



■ Automation Solutions

LÜTZE

DC Current Control

LOCC-Box

LCOS-CC

Intelligent current monitoring management system: LCOS-C

Flammability class
UL 94-V0

Bus coupler for all
conventional systems

Adjustable characteristics

Adjustable rated current

Manual On /Off

2-channel design

2-pole disconnection

"Power ON" effect

Saving of the last status

**Temperature-independent
response time**

Supply - also with
galvanic insulation

Clear labelling



and energy EC



SkyBLUE

Intermediate in-feed option

Status output operation

failure, manual switch-off, 90 % capacity

Remote On/Off

**Modular expandable
data bus**

**Modular expandable
power bus**

**Integrated protection
against alignment**

**UL508,
GL approvals**

**Plug-in functional
assemblies**

Modular, flexible and safe: LOC

The intelligent LÜTZE Overload

Adjustable rated current
(1 A...10 A in 1 A Steps)

Adjustable characteristic
(fast- ... slow acting)

“Power-ON”-effect
to switch on capacitive loads

Single or centralized fault indication

Non-volatile store of the last status

Spring terminals

Small device – width 8,1mm

**Response time independent
of temperature**

**Contact slots for each potential usable
for jumper combs**

**Solid state relay with current control
switching frequency up to 1 kHz**

**Contact slots for each potential usable for
jumper combs**



C-Box / LOCC-Box-Net

Current Control System

*Sky***BLUE**

Remote ON / OFF

Manual ON / OFF

Status indication “operation”, “fault”,
“90 % load” and “100 % load”

Adjustments can be sealed by
standard seal wire

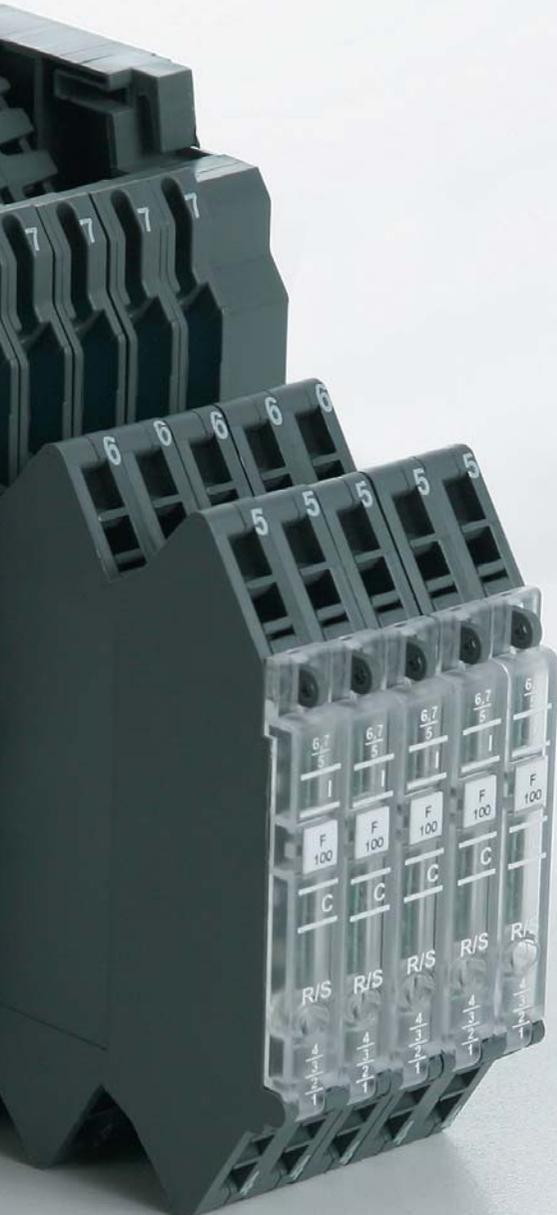
Flammability class
UL-94-V0; NFF I2,F2

Uninterruptible supply
via copper bar and contact slide

Option: One wire bus interface (716410)

UL listed 508

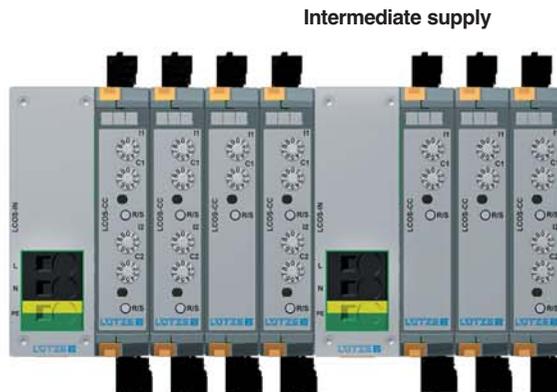
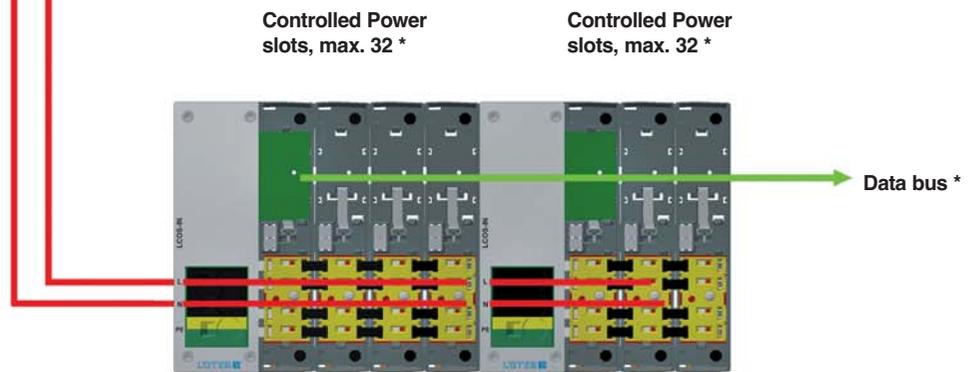
The picture shows 5 x LOCC-Box incl. supply set



LCOS-CC • Application examples

e.g. Switching power supply 722814

DC 24 V, 100 A.



*Option with fieldbus – Design on request.

LOCC-Box / LOCC-Box-Net • Application examples

e.g. Switching power supply 722814

DC 24 V, 100 A.



Standard Application
with supply set, art. no. 716425



PIN no.

1 1 1 1 1 1 1 1 1 1 1 1

Load
Consumer

PIN-Nr. 5, 6

5, 6

Construction of the 0 V Collective terminal
with supply set
Art. no. 716425



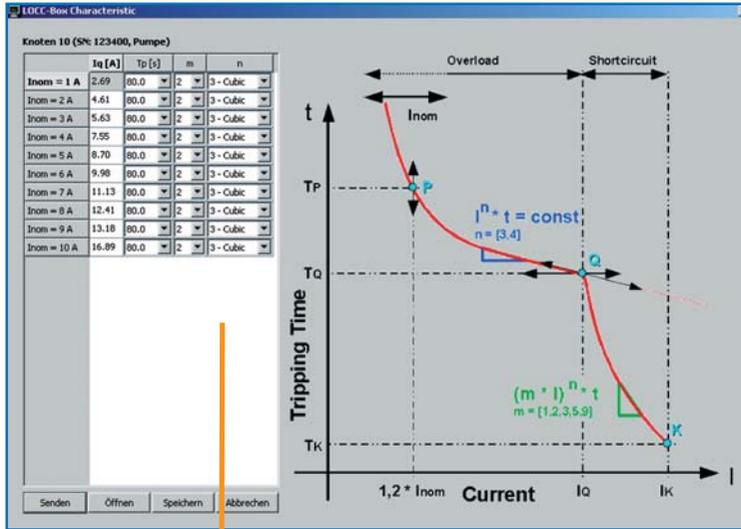
1-4

1-4

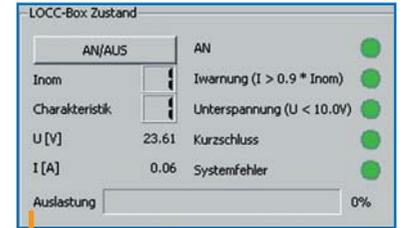
LOCC-Pads • Monitoring software

LOCC-Pads*

Software for the parameterisation of the LOCC-Box-Net, as well as the analysis and diagnosis of DC 12 / 24 V circuits



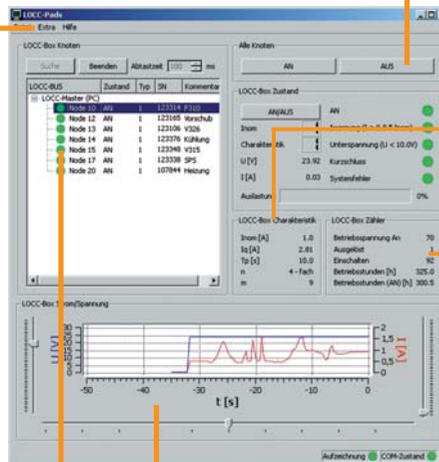
Adjustment parameters for the parameterisable characteristic No. 10



Displays the operating status, current range / characteristic, the load capacity of the characteristic, as well as the updated current and voltage values.

