

Technical data sheet

Load monitoring · LCOS CCI

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



Identification

Type LCOS-CC-I-2K-1P-DC24V
Part No. [773100.2111](#)

Product version

Hardware revision 1.0
Software version 1.4
Datasheet version 05

Input

Type of function 2-channel 1 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

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

Output

Switching element	MOSFET
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	2,2 W

Signal output

Switching element	Transistor, open collector with pull-up resistor
Single channel message	Acc. to IEC 61131-2: High level: no errors, low level: there are errors
90 % of the rated current I_B	Acc. to IEC 61131-2: High level <90 %, low level >90 %
centralised fault signalling	Acc. to IEC 61131-2: High level: no errors, low level: there are errors

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, Push-In
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

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Over voltage category	II
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

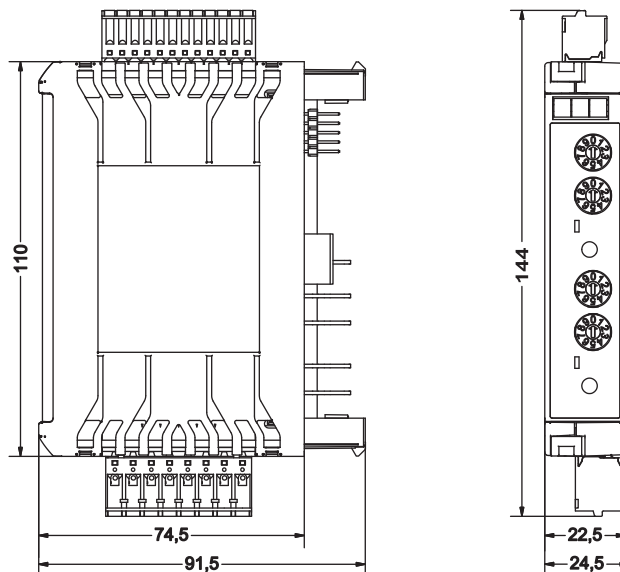
Certifications/Standards

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

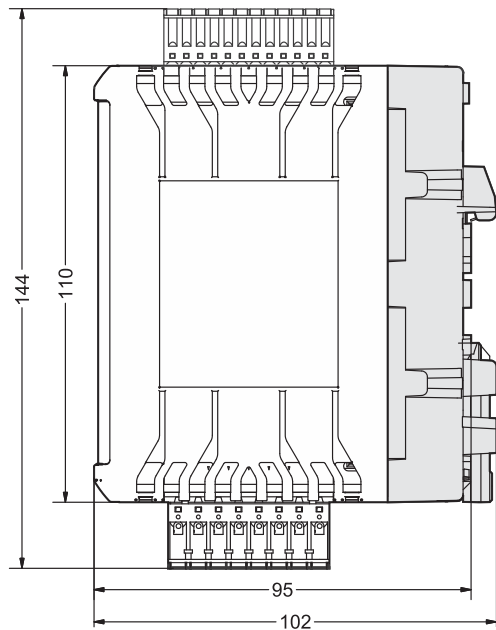
Notes and Comments

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

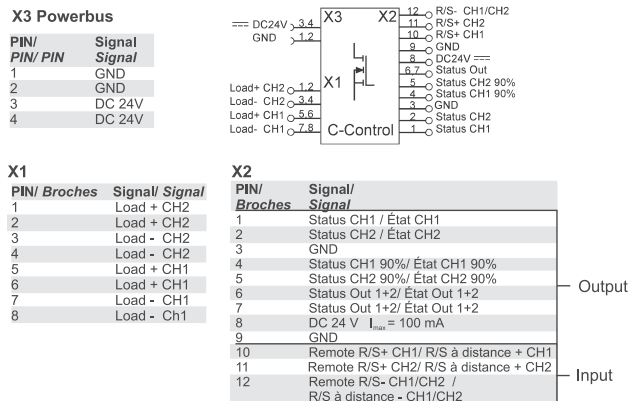
Dimensions



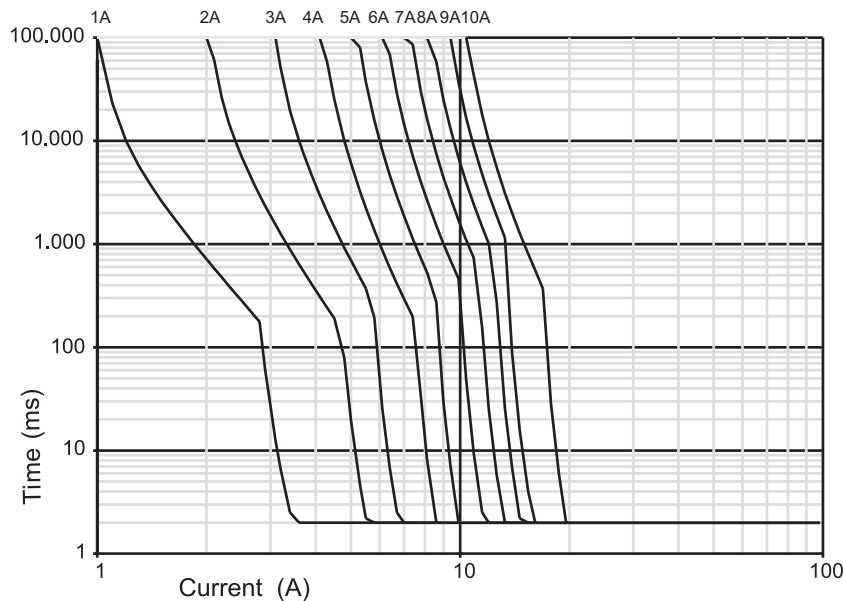
