LED timers

h, min, sec or hh.mm.ss (DC)

Codix 523



The Codix 523 is an externally powered timer, hour meter or short-time meter with 4 start input types and individually adjustable time base.

The 6-digit LED display shows the NPN, PNP input signals used for pulse width or time interval measurement.















programming





Powerful

- · High accuracy thanks to quartz time base.
- · Robust housing IP65 protected.
- Very bright LED display, 8 mm high.
- · Time base can be set individually
 - hours, minutes or seconds, the decimal point allows setting it even more accurately, up to max. 3 decimal places.
 - smallest achievable resolution: milliseconds.
 - time base hours (minutes and seconds as real-time display).
- · Short start-up time detects incoming pulses already 16 ms after having been switched on => no loss of pulses in case of a simultaneous motor start.
- Individually adjustable Start/Stop function 2 Start/Stop inputs allow achieving 4 different measuring principles such as, for example, active or passive pulse width measurement, time interval measurement with one single input or with separate inputs.

User-friendly and universal

- · Large keys pressing either of the keys switches between displays (can also be operated wearing gloves).
- Programming
 - simple uniform menu-driven programming and operation.
 - possibility to enter the programming mode also during operation with an authentication query.
- Manual or electrical reset Tamper-proof thanks to lockable reset function.
- · Freely programmable setpoint Start time at which time counting begins.
- As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available, for use as parallel displays for PLCs.
- Optional output: 1 Hz clock pulse in case of active time measurement.

Order code |6.523|.

Output

1 = Optocoupler 2 = No output

Input switch level 0 = Standard (HTL)

A = 4 ... 30 V DC

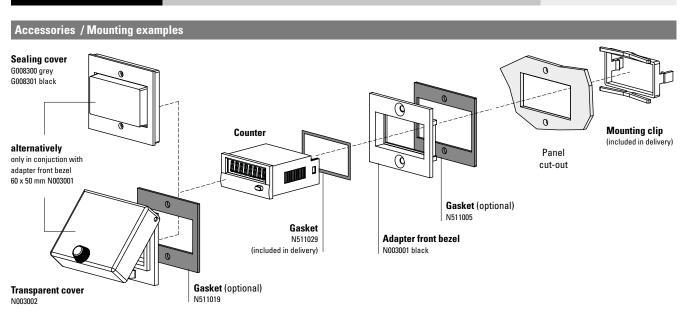
Stock types 6.523.012.300

Delivery specification

- Timer
- · Mounting clip
- Gasket
- Instruction manual, multilingual
- · 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"]



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Sa 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"] black anthracite T008165 N511015 T008180 N511015 T008180 N511015 N511045			Type / size	Description		Order no.	suitable gasket
	Adapter front bezel						N511015
[2.83 x 1.42"]				to cut-out 45 x 22.2 mm [1.77 x 0.94"]			N511045
					silver anodised	162704Set	-
Sealing cover IP65		L		to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	N003001	N511005
For cut-out fame For cut-out family fame For cut-out family fame For cut-out family fame For cut-out family famil					black	T008883	-
Cut-out For cut-out Start Star	•		К1		grey transparent/		-
Mounting frame Cut-out 50 x 25 mm via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail Chromated G300004 -	•	3	(mounted on	for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjuction with adapter front bezel		N003002	N511019
50 x 25 mm [1.97 x 0.98"] for snap-on mounting on 35 mm [1.38"] top-hat DIN rail Enclosure blind 48 x 24 mm for cut-out 45 x 22.2 mm [1.77 x 0.94"] anthracite G003836 —	Gasket counter			·			
	Mounting frame	[2345]	50 x 25 mm	for snap-on mounting on	chromated	G300004	-
	Enclosure blind				anthracite	G003836	-

incl. in delivery



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Technical data

General technical da	ata	
Display		6 digits, red 7 segment LED display; 8 mm [0.31"] high
Data backup		EEPROM
Operating temperature	10 26 V DC > 26 30 V DC	-20 °C +65 °C [-4 °F +149 °F] -20 °C +55 °C [-4 °F +131 °F] (non-condensing)
Storage temperature		-25 °C +70 °C [-13 °F +158 °F]

Electrical characteristics	
Supply voltage	10 30 V DC, with integrated reverse polarity protection
Current consumption	max. 55 mA

Mechanical characteristics	
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Vibration resistance acc. to EN 60068-2-6	10 55 Hz / 1 mm [0.04"] / 30 min
Shock resistance acc. to EN 60068-2-27	100 G: 2 ms 10 G: 6 ms

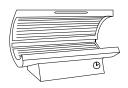
Inputs		
Polarity of inputs		programmable, NPN or PNP for all inputs
Input resistance		approx. 5 kΩ
Resolution		up to 0.001 s
Minimum pulse duration of the reset input		5 ms
Input switching level standard version (HTL)	LOW HIGH	0 0.2 x U _B [V DC] 0.6 x U _B 30 V DC
Input switching level at 4 30 V DC	LOW HIGH	0 2 V DC 4 30 V DC
Accuracy		< 50 ppm

Outputs (optional)	
Output power optocoupler	max. 30 V, 10 mA

Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with EMC Directive RoHS Directive	2014/30/EU 2011/65/EU

Applications for time and hour meters, short-time meters

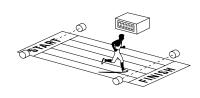
- Time measurements such as hours run recording on all machines and plant, e.g. compressors, solariums, special lights and lamps
- Accessories, OEM equipment or retrofitting to production machine
- Measurement of short times on processes and procedures, time recording (stopwatch function) at sporting events
- Hours run recording for motor vehicles and time monitoring for rally vehicles



Hours run of UV lamps

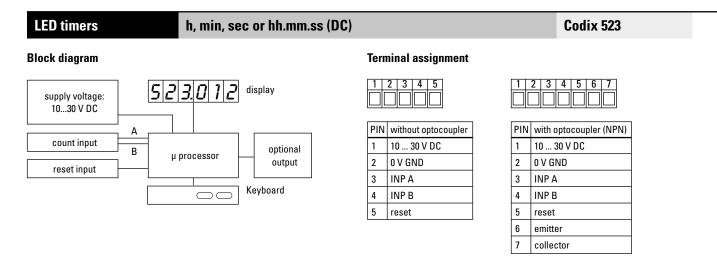


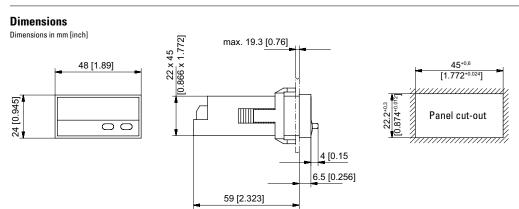
Operating hours



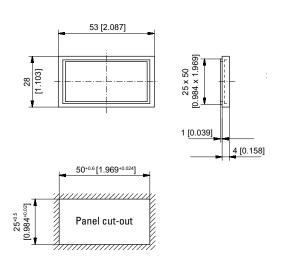
Short time measurement > 1 ms



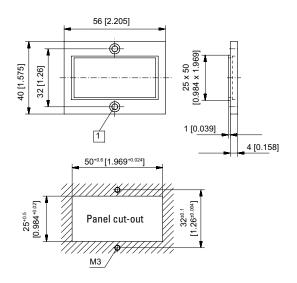




Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74