

Technical data sheet

Load monitoring · LCOS CCI

Electronic load monitoring up to DC 10 A, with communication via field bus
1-channel version, two-pole switching, DC 1 A – DC 10 A, adjustable characteristic
Fault messages: single/90% message, Remote Control input



Identification

Type LCOS-CC-I-1K-2P-DC24V
Part No. [773100.1211](#)

Product version

Hardware revision **1.0**
Software version 1.4
Datasheet version 07

Input

Type of function 1-channel 2 pin switching
Rated voltage U_N DC 24 V
Operation voltage range DC 20.4–28.8 V
Rated current I_N DC 10 A
Supply current DC 16 A via LCOS Powerbus
Reverse voltage protection Internal electronics

Control input (Set / Reset)

Signal level DC 24 V acc. to EN 61131
OFF Pulse with falling edge >100 ms, <800 ms
ON Pulse with falling edge > 1 s
Isolation voltage 1.5 kV

Communication internal

BUS physics CANopen acc. to ISO 11898-1, 11898-2

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

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Participants	Max. 64 units
BUS topology	Line
Bus length	Max. 25 m
Galvanic isolation	500 V

Output

Switching element	MOSFET and relay (galvanic separation: 500 V)
Output current	Max. DC 10 A
Voltage drop	<170 mV (10 A)
Status display output	LED green: no error, LED green flashing: 90 % utilisation LED red flashing: triggered, LED red: unit off
Switch-on capacity	>10000 µF
Current range	1 A – 10 A (adjustable via switch in 1 A steps)
Characteristic	Fast (1), medium (2), slow 1 (3), slow 2 (4), slow 3 (5), adjustable via switch, see 'characteristic curves'
Power Dissipation	1,1 W

Signal output

Switching element	Relay, N/O contact, AC/DC 250 V, 1 A
Single channel message	Contact closed: error, Contact open: no error
90 % of the rated current I _B	Contact closed: >90 %, Contact open: <90 %

General

Dimensions (w × h × d)	22.5 mm × 144.0 mm × 102.0 mm (including function carrier, without plug-in terminals on the side)
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Mounting	Pluggable On LCOS function carrier 22.5 mm (Accessories) DIN rail mounting (EN 60715)
Installation position	Any
Degree of protection	IP20 (EN 60529)
Climatic conditions	Acc. to EN 60721 Stationary use at weather protected locations
Connection type load side	X1: 8-pin multi-point plug, RM 5.08, RM 5,08, Push-In
Connection type control side	X2: 12-pin multi-point plug, RM 3.5
Connection type	Single wire 0.08 mm ² – 1.5 mm ² / AWG 28–16
Strip length	RM 3.5: 9 mm, RM 5.08: 10 mm
Weight/unit	0.2 kg
PU (units)	1

General ambient conditions

Operation temperature range	0 °C ... +55 °C
Storage temperature range	-40 °C ... +70 °C
Over voltage category	II

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Degree of pollution	2
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	0.7 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

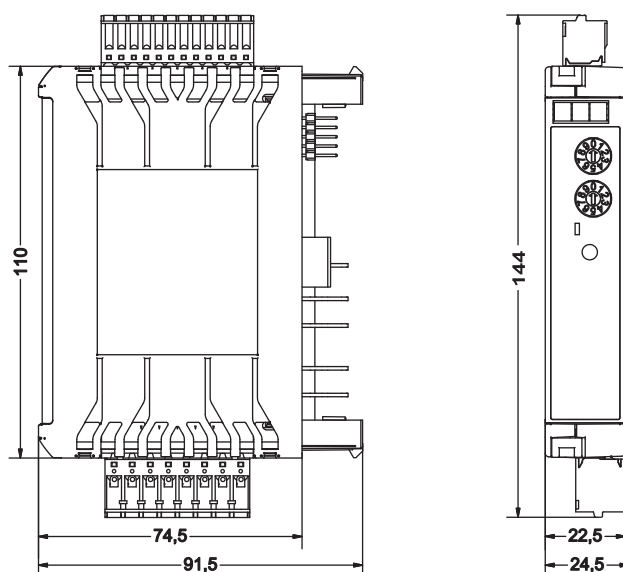
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61000-6-2 EN 61000-6-4 UL 61010-1 UL 61010-2-201 DNV-CG-0339