- COM Einstellung
- LOCC-Box Charakteristik
- LOCC-Box Module
- LOCC-Box Aufzeichnung
- LOCC-Box Einstellung
- LOCC-Box Gateway
- Firmware Download
- Sprache

Menu "Extra"



Overall view

LOCC-Box Charakteristik:

Inom [A]	1.0
Iq [A]	2.81
Tp [s]	10.0
n	4 - fach
m	9

Displays the parameters of the selected characteristic curve.

LOCC-Box Logging

Datum/Zeit	Knoten	Zustand	Fehler	I [A]	U [V]	Kommentar
2008-12-09 11:23:42						Aufzeichnung gestartet ...
2008-12-09 11:23:43	17	AN		0.06	23.92	SPS
2008-12-09 11:23:43	10	AN		0.06	23.61	Pumpe
2008-12-09 11:23:44	11	AN		0.03	23.92	L
2008-12-09 11:23:44	12	AN		0.06	23.77	Motor 1
2008-12-09 11:23:44	13	AN		0.06	23.46	V326
2008-12-09 11:23:45	14	AN		0.03	24.22	L
2008-12-09 11:23:45	15	AN		0.03	23.92	V315
2008-12-09 11:24:01	10	Ausgelöst	Kurzschluss	0.06	23.61	Pumpe
2008-12-09 11:24:07	10	AUS	Kurzschluss	0.00	0.00	Pumpe
2008-12-09 11:24:09	10	AN		0.06	23.61	Pumpe

Recording of all results such as "ON", "OFF" or "SHORT CIRCUIT" with date and time

LOCC-Box Zähler

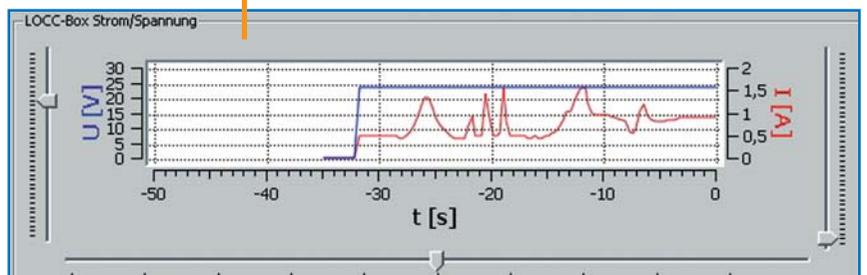
Betriebsspannung An	42
Ausgelöst	39
Einschalten	142
Betriebsstunden [h]	144.0
Betriebsstunden (AN) [h]	108.5

Indicates the current meter readings of the selected module

LOCC-Box Knoten

LOCC-BUS	Zustand	Typ	SN	Kommentar
LOCC-Master (PC)				
Node 10	AN	1	123400	Pumpe
Node 11	AN	1	123314	L
Node 12	AN	1	123165	Motor 1
Node 13	AN	1	123106	V326
Node 14	AN	1	123376	L
Node 15	AN	1	123348	V315
Node 17	AN	1	123338	SPS

Overview of all connected modules



Plotter function for the selected module – current/voltage progression (analysis)

* in connection with a gateway (CANopen, EtherCAT, Profinet-IO, Profibus-DP)

DC Current Control LCOS-CC



Load monitoring • LCOS-CC

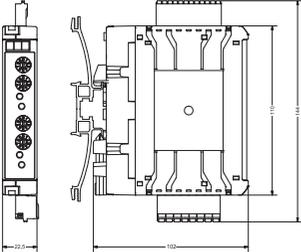
Electronic load monitoring up to DC 10 A

2-channel version, one-pole switching, DC 1 A – DC 10 A, characteristic can be set

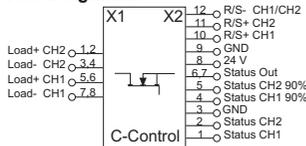
Collective fault message: single/collective/90% message, Remote Control input



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Nominal voltage	DC 24 V	779000.2111	LCOS-CC-2K-1P-DC24V	1
Input				
Nominal voltage	DC 24 V			
Operation voltage range	DC 20.4 V – 28.8 V			
Rated current	DC 10 A			
Supply current	DC 32 A via LCOS power bus			
Reverse voltage protection	internal electronics			
Control input (Set / Reset)				
Signal level	DC 24 V (EN 61131)			
OFF	Pulse with falling edge >100 ms, <800 ms			
ON	Pulse with falling edge > 1 s			
Galvanic isolation I/O	2.5 kV, 50 Hz, 1 min.			
Output				
Switching element	MosFet			
Output current	max. DC 10 A			
Voltage drop	<170 mV (10 A)			
Status Indication	LED green: operating voltage ON, no fault, green flashing: 90 % I _B red flashing: triggered, red: OFF			
Switch-on capacity	>10000 µF			
Current range	1 A – 10 A (adjustable via switch in 1 A steps)			
Characteristic	fast (1), middle (2), slow 1 (3), slow 2 (4), slow 3 (5), adjustable via switch			
Signal output				
Switching element	Transistor in open collector version with Pull Up resistance			
Single channel message	(Status CH1, CH2) Acc. to IEC 61131-2: High level, no errors, low level, there are errors			
90 % of the rated current I _B	(Status 90 % CH1, CH2) Acc. to IEC 61131-2: High level <90 %, low level >90 %			
Insulation voltage	-			
centralised fault signalling	(Status Out) Single channel message 1+2, decoupled via diodes			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, F2)			
Field installation	can be connected to LCOS function carrier 22.5 mm (accessories), DIN Rail mounting EN 60715			
Protection class	IP 20			
Installation position	Optional			
Vibration resistance	Vibration: EN 60068-2-6 Fc, Shock: EN 60068-2-27 Ea			
Climatic conditions	Acc. to EN 60721 Stationary use at weather protected locations			
Termination	X1: Load side: 8-pole measuring strip, CS 5.08 X2: Control side: 12-pole measuring strip, CS 3,5			
Operation temperature range	0 °C – 55 °C			
Storage temperature range	-40 – 70 °C			
Dimensions (w × h × d)	22.5 × 110.0 × 102.0 mm (including function carrier, without plug-in terminals on the side)			
Weight (kg/piece)	0.200			
Approvals	CE, in preparation: cULus			
Standards	EN 61131-2, EN 55016-1-2, EN 60529, EN 61000-6-2, EN 61000-6-4			
Accessories	Colour	Article number	Type	PU
Function carrier 22.5 mm, Power module		780402.225.1	LCOS-FT-PE-225-0P-02-1	1
Function carrier 22.5 mm, Power module		780402.225.2	LCOS-FT-PE-225-0P-02-1	10
Supply module DC 24 V, 57.5 mm, PE, no field bus connection		780700.575.1	LCOS-FTE-PE-575-NC-00-1	1
Power bridge 1-pole		780961.001.2	LCOS-ZB-PB-01-00	10
Power bridge 1-pole		780961.001.3	LCOS-ZB-PB-01-00	50
Label plate 5×5 mm, frame with 200 plates	white	780981.000.2	LCOS-ZB-BZS-white-00	10
Label plate 5×5 mm, frame with 200 plates	red	780982.000.2	LCOS-ZB-BZS-red-00	10
Label plate 5×5 mm, frame with 200 plates	blue	780983.000.2	LCOS-ZB-BZS-blue-00	10
Terminal black, CS 5.08, 8-pole, 2.5 mm ² Push-in, 1-8 printed		780922.000.2	LCOS-ZB-KL-FS-508-25-8-black	10
Terminal black, CS3.50, 12-pole, 1.5 mm ² Push-in, 1-12 printed		780921.000.2	LCOS-ZB-KL-FS-350-15-12-black	10

Load monitoring • LCOS-CC

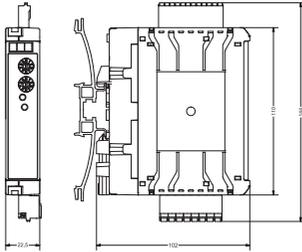
Electronic load monitoring up to DC 10 A

1-channel version, two-pole switching, DC 1 A – DC 10 A can be set, characteristic can be set

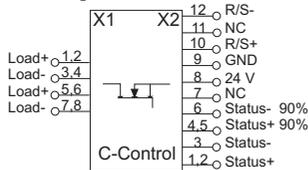
Collective fault message: single/collective/90% message, Remote Control input per channel



