLOCC-BoxVideo)

Additional Technical *Features* ***Input Supply Terminal (Optional)***

- Distributes power over a cooper bus bar (up to 40 amps per input supply terminal)
- Individual “physical” power disconnection from the load via sliding terminal
- Less wiring
- Modular
- Compact



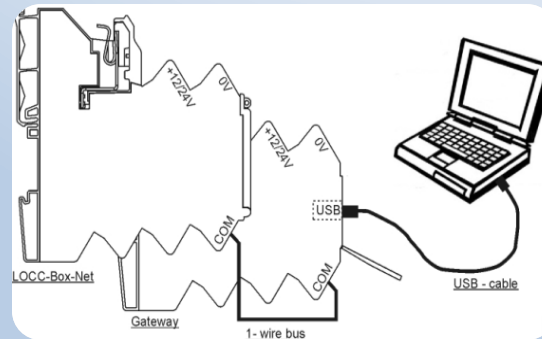
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Additional Technical Features LOCC Box – Net (Optional)



- Bus connection to industrial Fieldbus via gateway
- Available Gateway protocols

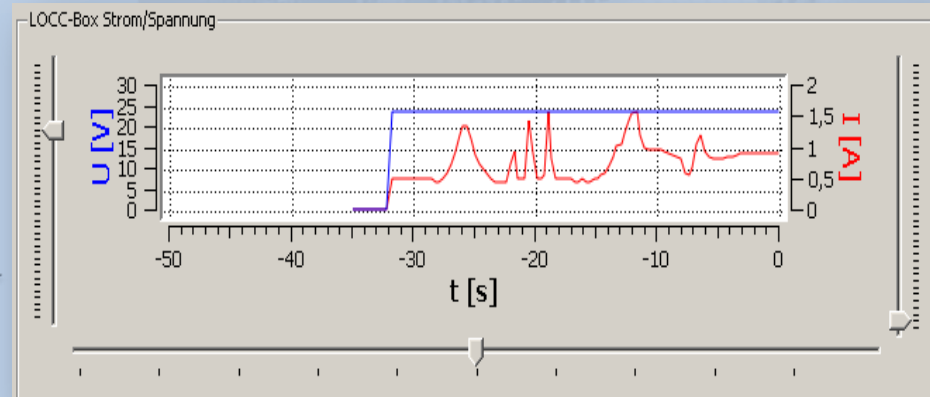
- CANopen
- Profinet
- Profibus
- EtherCAT
- RS232



- Direct **USB** connection (for configuring) 

- Windows based visual software LOCC-Pads for:

- Analyzing (voltage/amperage output)
- Diagnostic
- Configuring
- Data Logging





SYSTEMATIC TECHNOLOGY

LOCC Box Descriptions

Part-No.	716400	716401	716410
	LOCC-Box	LOCC-Box	LOCC-Box-Net
Current range	10, adjustable, 1A – 10A	10, adjustable, 1A – 10A	10, adjustable, 1A – 10A
Characteristic	5 Fast, medium, slow1, slow2, slow3	5 Fast, medium, slow1, slow2, slow3	5 Fast, medium, slow1, slow2, slow3
Status output Alarm signal	overload & short circuit	overload, short circuit and manual OFF	overload, short circuit, manual off and configurable
Remote input	ON / OFF via input pulse	ON / OFF via input pulse	ON / OFF via input pulse
BUS connection	no	no	yes
Software	no	no	LOCC-Pads
Gateway	no	no	Yes

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LUTZE LOCC-Box Gateways

LOCC Box Net (716410) Gateways:

- CANopen (716459)

CANopen

-Profinet IO (716457)

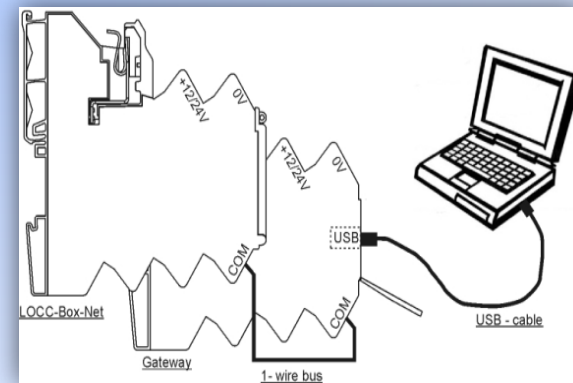
PROFINET

-Profibus DP (716458)