Dimensions



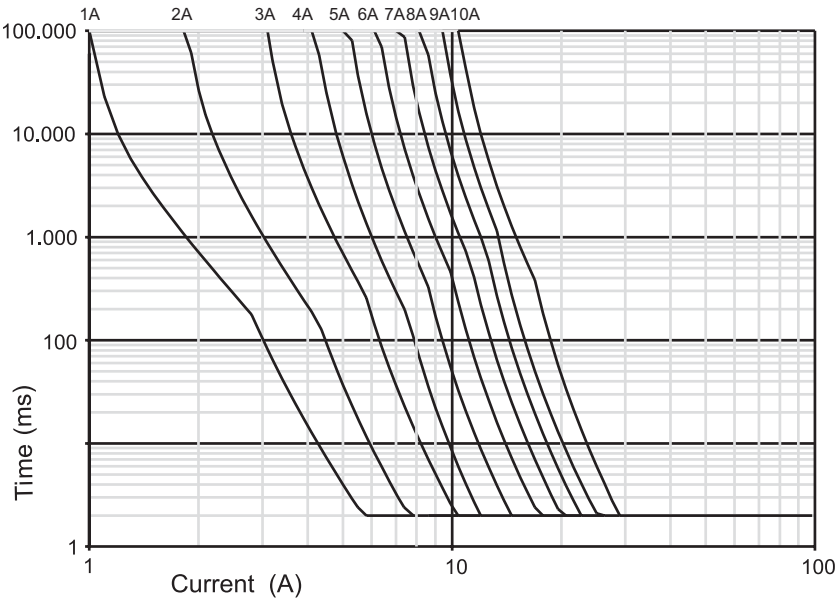
PIN assignment



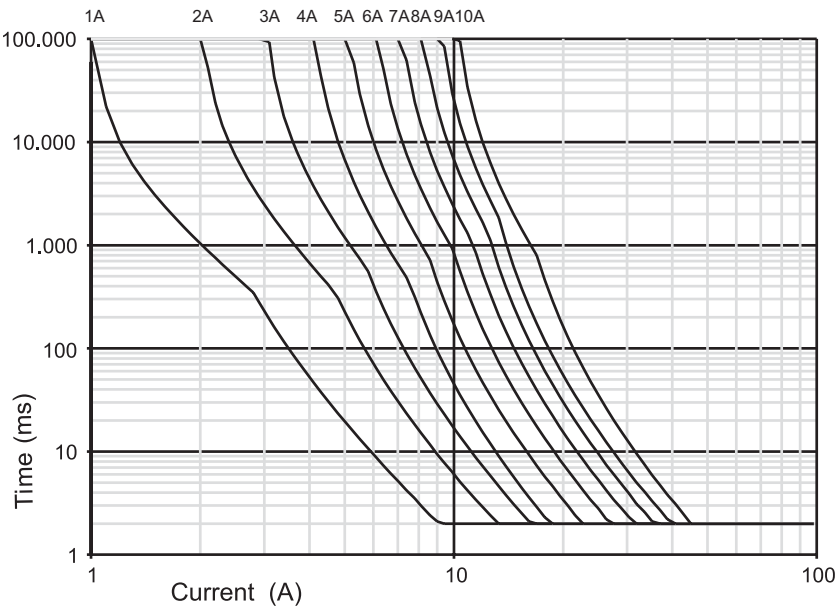
1: Characteristic fast



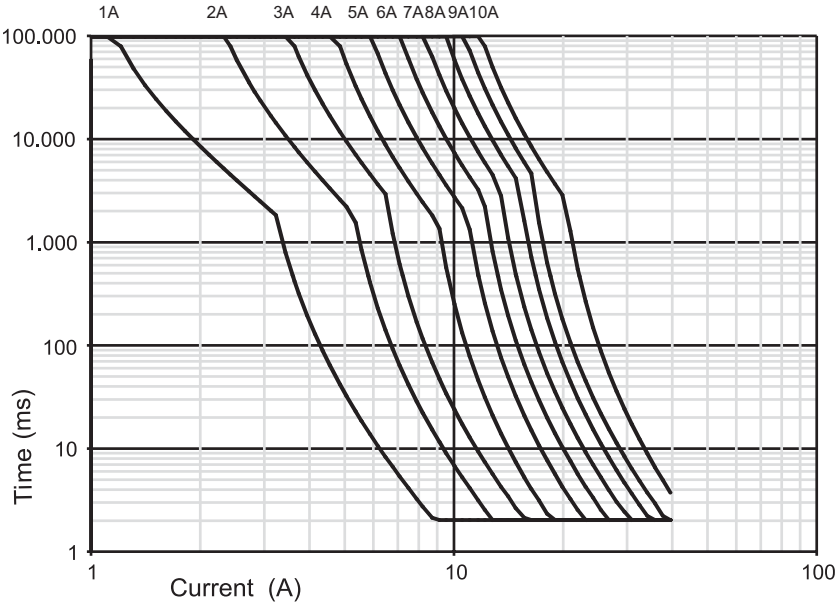
2: Characteristic medium



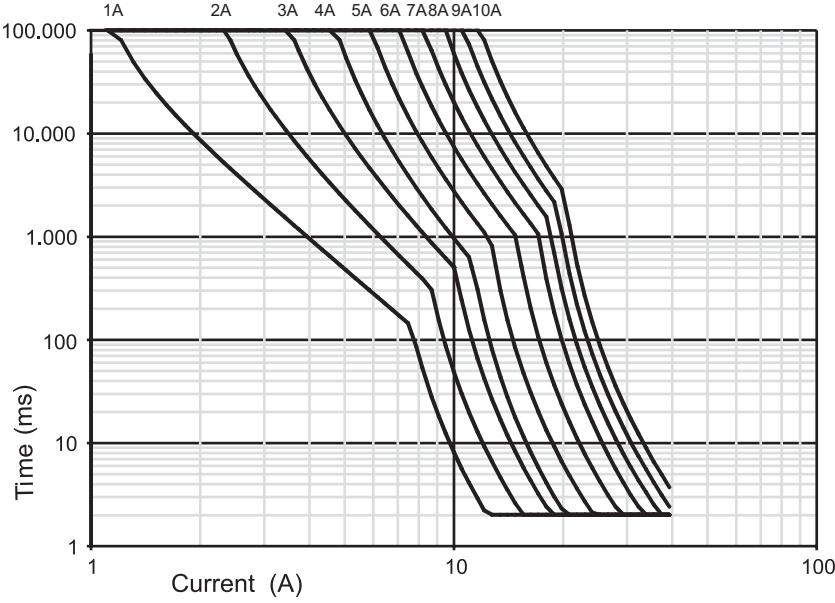
3: Characteristic slow-1



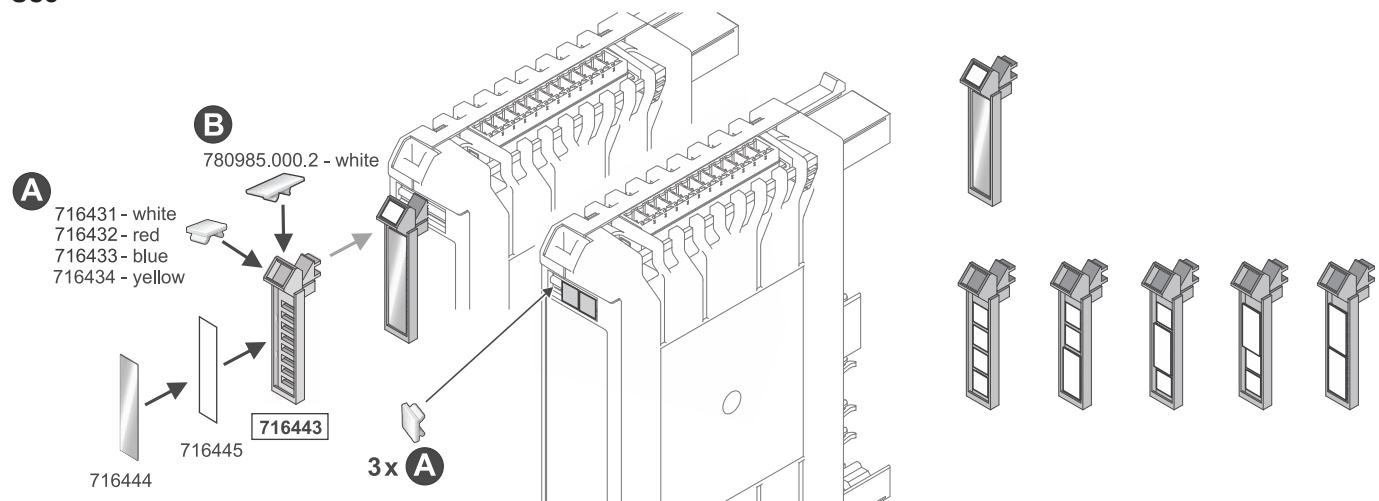
4: Characteristic slow-2



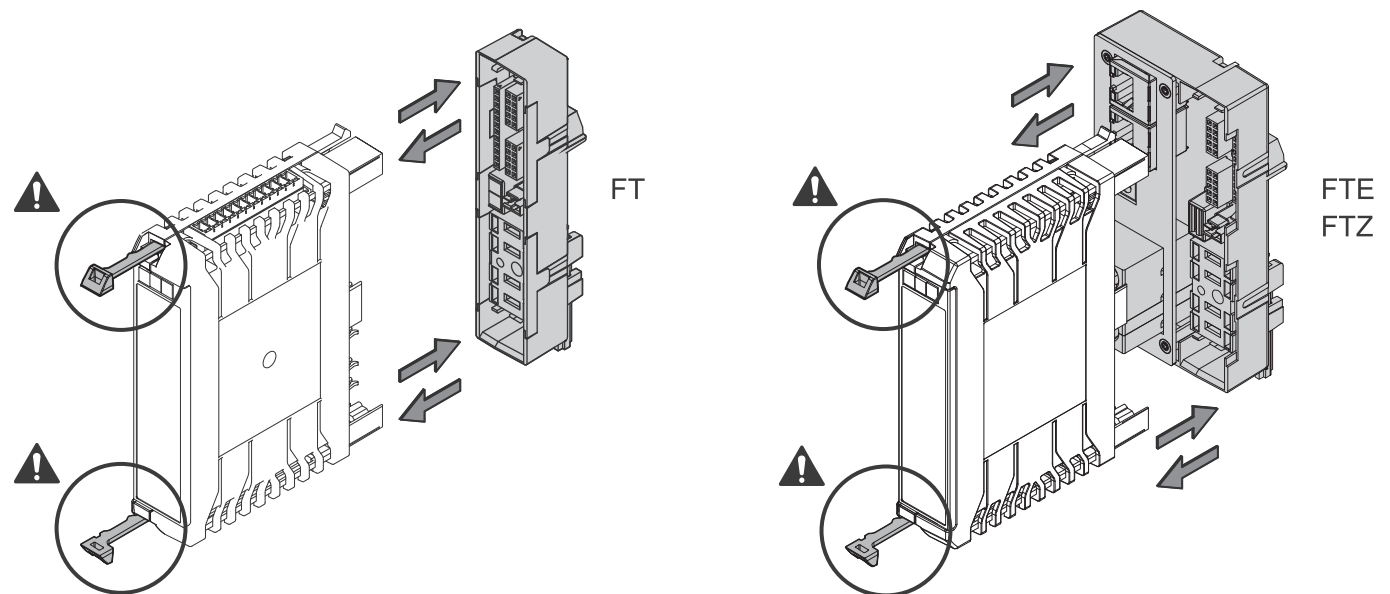
5: Characteristic slow-3



Use



Use



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