Dimensions



PIN assignment



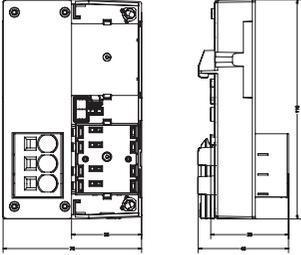
Description	Part-No.	Type	PU	
Nominal voltage	DC 24 V	779000.1211	LCOS-CC-1K-2P-DC24V	1
Input				
Nominal voltage		DC 24 V		
Operation voltage range		DC 20.4 – 28.8 V		
Rated current		DC 10 A		
Supply current		DC 32 A via LCOS power bus		
Reverse voltage protection		internal electronics		
Control input (Set / Reset)				
Signal level		DC 24 V (EN 61131)		
OFF		Pulse with falling edge >100 ms, <800 ms		
ON		Pulse with falling edge > 1 s		
Galvanic isolation I/O		2.5 kV, 50 Hz, 1 min.		
Output				
Switching element		MosFet and relay (galvanic separation both poles: 500 V)		
Output current		max. DC 10 A		
Voltage drop		<170 mV (10 A)		
Status Indication		LED green: operating voltage ON, no fault, green flashing: 90 % I _B red flashing: triggered, red: OFF		
Switch-on capacity		>10000 µF		
Current range		1 A – 10 A (adjustable via switch in 1 A steps)		
Characteristic		fast (1), middle (2), slow 1 (3), slow 2 (4), slow 3 (5), adjustable via switch		
Signal output				
Switching element		One relay with 1 S per signal type		
Single channel message		(Status CH1, CH2) 1 N/O contact, AC/DC 250 V, 1 A Relay closed: error Relay open: no error		
90 % of the rated current I _B		(Status 90 % CH1, CH2) 1 N/O contact, AC/DC 250 V, 1 A Relay closed: >90 %, Relay open: <90 %		
Insulation voltage		2.5 kV, 50 Hz, 1 min.		
centralised fault signalling		–		
General				
Housing material		PA 6.6 (UL 94-V0; NFF I2, F2)		
Field installation		can be connected to LCOS function carrier 22.5 mm (accessories), DIN Rail mounting EN 60715		
Protection class		IP 20		
Installation position		Optional		
Vibration resistance		Vibration: EN 60068-2-6 Fc, Shock: EN 60068-2-27 Ea		
Climatic conditions		Acc. to EN 60721 Stationary use at weather protected locations		
Termination		X1: Load side: 8-pole measuring strip, CS 5,08 X2: Control side: 12-pole measuring strip, CS 3,5		
Operation temperature range		0 °C – 55 °C		
Storage temperature range		-40 – 70 °C		
Dimensions (w × h × d)		22.5 × 110.0 × 102.0 mm (including function carrier, without plug-in terminals on the side)		
Weight (kg/piece)		0.200		
Approvals		CE, in preparation: cULus		
Standards		EN 61131-2, EN 55016-1-2, EN 60529, EN 61000-6-2, EN 61000-6-4		
Accessories				
Function carrier 22.5 mm, Power module	Colour	Article number	Type	PU
Function carrier 22.5 mm, Power module		780402.225.1	LCOS-FT-PE-225-0P-02-1	1
Function carrier 22.5 mm, Power module		780402.225.2	LCOS-FT-PE-225-0P-02-1	10
Supply module DC 24 V, 57,5 mm, PE, no field bus connection		780700.575.1	LCOS-FTE-PE-575-NC-00-1	1
Power bridge 1-pole		780961.001.2	LCOS-ZB-PB-01-00	10
Power bridge 1-pole		780961.001.3	LCOS-ZB-PB-01-00	50
Label plate 5×5 mm, frame with 200 plates	white	780981.000.2	LCOS-ZB-BZS-white-00	10
Label plate 5×5 mm, frame with 200 plates	red	780982.000.2	LCOS-ZB-BZS-red-00	10
Label plate 5×5 mm, frame with 200 plates	blue	780983.000.2	LCOS-ZB-BZS-blue-00	10
Terminal black, CS 5.08, 8-pole, 2.5 mm ² Push-in, 1-8 printed		780922.000.2	LCOS-ZB-KL-FS-508-25-8-black	10
Terminal black, CS3.50, 12-pole, 1.5 mm ² Push-in, 1-12 printed		780921.000.2	LCOS-ZB-KL-FS-350-15-12-black	10

Load monitoring • Accessories

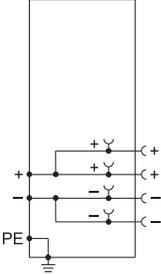
Supply module 57,5 mm, without data bus
 Power bus: DC 500 V, 4 × 16 A
 Integrated PE contact



Dimensions



PIN assignment



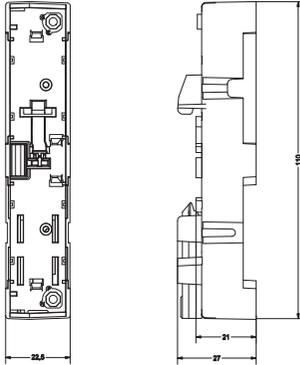
Description	Part-No.	Type	PU
Spring terminal			
Nominal voltage	780700.575.1	LCOS-FTE-PE-575-NC-00-1	1
Input			
Operating voltage	max. AC/DC 500 V UL max. 300 V max. AC/DC 16 A, 100 % ED		
Rated current	4 × 16 A, 100 % ED		
Reverse voltage protection	No		
Termination	Spring terminal (+, -, PE): 3 × 16 mm ² , 3 × 10 mm ² with ferrules		
Length of stripped insulation	12 mm		
Powermodul			
Nominal voltage	-		
Rated current	4 × 16 A, 100 % ED		
Termination	Bridge 1-pole, connectable		
Voltage drop	Powerbus at I _{max} <80 mV		
Material	Polyamid PA 6.6 (UL 94 V0, NFF I2, F2)		
Contact material	CuCrSiTi		
Surface	Contact: tin-plated		
General			
Housing material	Polyamid PA 6.6 (UL 94 V0, NFF I2, F2)		
Field installation	Din rail TS35 with interlock (EN 60715)		
Protection class	IP 20		
Installation position	Optional		
Operation temperature range	-40 °C – 85 °C		
Storage temperature range	-40 °C – 85 °C		
Dimensions (w × h × d) in mm	57.5 × 110.0 × 39.0		
Relative humidity	5 % – 95 % without condensing		
Weight (kg/piece)	0.102		
Approvals	cURus in preparation		
Loads from pollutants	According to IEC 60068-2-42, IEC 60068-2-43		
Insulation coordination	Acc. to EN 60664-1, EN 60947-1, EN 50178, EN 50124-1		
Length of entire node	1440 mm		
Shock resistance	15 g/11 ms acc. to IEC 60068-2-27 Ea		
Vibration resistance	1 g acc. to IEC 60068-2-6 Fc		
Rated insulation voltage (EN 50178)	500 V		
Overvoltage category	III		
Pollution degree	3		

Load monitoring • Accessories

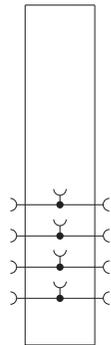
Function carrier 22.5 mm, Power module



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	AC/DC 500 V	780402.225.2	LCOS-FT-PE-225-0P-02-1	10
	AC/DC 500 V	780402.225.1	LCOS-FT-PE-225-0P-02-1	1

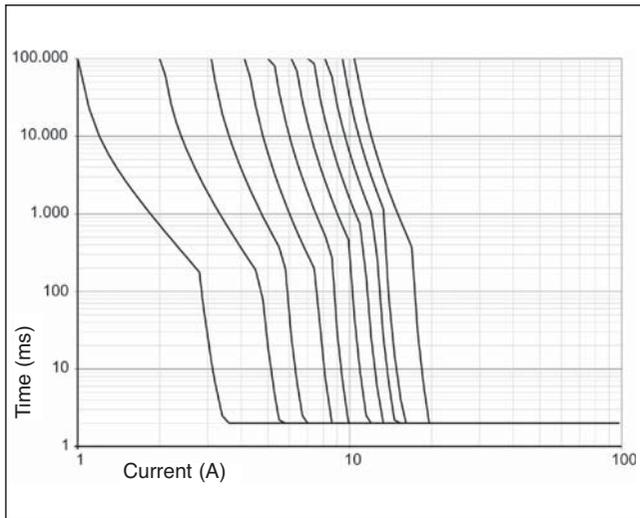
Powermodul			
Nominal voltage	AC/DC 500 V		
Rated current	4 × 16 A, 100 % ED		
Termination	Bridge 1-pole, connectable		
Voltage drop	Powerbus at $I_{max} < 80$ mV		
Material	Polyamid PA 6.6 (UL 94 V0, NFF I2, F2)		
Contact material	CuCrSiTi		
Surface	Contact: tin-plated		

General			
Housing material	Polyamid PA 6.6 (UL 94 V0, NFF I2, F2)		
Field installation	Din rail TS35 with interlock (EN 60715)		
Protection class	IP 20		
Installation position	Optional		
Operation temperature range	-40 °C – 85 °C		
Storage temperature range	-40 °C – 85 °C		
Dimensions (w × h × d) in mm	22.5 × 110.0 × 21.0		
Relative humidity	5 % – 95 % without condensing		
Weight (kg/piece)	0.023		
Approvals	cURus in preparation		
Loads from pollutants	According to IEC 60068-2-42, IEC 60068-2-43		
Insulation coordination	Acc. to EN 60664-1, EN 60947-1, EN 50178, EN 50124-1		
Length of entire node	1440 mm		
Shock resistance	15 g/11 ms acc. to IEC 60068-2-27 Ea		
Vibration resistance	1 g acc. to IEC 60068-2-6 Fc		

