

Technical data sheet · Load monitoring

LOCC-Box-Net Class 2



Identification	Type	LOCC-Box-C2 NET 7-6414
	Part-No.	716414
Description	Electronic load monitoring up to DC 24 A - DC 4 A, with communication Single channel version, adjustable current range, adjustable characteristic with current limitation acc. to NEC class 2	
Input		
Type of function	1-channel 1 pin switching	
Rated voltage U_N	DC 12/24 V	
Operation voltage range	DC 11–30 V	
Input voltage range	DC 10 V – 30 V	
Rated current I_N	DC 5 A	
Supply current	DC 40 A over Cu-rails 10 × 3 mm	
Reverse voltage protection	internal electronics	
Connection type input	screwless contact slide	
Control input (Set / Reset)		
Signal level	DC 12/24 V acc. to IEC 61131-2	
OFF	Pulse with falling edge >100 ms, <800 ms	
ON	Pulse with falling edge > 1 s	

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Output

Switching element	MOSFET
Output current	max. DC 10 A
Power output	limited to <100 W
Voltage drop	<170 mV (10 A)
Status display output	LED green: operating voltage present, no error LED red: error in load circuit
Switch-on capacity	4700 µF
Current range	0.5 A – 4 A (can be set via switch in 0.5 A steps)
Characteristic	fast (1), medium (2), slow 1 (3) see 'Characteristic curves'
Current limitation	<5 A

Signal output

Signal level	DC 24 V: operating voltage on standby, no error, DC 0 V: error, output switched off and manual "OFF"
Switching element	Transistor, collector with pull-up resistance

General

Operation temperature range	-25 °C ... +50 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	8.1 × 114.5 × 116.0 mm
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	basalt grey
Mounting	DIN rail mountable TS35 (EN 60715)
MTBF	690000 h
Protection class	IP20
Installation position	any
Connection type	Spring terminal 0.25 mm ² – 2.5 mm ²
Weight	0.105 kg/piece
Certifications	cULus (E135145) GL in preparation NEC Class 2 (E490188) UL 61010-1 UL 61010-2-201 (E170585)
Standards	EN 60950-1 EN 61131-1, 2 EN 61000 EN 60947-4-1 EN 55022
PU	1 piece

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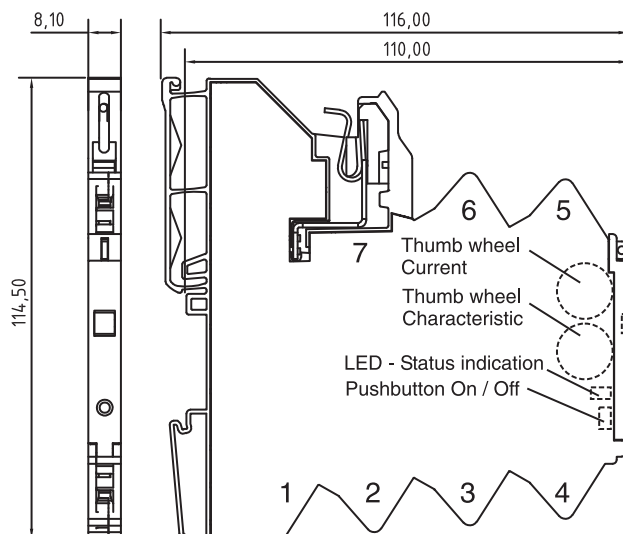
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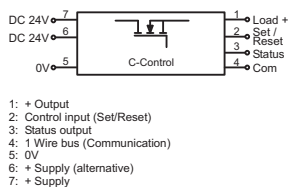
SYSTEMATIC TECHNOLOGY