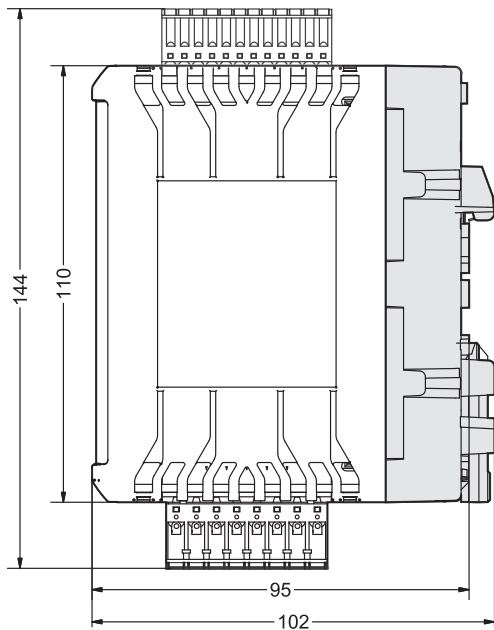
Notes and Comments

Included in the delivery	Plug-in terminals : CS 5.08 and CS 3.50
Not included in the delivery	Function carrier and other accessories

Dimensions



Dimensions



PIN assignment

X3 Powerbus

PIN/ Broches	Signal/ Signal
1	GND
2	GND
3	DC 24V
4	DC 24V

X1

PIN/ PIN / Broches	Signal/ Signal
1	Load +
2	Load +
3	Load -
4	Load -
5	Load +
6	Load +
7	Load -
8	Load -

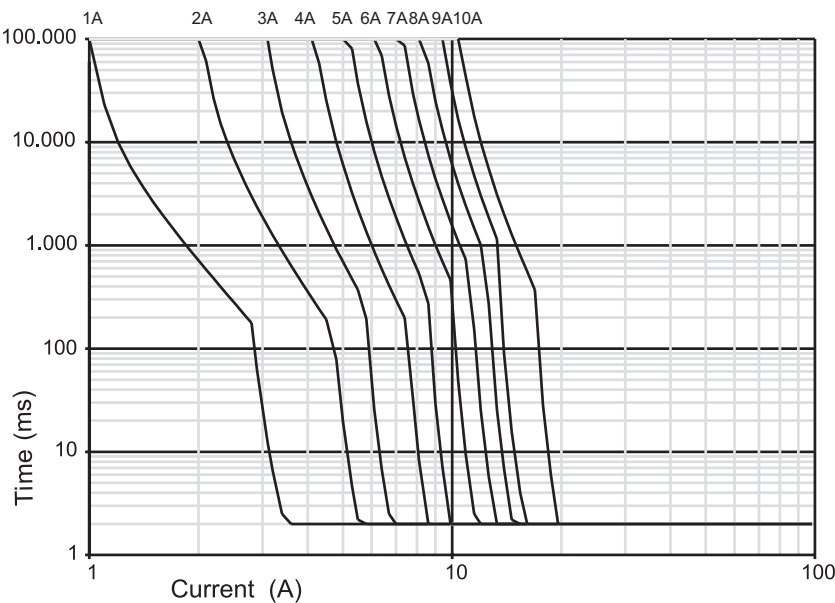
X2

PIN/ Broches	Signal/ Signal
1 & 2	Status + / État +
3	Status - / État -
4 & 5	Status + 90% / État + 90%
6	Status - 90% / État - 90%
7	NC
8	DC 24 V I _{max} = 100 mA
9	GND
10	Remote R/S + / R/S à distance +
11	NC
12	Remote R/S - / R/S à distance -