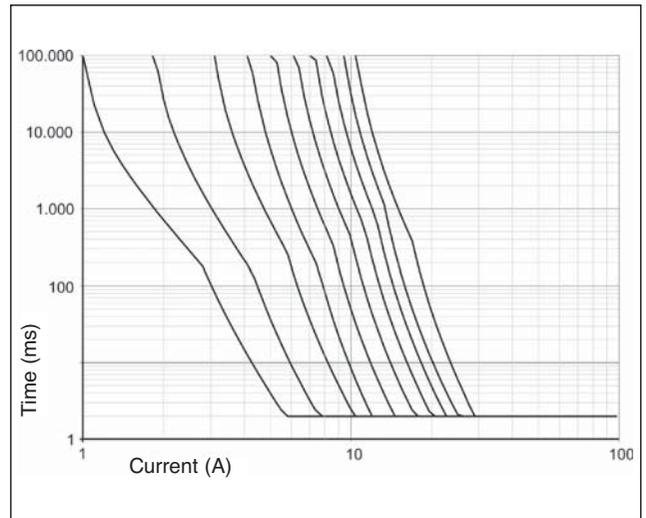
LCOS-CC • Characteristic Curves

All device variants incorporate the same characteristics

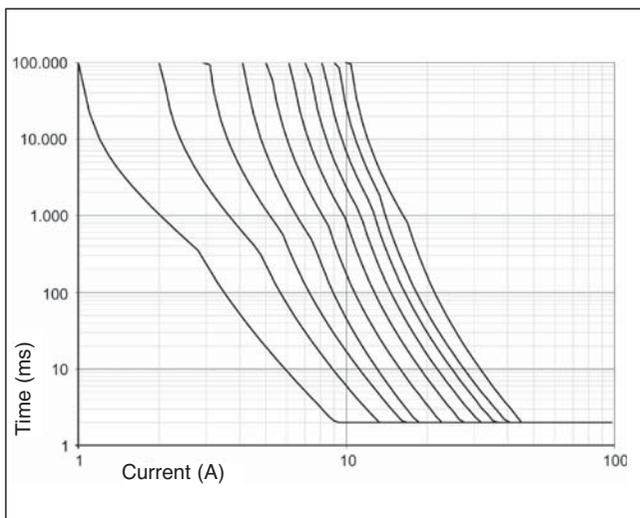
Switch position 1: Characteristic fast



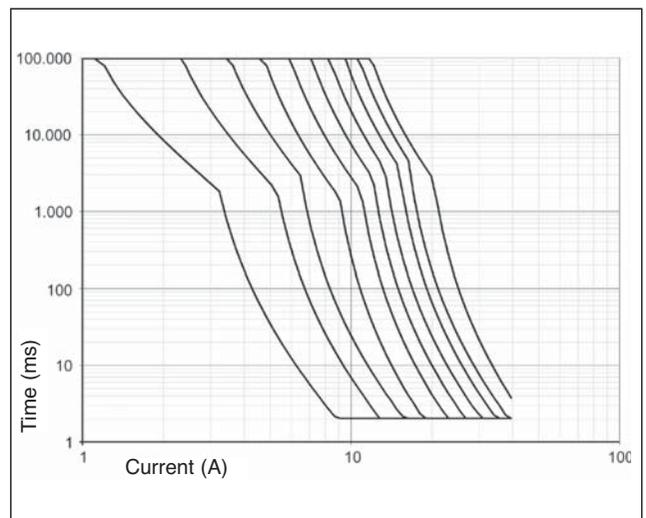
Switch position 2: Characteristic medium



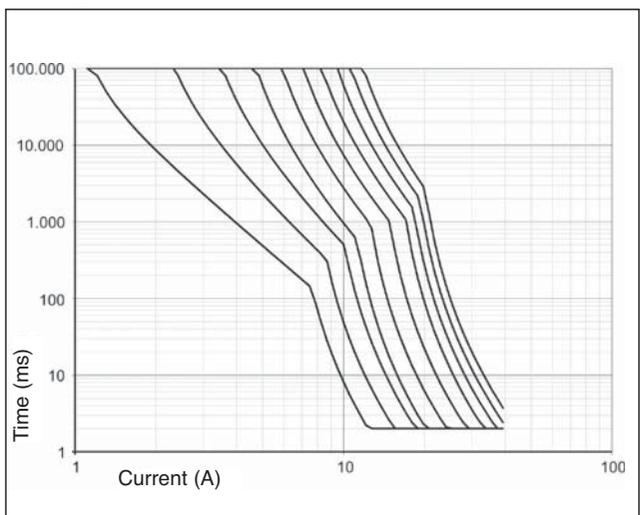
Switch position 3: Characteristic slow-1



Switch position 4: Characteristic slow-2



Switch position 5: Characteristic slow-3

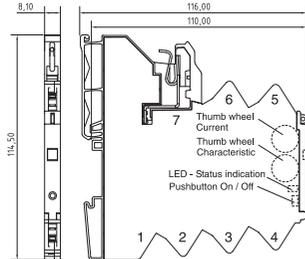


Load monitoring • Microcompact LOCC-Box

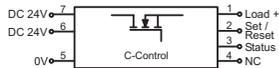
Electronic load monitoring up to DC 10 A
 Single-channel design, Adjustable current range: DC 1 A – 10 A
 Adjustable characteristics, fast, medium-speed, slow 1, -2, -3



Dimensions

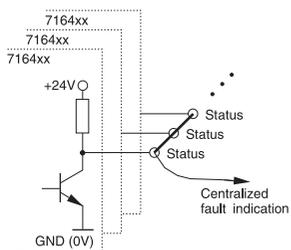
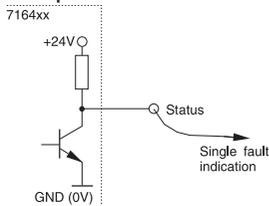


PIN assignment



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

Signal output



Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716400	LOCC-Box-FB 7-6400	1
	DC 12 / 24 V	716401	LOCC-Box-FB 7-6401	1
	DC 12 / 24 V	716401.0050	LOCC-Box-FB 7-6401	50

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 12 / 24 V (EN 61131)
OFF	Pulse with falling edge >100 ms, <800 ms
ON	Pulse with falling edge > 1 s

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 (1), medium-slow (2), slow 1 (3), slow 2 (4), slow 3 (5)

Signal output	
Signal level	DC 12/24 V: operating voltage on stand-by, no error, DC 0 V: error, output switched off DC 12/24 V: operating voltage on stand-by, no error, DC 0 V: error, output switched off and manual "OFF"

Switching element	Transistor, collector with pull-up resistance
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General	
Housing material	PA 6.6 (UL 94-V0; NFF I2, 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	cULus
Standards	EN 60950-1; EN 61131-1,2; EN 61000; EN 60947-4-1; EN 55022

Accessories	Colour	Article number	Type	PU
0 V collective terminal		716420	LOCC Box-SK 7-6420	2
Supply terminal with cutout for copper rail to increase current		716421	LOCC Box-EKL 7-6421	2
Distance terminal without contact		716422	LOCC Box-DKL 7-6422	2
LOCC Box empty housing without terminal		716424	LOCC Box-DY 7-6424	2
Supply kit (supply and end terminals)		716425	LOCC Box ES 7-6425	1
Jumper comb, 8-pin, 6 A	white	716428	LOCC Box BKW 7-6428	5
Jumper comb, 8-pin, 6 A	red	716429	LOCC Box BKR 7-6429	5
Jumper comb, 8-pin, 6 A	blue	716430	LOCC Box BKB 7-6430	5
Jumper comb, 16-pin, 6 A	white	716438	LOCC Box BKW 7-6438	5
Jumper comb, 16-pin, 6 A	red	716439	LOCC Box BKB 7-6440	5
Jumper comb, 16-pin, 6 A	blue	716440	LOCC Box BKR 7-6439	5
Tag holder (quantity 200)	white (5×5 mm)	716431	LOCC Box BZW 7-6431	1
Tag holder (quantity 200)	red (5×5 mm)	716432	LOCC Box BZR 7-6432	1
Tag holder (quantity 200)	blue (5×5 mm)	716433	LOCC Box BZB 7-6433	1
Tag holder (quantity 200)	yellow (5×5 mm)	716434	LOCC Box BZG 7-6434	1
Tag holder (quantity 120)	white (12×6 mm)	716441	LOCC Box BZW 7-6441	1
Tag holder	white (39.3×5 mm)	716443	LOCC Box BZW 7-6443	20
Cover for tag holder 716443	transparent	716444	LOCC Box-BAD 7-6444	20
A4 label sheets (quantity 240)	white	716445	LOCC Box-LEB 7-6445	10
Tag holder (quantity 50), printing 1–50	white	716446	LOCC Box BZW 7-6446	1
Copper rail, 1 m		716426	LOCC Box CU 7-6426	1
CU rail cover, 1 m		716427	LOCC Box AD 7-6427	1

