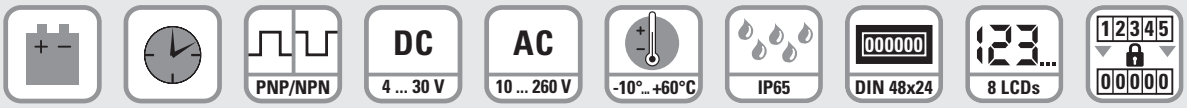
LCD hour meters | Max. time range 9999 h 59 min 59 sec or 9999999.9 sec | Codix 135



The Codix 135 is a simple battery-powered hour meter for PNP, NPN and high-voltage applications.

Its 8-digit LCD display with optional backlighting can display various time ranges.



Battery powered | Timer | Input type | Pulse voltage | Temperature range | High protection level | DIN front bezel | LCD display | Lockable reset

Powerful

- High quality LCD display with 8 mm high figures - optional display backlighting.
- Time range up to 9999999.9 seconds or 9999h99m99s programmable via control input.
- Battery lifetime 8 years.
- High voltage versions for 10 ... 260 V AC/DC voltage pulses, thus to be connected directly via contactors, relays and motors.
- Very high accuracy: 100 ppm.

Simple

- Screw terminals, RM 5 mm.
- Reset key lockable via the input ‚Reset Enable'.
- According to version for PNP, NPN switching level or high voltage version for 10 ... 260 V AC/DC switching voltage.
- Accumulated time is always readable thanks to battery powering.
- High protection level IP65.

Order code

6.135	.	012	.	8	X (a)	X (b)

(a) *Backlighting*
5 = without [1)]
6 = with

(b) *Input type: measurement of short times*

Input type	*INP A*		*INP B*	
0 = adding [1)]	–		0 ... 0.7 V DC	NPN
1 = adding [1)]	–		4 ... 30 V DC	PNP
3 = adding [1)]	10 ... 260 V AC/DC	AC/DC	10 ... 260 V AC/DC	AC/DC

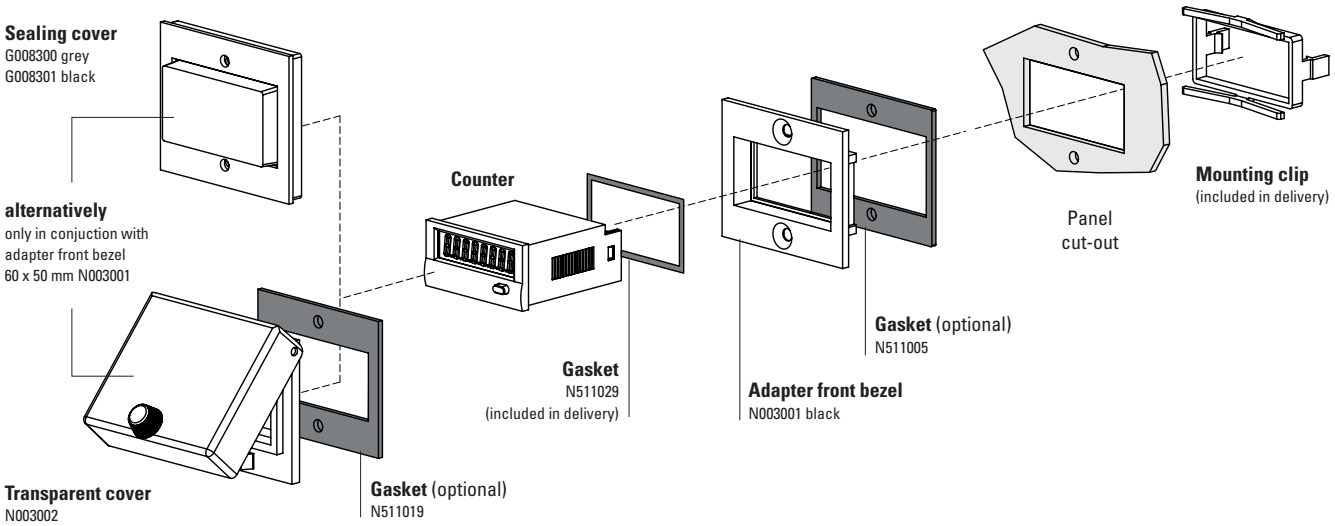
Delivery specification
- Timer
- Mounting clip
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Gasket
- Instruction manual, multilingual