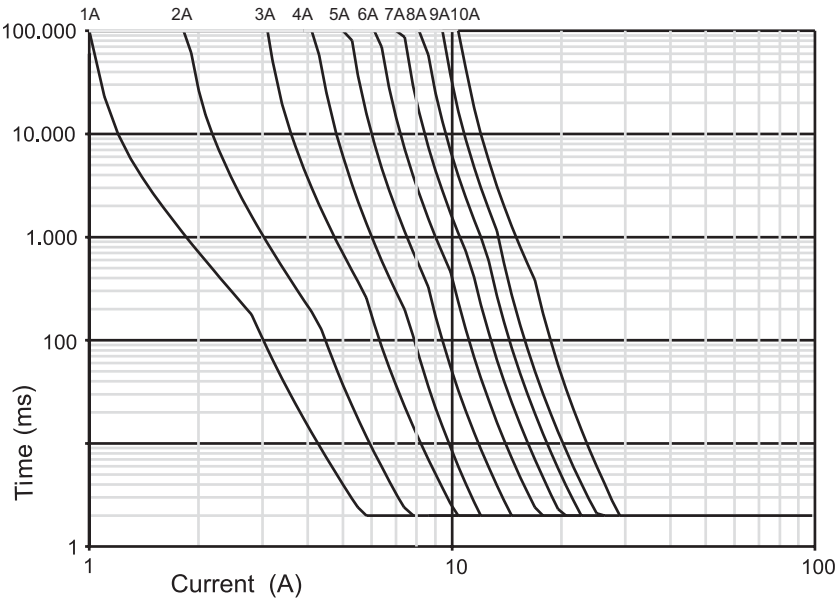
Output

Input

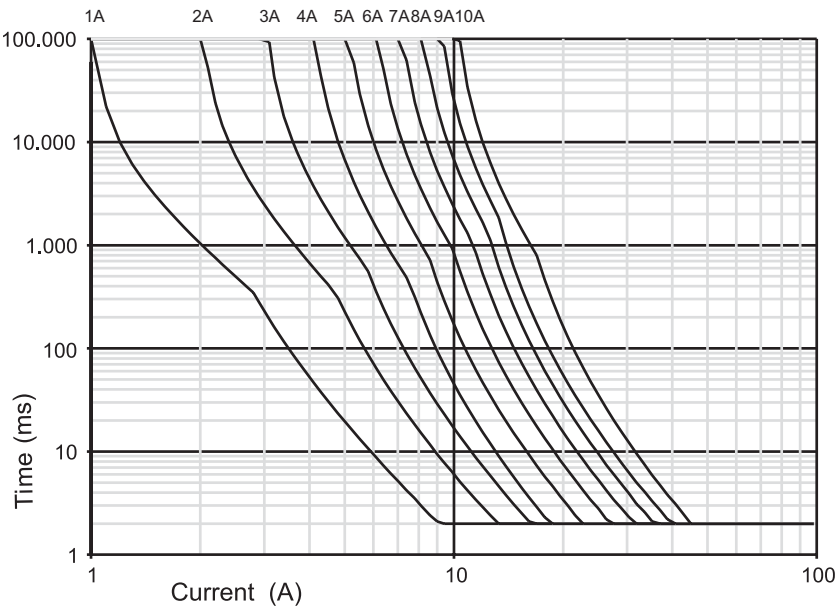
1: Characteristic fast



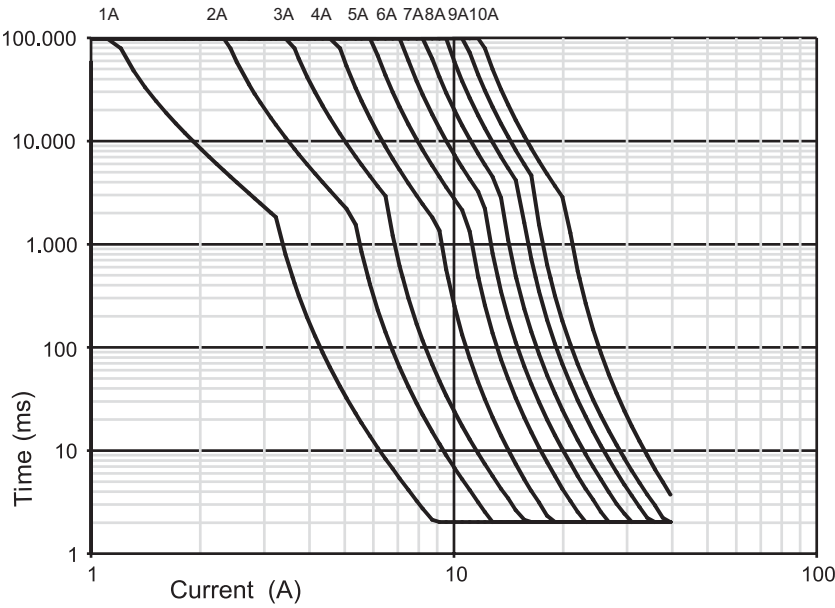