Load monitoring • Microcompact LOCC-Box-Net

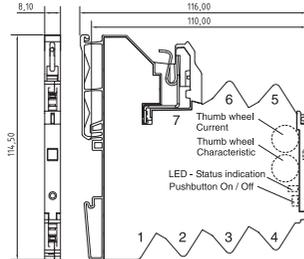
Electronic load monitoring up to DC 10 A

Single-channel design, Adjustable current range: DC 1 A – 10 A

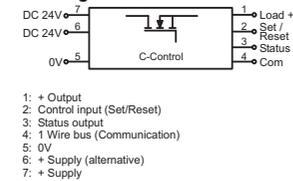
Adjustable characteristics, fast, medium-speed, slow 1, -2, -3



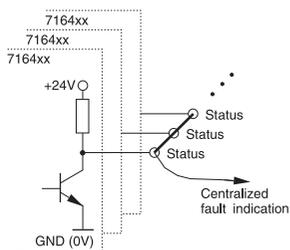
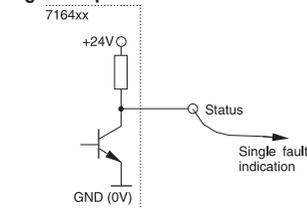
Dimensions



PIN assignment



Signal output



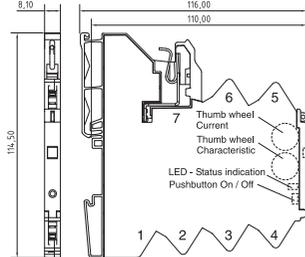
Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716403	LOCC-Box-FB 7-6403	1
Input				
LOCC-Box-FB 7-6403				
Nominal voltage	DC 12 / 24 V			
Operation voltage range	DC 10 V – 32 V			
Rated current	DC 10 A			
Supply current	DC 40 A over Cu-rails 10 × 3 mm			
Reverse voltage protection	internal electronics			
Termination	screwless disconnect slide			
Control input (Set / Reset)				
Signal level	DC 12 / 24 V (EN 61131)			
OFF	Low level (falling edge)			
ON	High level (rising edge)			
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 (1), middle (2), slow 1 (3), slow 2 (4), slow 3 (5), adjustable via switch			
Signal output				
Signal level	DC 24 V: operating mode, no error, DC 0 V: error, output switched off			
Switching element	Transistor, collector with pull-up resistance			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, 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	cULus			
Standards	EN 60950-1; EN 61131-1,2; EN 61000; EN 60947-4-1; EN 55022			
Accessories	Colour	Article number	Type	PU
0 V collective terminal		716420	LOCC Box-SK 7-6420	2
Supply terminal with cutout for copper rail to increase current		716421	LOCC Box-EKL 7-6421	2
Distance terminal without contact		716422	LOCC Box-DKL 7-6422	2
LOCC Box empty housing without terminal		716424	LOCC Box-DY 7-6424	2
Supply kit (supply and end terminals)		716425	LOCC Box ES 7-6425	1
Jumper comb, 8-pin, 6 A	white	716428	LOCC Box BKW 7-6428	5
Jumper comb, 8-pin, 6 A	red	716429	LOCC Box BKR 7-6429	5
Jumper comb, 8-pin, 6 A	blue	716430	LOCC Box BKB 7-6430	5
Jumper comb, 16-pin, 6 A	white	716438	LOCC Box BKW 7-6438	5
Jumper comb, 16-pin, 6 A	red	716439	LOCC Box BKB 7-6440	5
Jumper comb, 16-pin, 6 A	blue	716440	LOCC Box BKR 7-6439	5
Tag holder (quantity 200)	white (5×5 mm)	716431	LOCC Box BZW 7-6431	1
Tag holder (quantity 200)	red (5×5 mm)	716432	LOCC Box BZR 7-6432	1
Tag holder (quantity 200)	blue (5×5 mm)	716433	LOCC Box BZB 7-6433	1
Tag holder (quantity 200)	yellow (5×5 mm)	716434	LOCC Box BZG 7-6434	1
Tag holder (quantity 120)	white (12×6 mm)	716441	LOCC Box BZW 7-6441	1
Tag holder	white (39.3×5 mm)	716443	LOCC Box BZW 7-6443	20
Cover for tag holder 716443	transparent	716444	LOCC Box-BAD 7-6444	20
A4 label sheets (quantity 240)	white	716445	LOCC Box-LEB 7-6445	10
Tag holder (quantity 50), printing 1–50	white	716446	LOCC Box BZW 7-6446	1
Copper rail, 1 m		716426	LOCC Box CU 7-6426	1
CU rail cover, 1 m		716427	LOCC Box AD 7-6427	1

Load monitoring • Microcompact LOCC-Box-Net

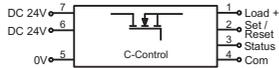
Electronic load monitoring up to DC 10 A
 Single-channel design, Adjustable current range: DC 1 A – 10 A
 Adjustable characteristics, fast, medium-speed, slow 1, -2, -3



Dimensions

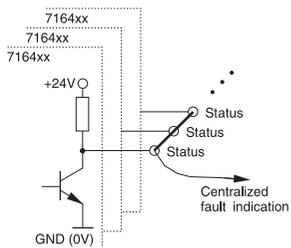
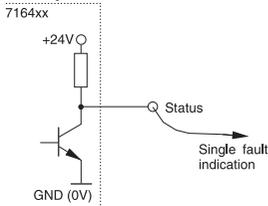


PIN assignment



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

Signal output



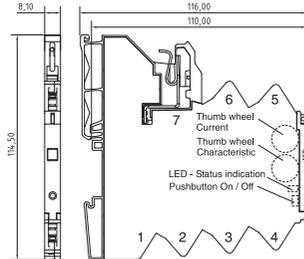
Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716404	LOCC-Box-FB 7-6404	1
Input				
LOCC-Box-FB 7-6404				
Nominal voltage	DC 12 / 24 V			
Operation voltage range	DC 10 V – 32 V			
Rated current	DC 10 A			
Supply current	DC 40 A over Cu-rails 10 × 3 mm			
Reverse voltage protection	internal electronics			
Termination	screwless disconnect slide			
Control input (Set / Reset)				
Signal level	DC 12 / 24 V (EN 61131)			
OFF	Low level (falling edge)			
ON	High level (rising edge)			
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 (1), middle (2), slow 1 (3), slow 2 (4), slow 3 (5), adjustable via switch			
Signal output				
Signal level	DC 24 V: operating mode, no error, DC 0 V: error, output switched off			
Switching element	Transistor, collector with pull-up resistance			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, 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	cULus			
Standards	EN 60950-1; EN 61131-1,2; EN 61000; EN 60947-4-1; EN 55022			
Accessories				
	Colour	Article number	Type	PU
0 V collective terminal		716420	LOCC Box-SK 7-6420	2
Supply terminal with cutout for copper rail to increase current		716421	LOCC Box-EKL 7-6421	2
Distance terminal without contact		716422	LOCC Box-DKL 7-6422	2
LOCC Box empty housing without terminal		716424	LOCC Box-DY 7-6424	2
Supply kit (supply and end terminals)		716425	LOCC Box ES 7-6425	1
Jumper comb, 8-pin, 6 A	white	716428	LOCC Box BKW 7-6428	5
Jumper comb, 8-pin, 6 A	red	716429	LOCC Box BKR 7-6429	5
Jumper comb, 8-pin, 6 A	blue	716430	LOCC Box BKB 7-6430	5
Jumper comb, 16-pin, 6 A	white	716438	LOCC Box BKW 7-6438	5
Jumper comb, 16-pin, 6 A	red	716439	LOCC Box BKB 7-6440	5
Jumper comb, 16-pin, 6 A	blue	716440	LOCC Box BKR 7-6439	5
Tag holder (quantity 200)	white (5×5 mm)	716431	LOCC Box BZW 7-6431	1
Tag holder (quantity 200)	red (5×5 mm)	716432	LOCC Box BZR 7-6432	1
Tag holder (quantity 200)	blue (5×5 mm)	716433	LOCC Box BZB 7-6433	1
Tag holder (quantity 200)	yellow (5×5 mm)	716434	LOCC Box BZG 7-6434	1
Tag holder (quantity 120)	white (12×6 mm)	716441	LOCC Box BZW 7-6441	1
Tag holder	white (39.3×5 mm)	716443	LOCC Box BZW 7-6443	20
Cover for tag holder 716443	transparent	716444	LOCC Box-BAD 7-6444	20
A4 label sheets (quantity 240)	white	716445	LOCC Box-LEB 7-6445	10
Tag holder (quantity 50), printing 1–50	white	716446	LOCC Box BZW 7-6446	1
Copper rail, 1 m		716426	LOCC Box CU 7-6426	1
CU rail cover, 1 m		716427	LOCC Box AD 7-6427	1
Comments				
The triggered output can only be acknowledged via the device switch.				