1) Stock types

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LCD hour meters | Max. time range 9999 h 59 min 59 sec or 9999999.9 sec | Codix 135

Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		**53 x 28 mm [2.09 x 1.10“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	grey black anthracite	**T008164** **T008165** **T008180**	**N511015**
		**56 x 40 mm [2.20 x 1.57“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black anthracite	**T008161** **T008181**	**N511045**
		**72 x 36 mm [2.83 x 1.42“]**	for cut-out 68 x 33 mm [2.68 x 1.30“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black and silver anodised as set	**162704Set**	–
		**60 x 50 mm [2.36 x 1.97“]**	for cut-out 54 x 29 mm [2.13 x 1.14“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black	**N003001**	**N511005**
		**48 x 48 mm [1.89 x 1.89“]**	for cut-out 45 x 45 mm [1.77 x 1.77“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black	**T008883**	–
Sealing cover IP65		**K1**	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	**G008300** **G008301**	–
Transparent cover IP65		**1 Dv** (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14“], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	**N003002**	**N511019**
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		**N511029** **N511034**	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98“]**	via adapter T008180 for snap-on mounting on 35 mm [1.38“] top-hat DIN rail	chromated	**G300004**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94“]**	for cut-out 45 x 22.2 mm [1.77 x 0.94“] and cut-out 50 x 25 mm [1.97 x 0.98“]	anthracite	**G003836**	–

incl. in delivery

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LCD hour meters | **Max. time range 9999 h 59 min 59 sec or 9999999.9 sec** | **Codix 135**

Technical data

General technical data

Display	LCD, 8-digits, 8 mm [0.31"] high
Backlighting	external electrical source 24 V DC ±20 %, 50 mA
Counting direction	adding
Display range	see next page
Reset	manual and electrical
Working temperature	-10 °C ... +55 °C [+14 °F ... +131 °F] (non-condensing)
Operating temperature	-10 °C ... +60 °C [+14 °F ... +140 °F] (non-condensing)
Storage temperature	-20 °C ... +70 °C [-4 °F ... +158 °F]
Relative humidity	< 85 % (non-condensing)
Altitude	up to 2000 m [6562']

Electrical characteristics

Supply voltage		internal lithium battery approx. 8 years at 20 °C [68 °F]
Device safety	Designed to	EN 61010 part 1
	Protection class	2
	Application area	pollution level 2

Mechanical characteristics

Housing	dark grey RAL 7021
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]

Count input

A. Timer inputs DC versions (max. 30 V DC) INP B

Timer input	NPN or PNP	depending on the type (see table)
Switching level	NPN	LOW: 0 ... 0.7 V DC
		HIGH: 3 ... 30 V DC
	PNP	LOW: 0 ... 0.7 V DC
		HIGH: 4 ... 30 V DC
Counting start	NPN	for LOW signal at the timer input
	PNP	for HIGH signal at the timer input

B. Timer inputs high voltage versions (10 ... 260 V DC/V AC) INP A

Timer input	optocoupler input
Min. pulse time	16 ms
Switching level	LOW: 0 ... 2 V DC/V AC
	HIGH: 10 ... 260 V DC/V AC
Counting start	for HIGH signal at the timer input

C. Time range change (Mode)

Contact input		open collector (switching at 0 V)
	NPN	LOW 0 ... 0.7 V DC
		HIGH 3 ... 5 V DC
Time range		depending on the circuit (s. order inform.)

D. Reset input for DC and high voltage

Min. pulse time	DC	50 ms
	High voltage	16 ms
Contact input DC	NPN	LOW 0 ... 0.7 V DC
		HIGH 3 ... 30 V DC
High voltage input		10 ... 260 V AC/DC

E. Reset locking input (for DC and AC)

Electrical reset key locking		
Input not active		reset key locked
Contact input		open collector NPN (switching at 0 V)
Switching level	NPN	LOW 0 ... 0.7 V DC
		HIGH 3 ... 5 V DC

Approvals

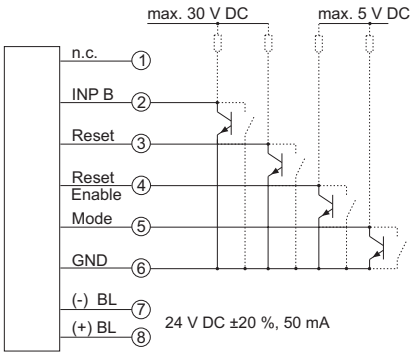
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU
UKCA compliant in accordance with	
EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
Low Voltage Regulations	S.I. 2016/1101