2: Characteristic medium



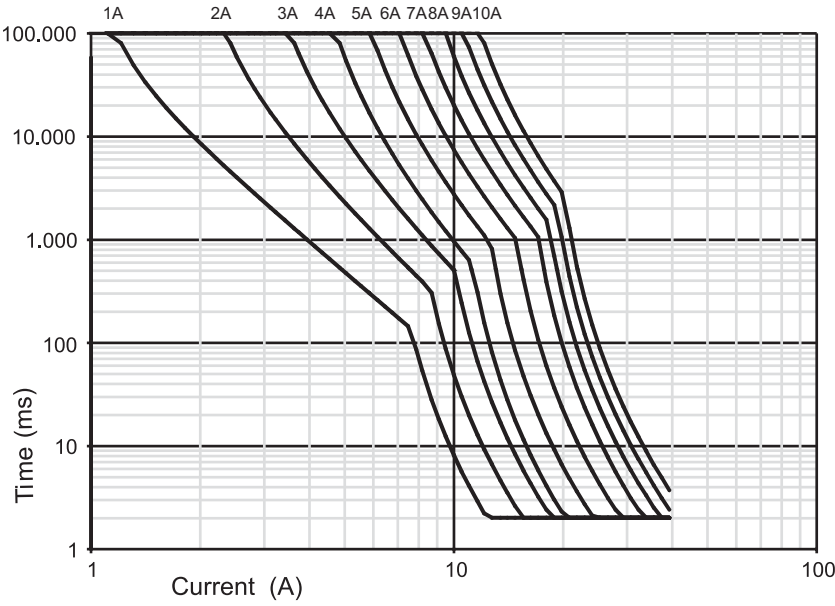
3: Characteristic slow-1



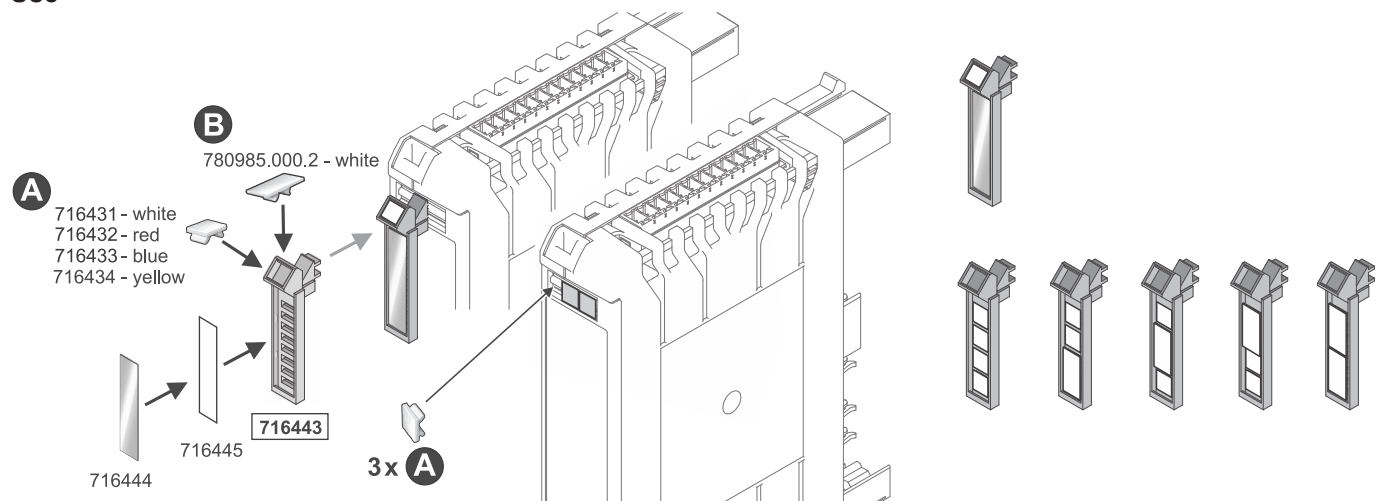
4: Characteristic slow-2