Load monitoring • Microcompact LOCC-Box-Net

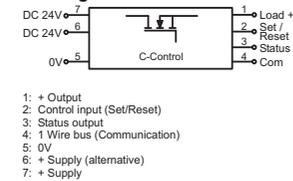
Electronic load monitoring up to DC 10 A, with communication
 Single-channel design, programmable, Adjustable current range: DC 1 A – 10 A
 Adjustable characteristics, fast, medium-speed, slow 1, -2, -3



Dimensions

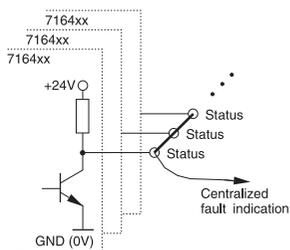
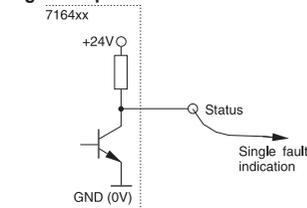


PIN assignment



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

Signal output



Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716410	LOCC-Box-Net 7-6410	1
	DC 12 / 24 V	716410.0050	LOCC-Box-Net 7-6410	50

Input			
LOCC-Box-Net 7-6410			
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 rail 10 × 3 mm		
Reverse voltage protection	internal electronics		
Termination	screwless disconnect slide		

Control input (Set / Reset)			
Signal level	DC 12 / 24 V (EN 61131)		
OFF	Pulse with falling edge >100 ms, <800 ms		
ON	Pulse with falling edge > 1 s		

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 (1), medium-slow (2), slow 1 (3), slow 2 (4), slow 3 (5), programmable (10)		

Signal output			
Signal level	DC 12/24 V: Operating voltage present, no error; DC 0 V: error, output switched off, programmable		
Switching element	Transistor, collector with pull-up resistance		

General			
Housing material	PA 6.6 (UL 94-V0; NFF I2, 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	cULus		
Standards	EN 60950-1; EN 61131-1,2; EN 61000; EN 60947-4-1; EN 55022		

Accessories	Colour	Article number	Type	PU
0 V collective terminal		716420	LOCC Box-SK 7-6420	2
Supply terminal with cutout for copper rail to increase current		716421	LOCC Box-EKL 7-6421	2
Distance terminal without contact		716422	LOCC Box-DKL 7-6422	2
LOCC Box empty housing without terminal		716424	LOCC Box-DY 7-6424	2
Supply kit (supply and end terminals)		716425	LOCC Box ES 7-6425	1
Jumper comb, 8-pin, 6 A	white	716428	LOCC Box BKW 7-6428	5
Jumper comb, 8-pin, 6 A	red	716429	LOCC Box BKR 7-6429	5
Jumper comb, 8-pin, 6 A	blue	716430	LOCC Box BKB 7-6430	5
Jumper comb, 16-pin, 6 A	white	716438	LOCC Box BKW 7-6438	5
Jumper comb, 16-pin, 6 A	red	716439	LOCC Box BKB 7-6440	5
Jumper comb, 16-pin, 6 A	blue	716440	LOCC Box BKR 7-6439	5
Tag holder (quantity 200)	white (5×5 mm)	716431	LOCC Box BZW 7-6431	1
Tag holder (quantity 200)	red (5×5 mm)	716432	LOCC Box BZR 7-6432	1
Tag holder (quantity 200)	blue (5×5 mm)	716433	LOCC Box BZB 7-6433	1
Tag holder (quantity 200)	yellow (5×5 mm)	716434	LOCC Box BZG 7-6434	1
Tag holder (quantity 120)	white (12×6 mm)	716441	LOCC Box BZW 7-6441	1
Tag holder	white (39.3×5 mm)	716443	LOCC Box BZW 7-6443	20
Cover for tag holder 716443	transparent	716444	LOCC Box-BAD 7-6444	20
A4 label sheets (quantity 240)	white	716445	LOCC Box-LEB 7-6445	10
Tag holder (quantity 50), printing 1–50	white	716446	LOCC Box BZW 7-6446	1
Copper rail, 1 m		716426	LOCC Box CU 7-6426	1
CU rail cover, 1 m		716427	LOCC Box AD 7-6427	1

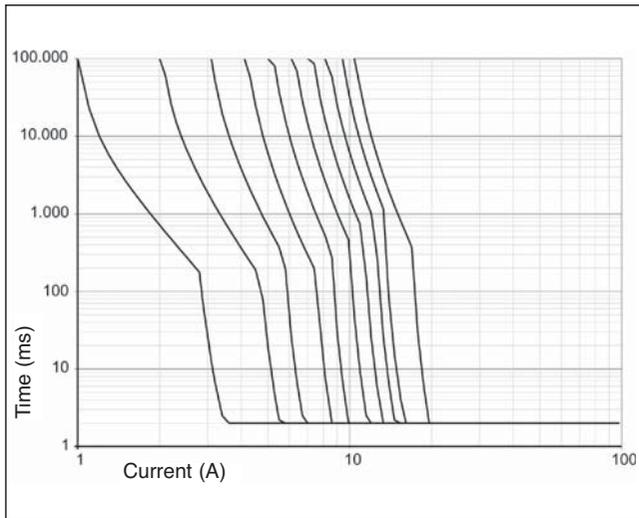
LOCC-Box / LOCC-Box-Net • Characteristic Curves

All device variants incorporate the same characteristics

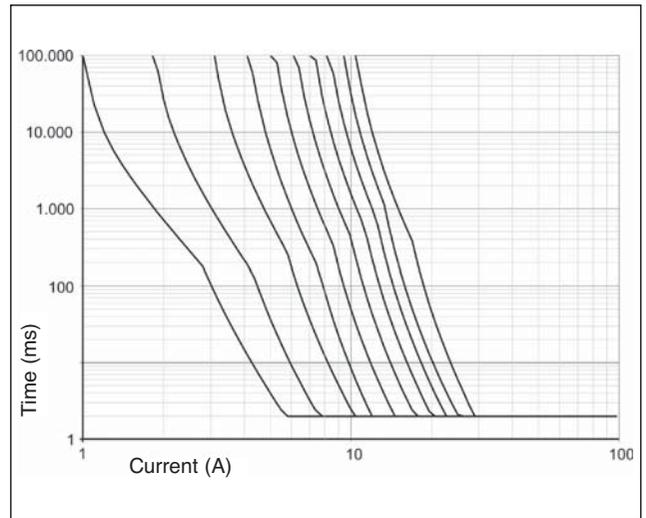
Expandable

Customer specific characteristics - parameterisable with LOCC-Box-Net

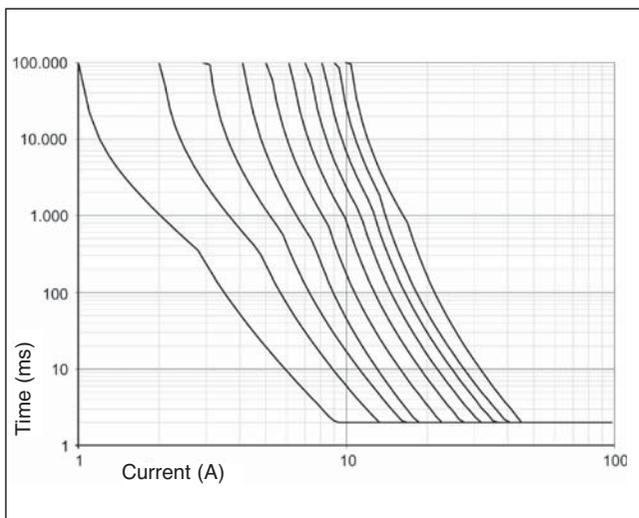
Switch position 1: Characteristic fast



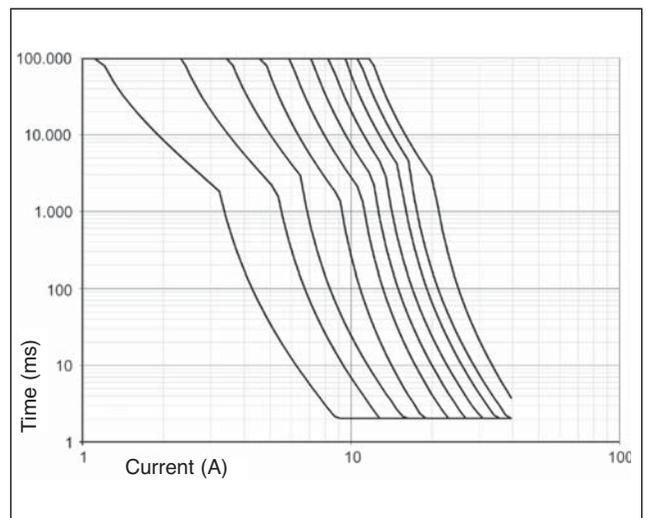
Switch position 2: Characteristic medium