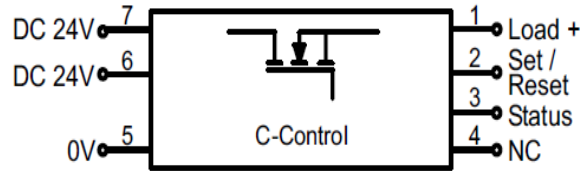
PROFIBUS

-EtherCAT (716456)

EtherCAT
Technology Group

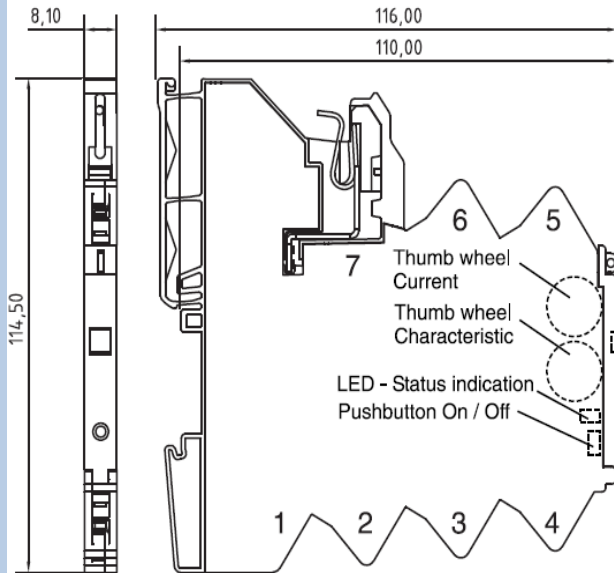


PIN assignment



- 1: + Output
- 2: Control input (Set/Reset)
- 3: Status output
- 4: NC
- 5: 0V
- 6: + Supply (alternative)
- 7: + Supply

Dimensions



Switching element	Transistor, collector with pull-up resistance	
General		
Housing material	PA 6.6 (UL 94-V0; NFF 12, F2)	
Field installation	rail TS 35 (EN 50022)	
Protection class	IP 20	
Installation position	Optional	
Termination	Spring terminal 0.25–2.5 mm ²	
Operation temperature range	-25 °C – 50 °C	
Storage temperature range	-40 – 85 °C	
Dimensions (w × h × d) in mm	8.1 × 114.5 × 116.0	
Weight (kg/piece)	0.120	
Approvals	cURus	
Standards	EN 60950-1; EN 61131-1,2; EN 61000; EN 60947-4-1; EN 55022	
Input	LOCC-Box-FB 7-6400	LOCC-Box-FB 7-6401
Nominal voltage	DC 12 / 24 V	
Operation voltage range	DC 10 V – 32 V	
Rated current	DC 10 A	
Supply current	DC 40 A over Cu-rails 10 × 3 mm	
Reverse voltage protection	internal electronics	
Termination	screwless disconnect slide	
Control input (Set / Reset)		
Signal level	DC 24 V (EN 61131)	
Fall time	Pulse with falling edge >100 ms, <800 ms	
Rise time	Pulse with falling edge > 1 s	
Connection	Spring terminal 0.25–2.5 mm ²	
Output		
Switching element	MosFet	
Output current	max. DC 10 A	
Voltage drop	<170 mV (10 A)	
Status Indication	LED green: Operating voltage present, no error LED red: Error in load circuit	
Switch-on capacity	10000 µF	
Current range	1 A – 10 A (adjustable via switch in 1 A steps)	
Characteristic	fast-acting, medium-slow, slow 1 (3), slow 2 (4), slow 3 (5)	
Signal output		
Signal level	DC 12/24 V: Operating voltage present, no error; DC 0 V: error, output switched off	DC 12/24 V: Operating voltage present, no error; DC 0 V: error, output switched off and manual "OFF"

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