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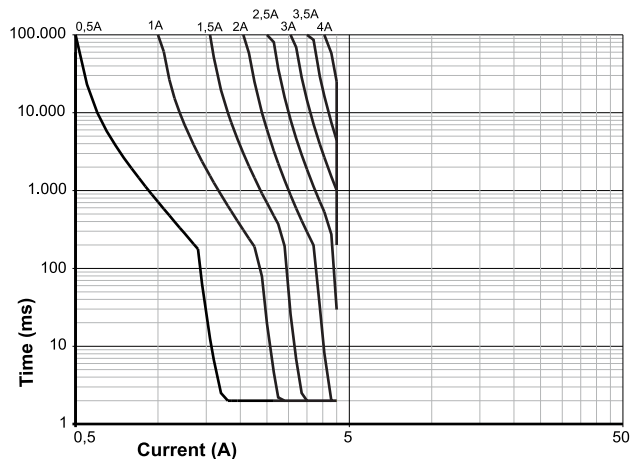
Dimensions



PIN assignment



1: Characteristic fast



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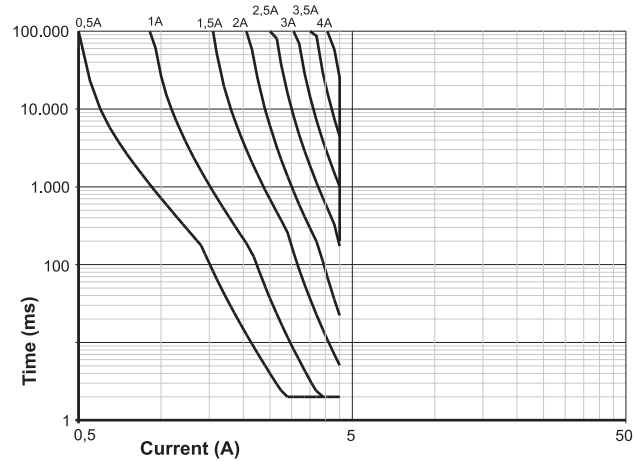
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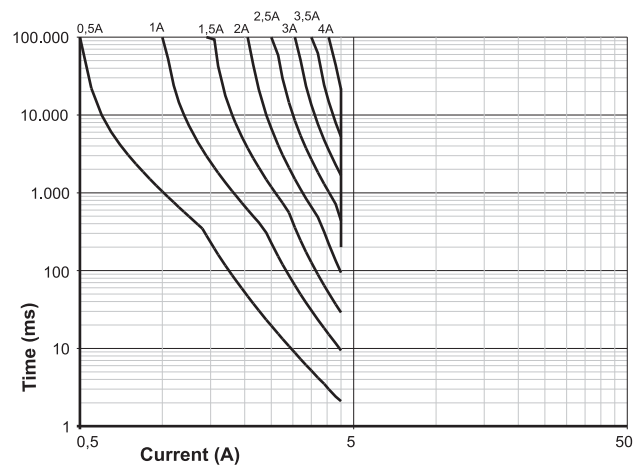
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2: Characteristic medium