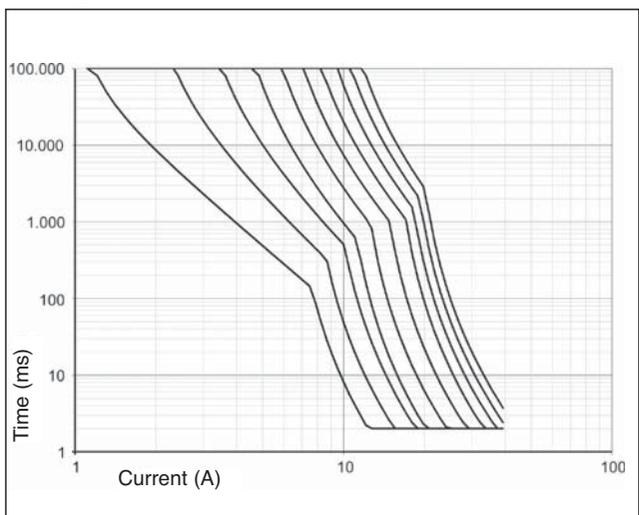
Switch position 3: Characteristic slow-1



Switch position 4: Characteristic slow-2



Switch position 5: Characteristic slow-3



Load monitoring • Microcompact gateway

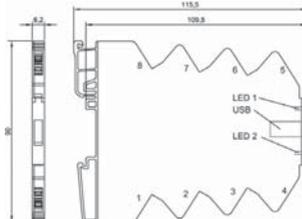
Gateway for LOCC-Box-Net (716410)

Input: LOCCbus (LIN)

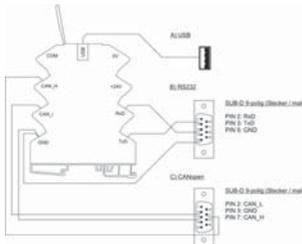
Output: USB, RS 232, CANopen



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716459	LOCC-Box-GW 7-6459	1
Input				
LOCC-Box-GW 7-6459				
Bus system	LOCCbus, basic LIN			
Access method	Single-Master - Multiple Slave			
Bus technology	Line			
Physical level	1-wire			
Participants	40, max. 254			
Bus length	max. 40 m			
Transfer rate	9600 Baud			
Data rate	8 Bit + fixed parity			
Transfer protocol	Modified multi-drop			
Output				
USB				
Bus system	USB 2.0 Full-Speed			
Transfer rate	12 Mbit/s			
RS232				
Bus system	RS232			
Transfer rate	600 – 11500 bit/s			
CANopen				
Bus system	CANopen			
Transfer rate	10 – 1000 kbit/s			
General				
Nominal voltage	DC 12 / 24 V			
Operation voltage range	DC 10 V – 26.4 V			
Rated current	max. 50 mA			
Reverse voltage protection	Yes			
Status Indication	LED 1 green/red: USB, RS232, Firmware; LED 2 green/red: CANopen			
Insulation voltage	1.0 kV			
Housing material	PA 6.6 (UL 94-V0; NFF I2, F2)			
Field installation	rail TS 35 (EN 50022)			
Protection class	IP 20			
Installation position	Optional			
Termination	Spring terminal : 0.14 - 2.5 mm ² (with AE 1.5 mm ²)			
Operation temperature range	-20 °C – 60 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d) in mm	6.2 × 90.0 × 115.0			
Weight (kg/piece)	0.060			
Approvals	CE			
Standards	EN 60950-1, EN 61131-1, -2, EN 60898, EN 60947-4-1, EN 50081			
Accessories				
Tag holder 4×11 mm	white	681313	BZT 0411	100
Isolation plate		760809	TP 7-0809	5
Labels for laser printer A4 un-punched		681031	LEB - A4	1

Load monitoring • Gateway

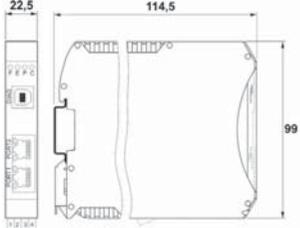
Gateway for LOCC-Box-Net (716410)

Input: LOCCbus (LIN)

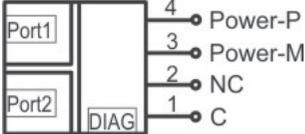
Output: USB, PROFINET-IO



Dimensions

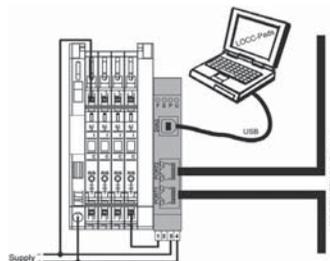


PIN assignment



Description	Part-No.	Type	PU
Spring terminal			
Nominal voltage	DC 12 / 24 V	716457	LOCC-Box-GWPN 0-6457
Input			
Bus system	LOCCbus, basic LIN		
Access method	Single-Master - Multiple Slave		
Bus technology	Line		
Physical level	1-wire		
Participants	typ. 40, max. 100		
Bus length	max. 40 m		
Transfer rate	9600 Baud		
Data rate	8 Bit + fixed parity (Bit 9)		
Transfer protocol	Modified multi-drop		
Output			
		USB	PROFINET-IO
Bus system	USB 2.0 Full-Speed	PROFINET-IO	
Transfer rate	12 Mbit/s	100 bit/s (IEE 802.3)	
Interface	USB connector, Type B	Port_1, Port_2, 2 × RJ-45 female with galvanic isolation and LEDs	
General			
Nominal voltage	DC 12 / 24 V		
Operation voltage range	10 – 32 V		
Rated current	120 mA @ 24 V		
Reverse voltage protection	Yes		
Status Indication	LED F, yellow - flashing: identification prompt (PROFINET) LED E, red - flashing: no connection (PROFINET) LED P, green - flashing: operating voltage is connected (POWER) LED C, green - flashing: data traffic with LOCC Box Net modules (LOCCbus) Link: yellow - 100Base/T-connection Activity green - valid connection, blanking: data traffic		
Insulation voltage	1.5 kV		
Housing material	PA		
Field installation	Snaps on to TS 35 rail (EN 50022)		
Protection class	IP 20		
Installation position	Optional		
Termination	Spring terminal : 0.14 - 2.5 mm ² (with AE 1.5 mm ²)		
Relative humidity	max. 90 % non-condensed		
Operation temperature range	-20 °C – 60 °C		
Storage temperature range	-40 – 85 °C		
Dimensions (w × h × d) in mm	22.5 × 99.0 × 114.5		
Weight (kg/piece)	0.130		
Approvals	CE		
Standards	EN 60950-1, EN 61131-1, -2, EN 60898, EN 60947-4-1, EN 50081		
Comments			
Screw terminal on request			

Use



Load monitoring • Gateway

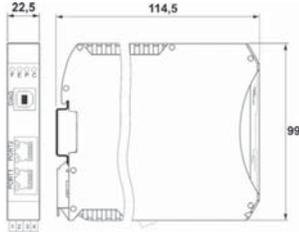
Gateway for LOCC-Box-Net (716410)

Input: LOCCbus (LIN)

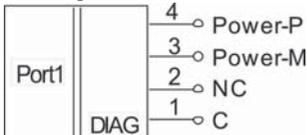
Output: USB, PROFIBUS-DP



Dimensions

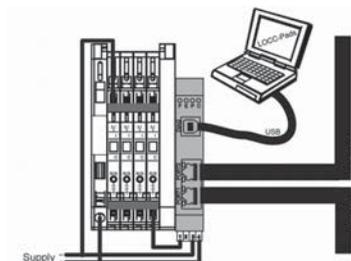


PIN assignment



Description	Part-No.	Type	PU	
Spring terminal				
Nominal voltage	DC 12 / 24 V	716458	LOCC-Box-GW/PB 0-6458	1
Input				
Bus system	LOCCbus, basic LIN			
Access method	Single-Master - Multiple Slave			
Bus technology	Line			
Physical level	1-wire			
Participants	typ. 40, max. 84			
Bus length	max. 40 m			
Transfer rate	9600 Baud			
Data rate	8 Bit + fixed parity (Bit 9)			
Transfer protocol	Modified multi-drop			
Output				
		USB	PROFIBUS-DP	
Bus system	USB 2.0 Full-Speed	PROFIBUS-DP		
Transfer rate	12 Mbit/s	max. 12 Mbit/s		
Interface	USB connector, Type B	Port_1, SUB-D 9pin with galvanic isolation		
General				
Nominal voltage	DC 12 / 24 V			
Operation voltage range	10 – 32 V			
Rated current	120 mA @ 24 V			
Reverse voltage protection	Yes			
Status Indication	LED D, green - on: data exchange via PROFIBUS-DP LED E, red - different flash codes for diagnosis of PROFIBUS-DP faults LED P, green - on: operating voltage is supplied (POWER) LED C, green - flashing: data traffic with LOCC-Box-Net modules (LOCCbus)			
Insulation voltage	1.5 kV			
Housing material	PA 6.6 (UL 94 V0)			
Field installation	Snaps on to TS 35 rail (EN 50022)			
Protection class	IP 20			
Installation position	Optional			
Termination	Spring terminal : 0.14 - 2.5 mm ² (with AE 1.5 mm ²)			
Relative humidity	max. 90 % non-condensed			
Operation temperature range	-20 °C – 60 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d) in mm	22.5 × 99.0 × 114.5			
Weight (kg/piece)	0.130			
Approvals	CE			
Standards	EN 60950-1, EN 61131-1, EN 61000, EN 60947-4-1, EN 50016			
Comments				
Screw terminal on request				

