



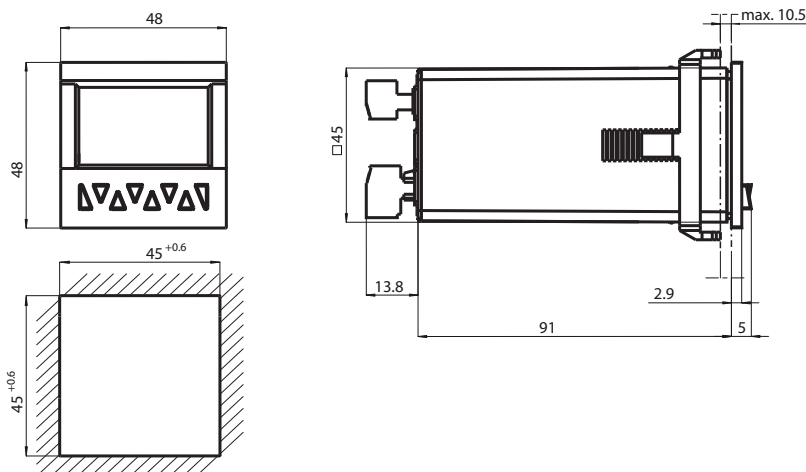
Timer, Counter, Tachometer KC-LCDL-48-2R-230VAC

- Counter/Timer/Tachometer
- Adding/subtracting via 2 separate inputs
- Batch controller with 2 pre-selections
- Easy-to-read backlit 2-line LCD display with icons for the displayed preselection and the status of both outputs
- Display range and preselection range from -999999 up to 999999
Overflow will be evaluated correctly up to 1 decade
- PNP and NPN sensors can be connected
- Degree of protection IP65 (front only)

LCD batch controller with 2 relay outputs and 90 ... 260 VAC supply voltage



Dimensions



Technical Data

General specifications

Pre-selection	2-fold
Data storage	> 10 years, EEPROM
Programming	keypad-driven menu

Indicators/operating means

Type	2-line, 2 x 6-digit LC display with leading sign backlighted
Display value	digit height 9 mm
Pre-selection	digit height 7 mm
Key interlock	via "high" potential at "LOCK" input
Decimal point	0 to max 5 fractional digits
Scale factor	0.0001 ... 99.9999
Reset	manually or external

Electrical specifications

Fusing	90 ... 260 V AC: T 0.1 A
Operating voltage	U _B 90 ... 260 V AC
Power consumption	P ₀ max. 8 VA

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

Technical Data

Input		
Connection		Counter inputs: A and B Control/reset inputs: LOCK, RESET, GATE, MPI
Signal voltage		
High		12 ... 30 V DC
Low		0 ... 4 V DC
Counting frequency		30 Hz / 55 kHz
Minimum pulse duration		Control/reset inputs: 10 ms / 1 ms
Impedance		5 kOhm
Count modes		
Pulse counter		Counting with counting direction (cnt.dir), difference counting (up.dn), up/down counting (quad), Cumulative counting (up.up), up/down counting x 2 (quad 2), up/down counting x 4 (quad 4), additional functions for counter input A and counter input B: A/B, (A-B)/A x 100%
Frequency counter		functions for input A and input B: A, A-B, A+B quad, A/B, (A-B)/A x 100 %
Timer		Time measurement via GATE input (FrErun), counter input A: Start, counter input B: Stop (InpA.InpB.), counter input B: Start/Stop (InpB.InpB.), time measuring via RESET input (auto)
Output		
Relay		changeover contact , Make contact
Switching voltage		max. 250 V AC / 110 V DC
Switching current		max. 3 A AC/DC, min. 30 mA DC,
Switching power		max. 750 VA / 90 W
Sensor supply		20.4 ... 27.6 V DC, max. 80 mA
Output I		Relay with make contact, NC or NO progr.
Mechanical life		2 x 10 ⁷ switching cycles
Electrical life		1 x 10 ⁵ switching cycles at 3 A
Output II		Relay with changeover contact
Mechanical life		2 x 10 ⁷ switching cycles
Electrical life		5 x 10 ⁴ cycles at 3 A
Response time		Relay: approx. 7 ms Frequency counter: 100/600 ms
Compliance with standards and directives		
Directive conformity		
Low Voltage Directive 2006/95/EC		EN 61010-1:2001; protection class: 2
EMC Directive 2004/108/EC		EN 61000-6-2:2005, EN 50295:1999
Standard conformity		
Emitted interference		DIN EN 55011:2009, Class B
Mech. capacity		EN 60068-2-6:2008 10 ... 55 Hz / 1 mm / XYZ 30 min in each direction
Shock and impact resistance		EN 60068-2-27:1995 100 G / 2 ms / XYZ 3 times in each direction
Ambient conditions		
Ambient temperature		-20 ... 65 °C (-4 ... 149 °F)
Storage temperature		-25 ... 75 °C (-13 ... 167 °F)
Relative humidity		≤ 93 % at 40 °C (noncondensing)
Altitude		0 ... 2000 m
Pollution degree		2
Mechanical specifications		
Degree of protection		IP65 (front)
Mass		approx. 143 g

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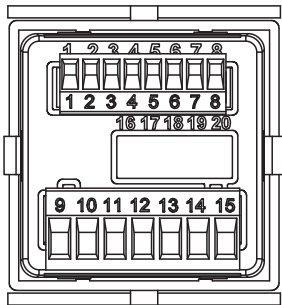
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fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com
 **PEPPERL+FUCHS**

Technical Data

Dimensions	48 mm x 48 mm x 109.8 mm
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Connection



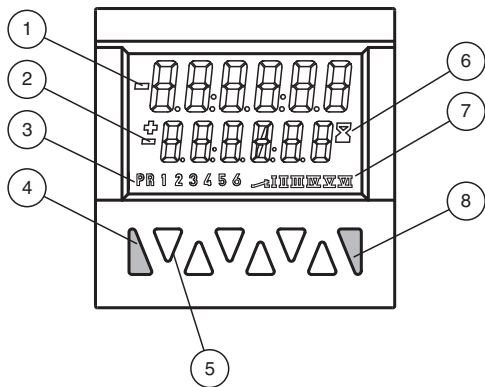
Signal and control inputs

- 1 Sensor supply voltage
- 2 GND (0V)
- 3 INP A (Signal input A)
- 4 INP B (Signal input B)
- 5 RESET (Reset input)
- 6 LOCK (Input Keypad lock)
- 7 GATE (Gate input)
- 8 MPI (User input)

Supply voltage and outputs

- 9 Relay contact C.
 - 10 Relay contact N.O.
 - 11 Relay contact C.
 - 12 Relay contact N.O.
 - 13 Relay contact N.C.
 - 14 90 ... 260 V AC N~
 - 15 90 ... 260 V AC L~
- Output 1 (9, 10)
Output 2 (11, 12)
Supply voltage (14, 15)

Assembly



- 1 Current count value
- 2 Preset value
- 3 Indicator preset value (at 9)
- 4 Reset key
- 5 Decade keys 1 to 6 / Keys for programming
- 6 Run display for timer
- 7 Shows the active output
- 8 Prog/Mode key

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