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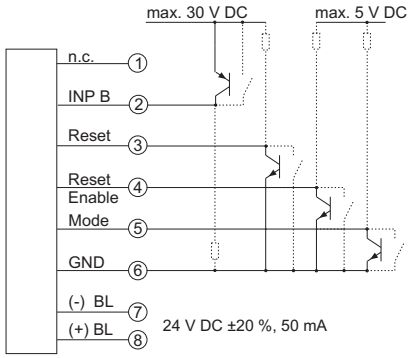
LCD hour meters | Max. time range 9999 h 59 min 59 sec or 9999999.9 sec | Codix 135

Terminal assignment

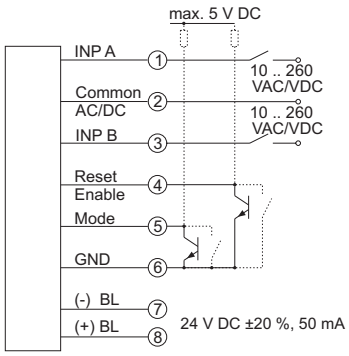
DC type: 6.135.012.8x0



DC type: 6.135.012.8x1



AC type: 6.135.012.8x3



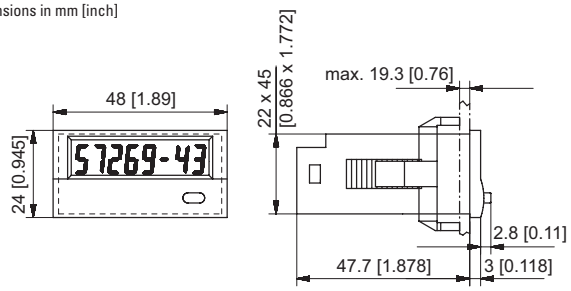
BL = backlighting

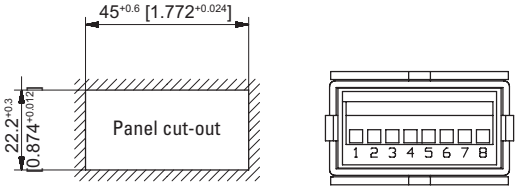
Display and time ranges

time range	display
9999h 59m 59s	9999.59.59
9999999.9 s	9999999.9

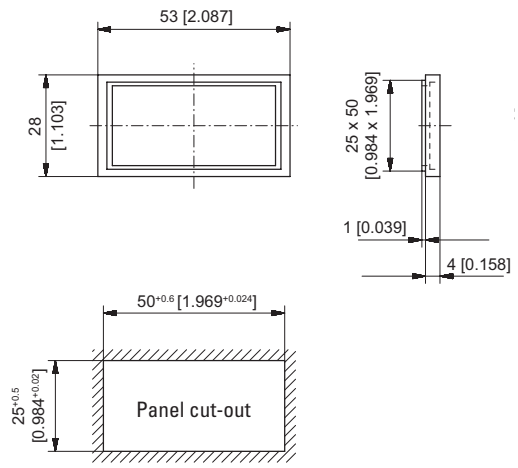
Dimensions

Dimensions in mm [inch]

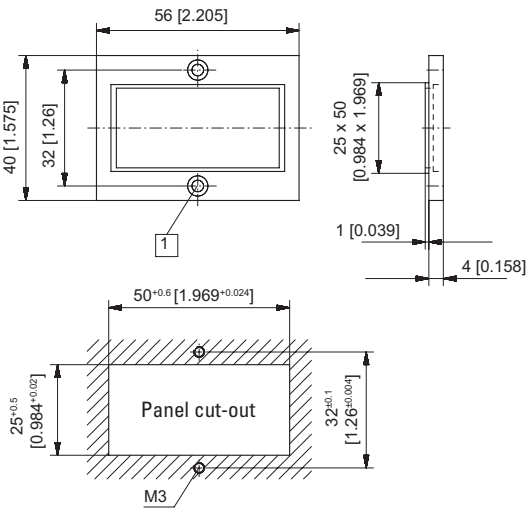




Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74

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