

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.









DIN front bezel











Temperature

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



1 = Optocoupler $2 = No output^{1)}$

Input switch level 0 = Standard (HTL) 1)

A = 4 ... 30 V DC

Delivery specification

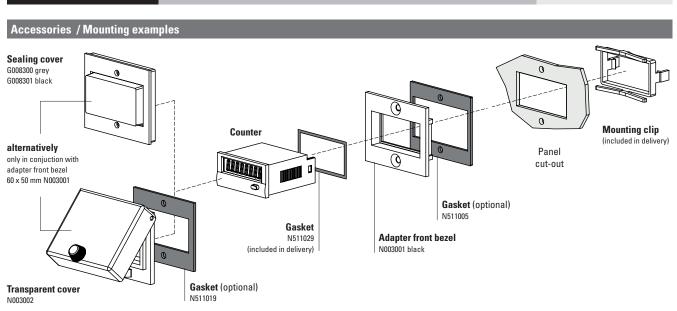
- · Mounting clip
- Gasket
- Instruction manual, multilingual

© Fritz Kübler GmbH, subject to errors and changes. 03/2023

- Front bezel for screw mounting (T008181) $56 \times 40 \text{ mm}$ [2.20 x 1.57"], panel cut-out $50 \times 25 \text{ mm}$ [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"]



LED timers h, min, sec or hh.mm.ss (DC) Codix 523



		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	1	K1	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	G008300 G008301	-
Transparent cover IP65	3	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	123855	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



LED timers h, min, sec or hh.mm.ss (DC) Codix 523

Technical data

General technical data			
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

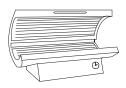
Inputs		
Polarity of inputs		programmable, NPN or PNP for all inputs
Input resistance		approx. 5 kΩ
Resolution		up to 0.001 s
Minimum pulse duration of the reset input		5 ms
Input switching level standard version (HTL)	LOW HIGH	0 0.2 x U _B [V DC] 0.6 x U _B 30 V DC
Input switching level at 4 30 V DC	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
UKCA compliant in accordance with EMC Regulations RoHS Regulations	S.I. 2016/1091 S.I. 2012/3032

Applications for time and hour meters, short-time meters

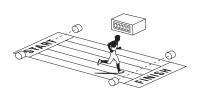
- Time measurements such as hours run recording on all machines and plant, e.g. compressors, solariums, special lights and lamps
- Accessories, OEM equipment or retrofitting to production machine
- Measurement of short times on processes and procedures, time recording (stopwatch function) at sporting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



Hours run of UV lamps

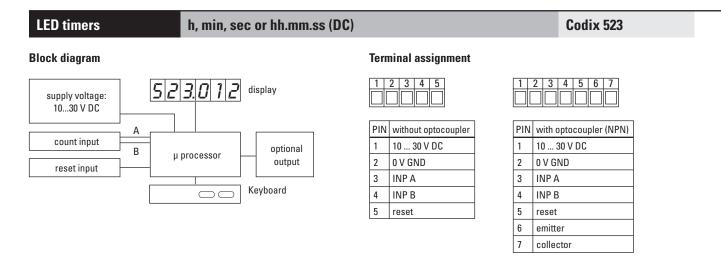


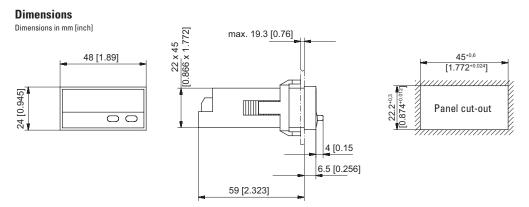
Operating hours



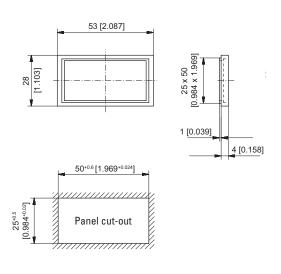
Short time measurement > 1 ms



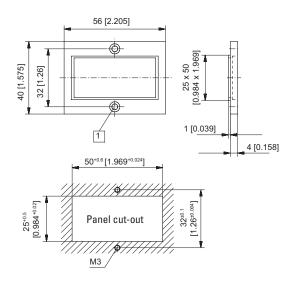




Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74