



Model Number

KH-LCD-24-24VDC

LCD operating hours counter with 24 V_{DC} supply voltage

Features

- Timer/hour meter
- Separate start input available
- Easy-to-read 7-digit LCD display
- Lockable reset
- Protection degree IP65 (front only)

Technical data

General specifications

Data storage EEPROM

Indicators/operating means

Type 7-digit 7-segment LC display
Hourglass as operating indicator

Display value digit height 8 mm

Display interval 0.00 ... 99999.99 h

Reset manually or external

Electrical specifications

Operating voltage U_B 10 ... 30 V DC

Operating current max. 25 mA

Inputs

Voltage low: 0 ... 2 V DC
high: 3.5 ... 30 V DC
Switching threshold approx. 2.7 V

Impedance 10 kΩ

Switch-on delay 500 ms

Measuring time ≥ 200 ms

Input 1

Input type Counter input PNP: static PNP input

Input 2

Input type Counter input NPN: static NPN input

Input 3

Input type Activation input reset button: static NPN input

Input 4

Input type Reset input: flank-triggered NPN input (min. 20 ms)

Ambient conditions

Ambient temperature -20 ... 65 °C (-4 ... 149 °F)

Storage temperature -25 ... 75 °C (-13 ... 167 °F)

Mechanical specifications

Protection degree IP65 (front)
IP20 (Connection side)

Mass approx. 40 g

Dimensions 48 mm x 24 mm x 53.5 mm

Compliance with standards and directives

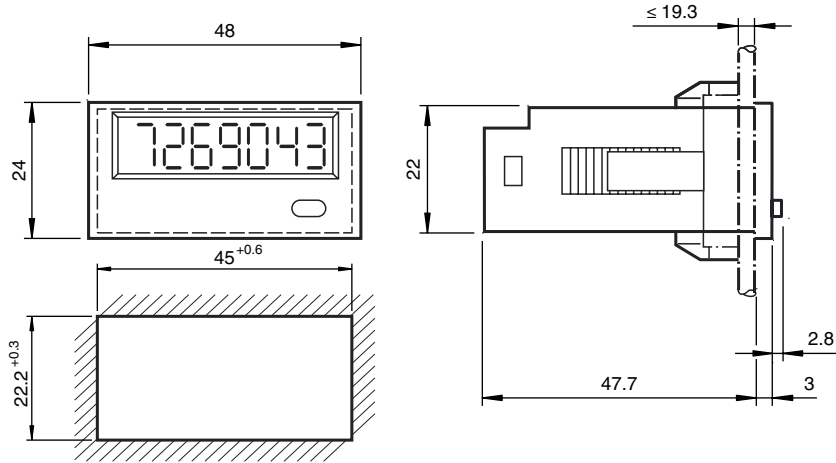
Directive conformity
EMC Directive 2004/108/EC EN 61000-6-2:2005

Standard conformity
Emitted interference DIN EN 55011:2009, Class B

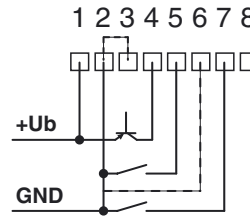
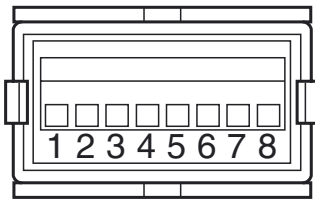
Mech. capacity EN 60068-2-6:2008
10 ... 55 Hz / 1 mm / XYZ
30 min in each direction

Shock and impact resistance device in operation: 100 G / XYZ; EN 60068-2-27:1995
device in operation: 10 G / XYZ; EN 60068-2-29:1995

Dimensions



Electrical connection



Function and terminal assignment

Terminal	Text on device	Function
1	10 - 30 V DC	Supply voltage +Ub
2	GND	0 V DC
3	GND	0 V DC
4	INP PNP	static counting input $\geq 3,5$ V
5	INP NPN	static counting input ≤ 2 V
6	RESET MANUEL ENABLE	Reset key enable input
7	RESET	Reset input
8	n.c.	not used

Release date: 2010-03-01 12:15 Date of issue: 2013-07-01 215123_eng.xml