3: Characteristic slow-1



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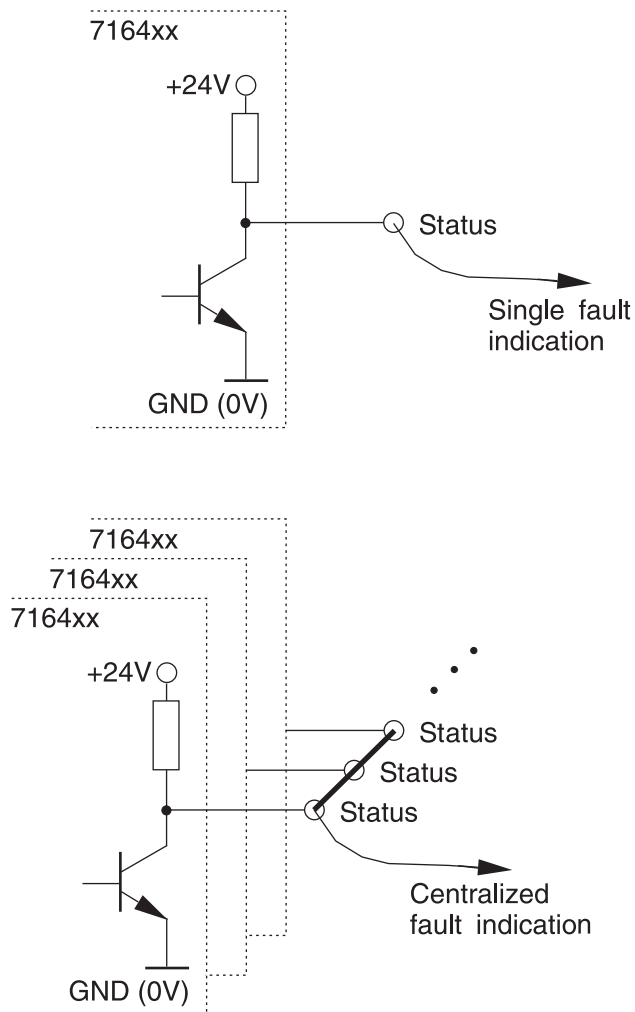
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Signal output



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Accessories

0 V collective terminal, white: Part.-No. 716420 | LOCC-Box-SK 7-6420 | PU: 2 units
Intermediate feed-in terminal: Part.-No. 716421 | LOCC-Box-EKL 7-6421 | PU: 2 units
Distance terminal without contact:Part.-No. 716422 | LOCC-Box-DKL 7-6422 | PU: 2 units
Empty housing without terminals:Part.-No. 716424 | LOCC-Box-DY 7-6424 | PU: 2 units
Supply set 10 mm²:Part.-No. 716425 | LOCC-Box-ES 7-6425 | PU: 1 unit
Supply set 16 mm²:Part.-No. 716447 | LOCC-Box-ES16 7-6447 | PU: 1 unit
Jumper comb 8-pin, white:Part.-No. 716428 | LOCC-Box-BKW 7-6428 | PU: 5 units
Jumper comb 8-pin, red: Part.-No. 716429 | LOCC-Box-BKR 7-6429 | PU: 5 units
Jumper comb 8-pin, blue:Part.-No. 716430 | LOCC-Box-BKB 7-6430 | PU: 5 units
Jumper comb 16-pin, white:Part.-No. 716438 | LOCC-Box-BKW 7-6438 | PU: 5 units
Jumper comb 16-pin, red:Part.-No. 716439 | LOCC-Box-BKR 7-6439 | PU: 5 units
Jumper comb 16-pin, blue:Part.-No. 716440 | LOCC-Box-BKB 7-6440 | PU: 5 units
Labelling sign 5×5 mm, white: Part.-No. 716431 | LOCC-Box-BZW 7-6431 | PU: 1 unit
Labelling sign 5×5 mm, red:Part.-No. 716432 | LOCC-Box-BZR 7-6432 | PU: 1 unit
Labelling sign 5×5 mm, blue:Part.-No. 716433 | LOCC-Box-BZB 7-6433 | PU: 1 unit
Labelling sign 5×5 mm, yellow:Part.-No. 716434 | LOCC-Box-BZG 7-6434 | PU: 1 unit
Tag holder, white:Part.-No. 716443 | LOCC-Box-BZT 7-6443 | PU: 20 units
Cover for tag holder, transparent: Part.-No. 716444 | LOCC-Box-BAD 7-6444 | PU: 20 units
Material name, white: Part.-No. 716445 | LOCC-Box-LEB 7-6445 | PU: 10 units
Material name, white:Part.-No. 716446 | LOCC-Box-BZW 7-6446 | PU: 1 unit
CU rail 10×3 mm:Part.-No. 716426 | LOCC-Box-CU 7-6426 | PU: 1 unit
CU rail cover, grey:Part.-No. 716427 | LOCC-Box-AD 7-6427 | PU: 1 unit

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