



SERIE CRISTAL

FORMAT 48 X 24 mm

LITIA-D

COUNTER / TOTALIZER

DESCRIPTION

Counter totalizer, self powered by its own lithium battery.

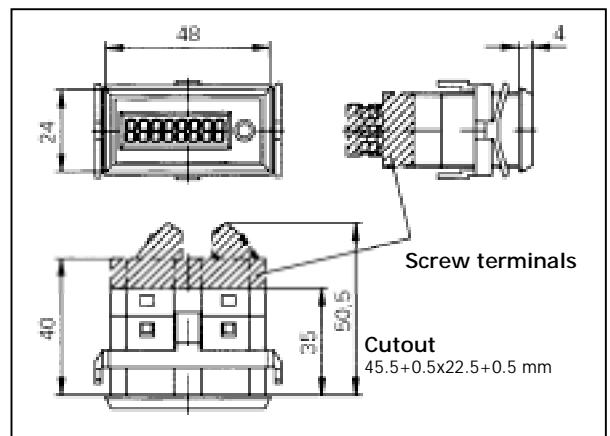
Expected 10-year battery life.

Display 8 mm LCD with 8 digits.

Floating contact or static output type NPN can generate counting pulses.

Voltage pulses input version from 5 to 240 V AC or DC. Galvanic isolation by opto-couplers guaranty high immunity to interferences.

This voltage pulses version, can replace the electro-mechanicals counters.



Signal inputs

LITIA-DN0

Two count inputs: electronic count input for pulses up to max 2 kHz and contact input / open collector input for pulses up to 20 Hz with internal contact debouncing.

Count 20 Hz	Max. counting rate 20 Hz, e.g. via floating contact from Pin 4 to Pin 1 (0 V) Counting by negative edge Minimum pulse duration 25 ms
Count 2 kHz	Max. counting rate 2 kHz NPN-logic Counting by negative edge Limit value 0.7 V Minimum pulse duration 250 µs

LITIA-DN1

Maximum counting rate	15 Hz
Minimum pulse duration	35 ms
INPUT impedance	10 ... 54 kOhm
	Low 1 VDC / VAC
	High 5 ... 240 V DC / V AC

ORDER DESIGNATION

LITIA-DN0 Floating contact

LITIA-DN1 Voltage Pulses 5...240 V DC / V AC

Electrical data

Supply voltage	Integrated 3 V lithium battery with a life of ca. 10 years at 20 °C.
Reset inputs	External reset Reset NPN, switching to 0 V (Pin 1 to Pin 3) Min pulse duration 25 ms, no counting during reset signal, Reset enable The reset key is active if Pin 2 (reset enable) is connected to Pin 1 (0 V)

Ambient conditions

Ambient temperature	0 ... +50 °C
Storage temperature	-10 ... +60 °C
Relative humidity	max. 80% a 25 °C, non condensing
Protection	Front IP 65 to DIN 40050
General rating	EN 61010 part 1 -Protection class II -Over voltage. Category II -Contamination factor 2
Interference immunity	EN 50082-1
Emitted interference	EN 50081-1

Mechanical

Display	display 8-digits LCD, 8 mm high
Keypad	Rubber key for reset
Front dimensions	DIN housing 48 x 24 mm
Mounting	Front-panel installation
Fastening	By means of clamping brackets
Type connection	Screw terminals
Core cross-section	max. 1.5 mm ²
Weight	ca. 40 g
Housing material	ABS black