Use



Load monitoring • Gateway

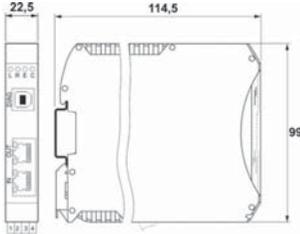
Gateway for LOCC-Box-Net (716410)

Input: LOCCbus (LIN)

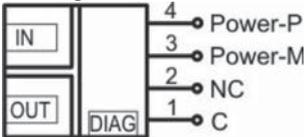
Output: USB, EtherCAT



Dimensions

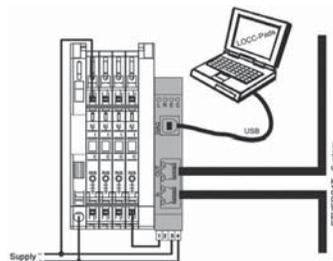


PIN assignment



Description	Part-No.	Type	PU
Spring terminal			
Nominal voltage	DC 12 / 24 V	716456	LOCC-Box-GWEC 0-6456
1			
Input			
Bus system	LOCCbus, basic LIN		
Access method	Single-Master - Multiple Slave		
Bus technology	Line		
Physical level	1-wire		
Participants	typ. 40, max. 64		
Bus length	max. 40 m		
Transfer rate	9600 Baud		
Data rate	8 Bit + fixed parity (Bit 9)		
Transfer protocol	Modified multi-drop		
Output			
	USB	EtherCAT	
Bus system	USB 2.0 Full-Speed	EtherCAT	
Transfer rate	12 Mbit/s	100 bit/s (IEE 802.3)	
Interface	USB connector, Type B	IN, OUT, 2 × RJ-45 female with galvanic isolation and LEDs	
General			
Nominal voltage	DC 12 / 24 V		
Operation voltage range	10 – 32 V		
Rated current	55 mA @ 24 V		
Reverse voltage protection	Yes		
Status Indication	LED L, red - flashing: EEPROM error, EEPROM not loaded LED R, green - lit: ECT Run LED E, green - lit: ECT error LED C, green - flashing: data traffic with LOCC Box-Net modules (LOCCbus) link/activity: green - 100Base/T-connection, flashes with EtherCAT traffic Connect: yellow - speed LED, 100Base/T-connection		
Insulation voltage	1.5 kV		
Housing material	PA		
Field installation	Snaps on to TS 35 rail (EN 50022)		
Protection class	IP 20		
Installation position	Optional		
Termination	Spring terminal : 0.14 - 2.5 mm ² (with AE 1.5 mm ²)		
Relative humidity	max. 90 % non-condensed		
Operation temperature range	-20 °C – 60 °C		
Storage temperature range	-40 – 85 °C		
Dimensions (w × h × d) in mm	22.5 × 99.0 × 114.5		
Weight (kg/piece)	0.130		
Approvals	CE		
Standards	EN 60950-1, EN 61131-1, -2, EN 60898, EN 60947-4-1, EN 50081		
Comments			
Screw terminal on request			

Use

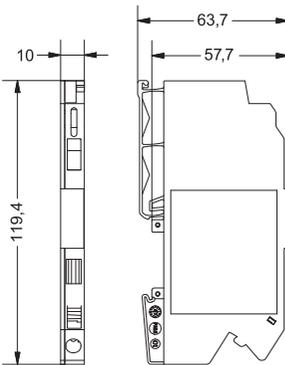


Load monitoring • Accessories

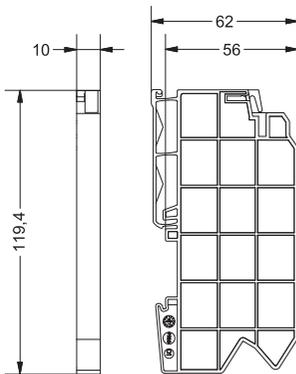
LOCC-Box supply set consisting of supply terminal and end block maximum total current 40 A



Dimensions
Supply terminal



End block



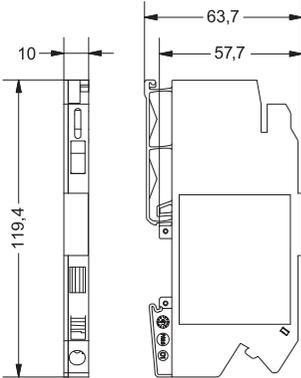
Description	Part-No.	Type	PU	
Nominal voltage	DC 12 / 24 V	716425	LOCC-Box-ES 7-6425	1
Input				
LOCC-Box-ES 7-6425				
Nominal voltage	DC 12 / 24 V			
Rated current	max. DC 40 A			
Reverse voltage protection	No			
Termination	Spring terminal : 0.33 – 10 mm ² (AWG 22–8) conductor connection cross section, single wire (solid): max. 10 mm ² conductor connection cross section, fine wire: max. 6 mm ² conductor connection cross section, fine wire with AEH: max. 6 mm ²			
Length of stripped insulation	12 mm			
Output				
Nominal voltage	DC 12 / 24 V			
Output current	max. DC 40 A			
Termination	screwless disconnect terminal			
Copper bus bar	3 × 10mm			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, F2)			
Field installation	rail TS 35 (EN 50022)			
Protection class	IP 20			
Installation position	Optional			
Operation temperature range	-25 °C – 60 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d) in mm	10.0 × 119.4 × 63.7			
Weight (kg/piece)	0.035			
Approvals	cURus			
Standards	-			

Load monitoring • Accessories

LOCC-Box supply terminal Additional supply terminal for increased current maximum total current 40 A



Dimensions



Use



716421

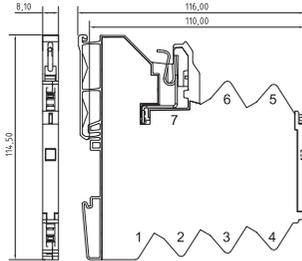
Description	Part-No.	Type	PU	
Nominal voltage	DC 12 / 24 V	716421	LOCC-Box-EKL 7-6421	2
Input				
LOCC-Box-EKL 7-6421				
Nominal voltage	DC 12 / 24 V			
Rated current	max. DC 40 A			
Reverse voltage protection	No			
Termination	Spring terminal : 0.33 – 10 mm ² (AWG 22–8) conductor connection cross section, single wire (solid): max. 10 mm ² conductor connection cross section, fine wire: max. 6 mm ² conductor connection cross section, fine wire with AEH: max. 6 mm ²			
Length of stripped insulation	12 mm			
Output				
Nominal voltage	DC 12 / 24 V			
Output current	max. DC 40 A			
Termination	screwless disconnect terminal			
Copper bus bar	3 × 10mm			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, F2)			
Field installation	rail TS 35 (EN 50022)			
Protection class	IP 20			
Installation position	Optional			
Operation temperature range	-25 °C – 60 °C			
Storage temperature range	-40 – 85 °C			
Dimensions (w × h × d) in mm	10.0 × 119.4 × 63.7			
Weight (kg/piece)	0.035			
Approvals	cURus			
Standards	-			

Load monitoring • Accessories

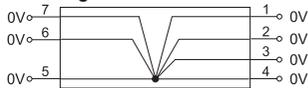
0V Collective Terminal Single-channel design maximum total current 40 A



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Nominal voltage	DC 12 / 24 V	716420	LOCC-Box-SK 7-6420	2
Input		LOCC-Box-SK 7-6420		
Nominal voltage	DC 12 / 24 V			
Rated current	6× max. DC 10 A			
Reverse voltage protection	No			
Termination	Spring terminal: 0.25–2.5 mm ²			
Connection	1 – 6			
Output				
Output current	max. DC 40 A			
Voltage drop	–			
Termination	screwless disconnect terminal			
Connection	7			
General				
Housing material	PA 6.6 (UL 94-V0; NFF I2, F2)			
Field installation	rail TS 35 (EN 50022)			
Protection class	IP 20			
Installation position	Optional			
Operation temperature range	–25 °C – 60 °C			
Storage temperature range	–40 – 85 °C			
Dimensions (w × h × d) in mm	8.1 × 114.5 × 116.0			
Weight (kg/piece)	0.700			
Approvals	–			
Standards	–			



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