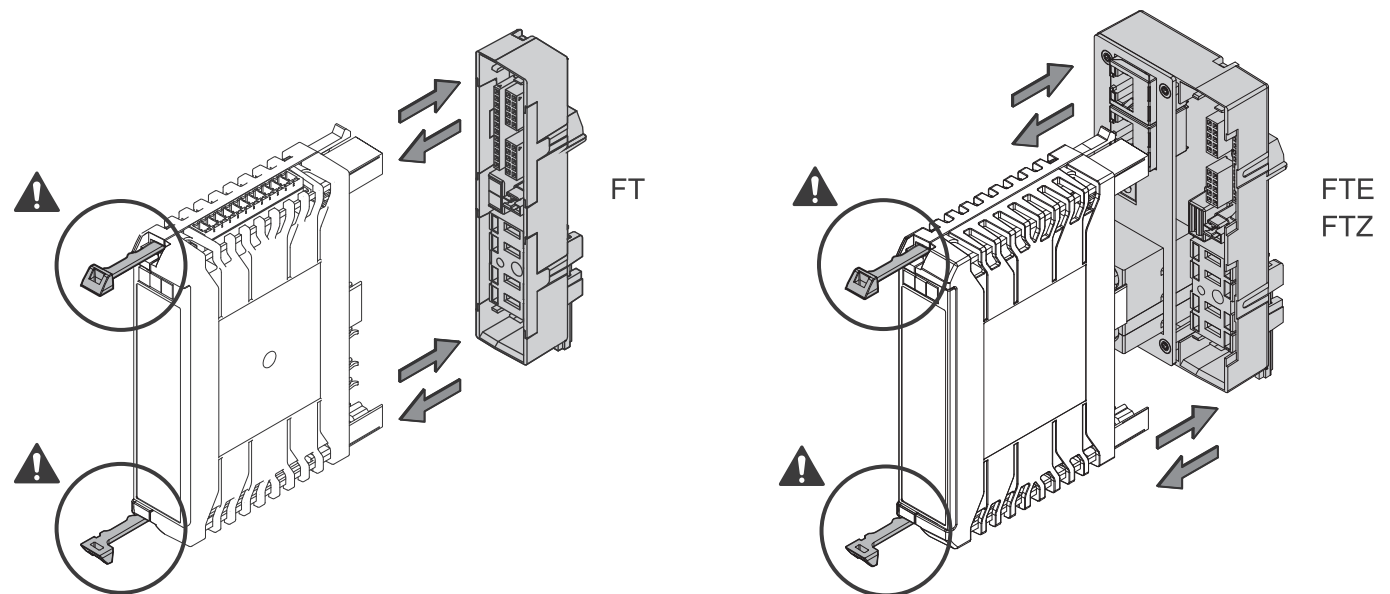
5: Characteristic slow-3



Use



Use



Use

FT, without supply - LCOS function carriers, 22.5 mm - overview

