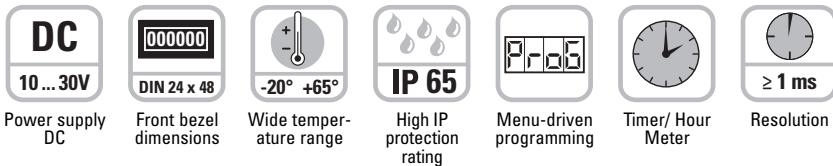


LED Timers – Codix 523

For use as a timer, hour meter or short-time meter

- Pulse width measurement (operating time)
- Time interval measurement (start/stop)



Powerful

- **High accuracy**
Thanks to quartz time base
- **Robust housing**
IP 65 protection
- **LED display**
Very bright, 8 mm high
- **Time base can be set individually**
Hours, minutes or seconds – can be set even more precisely thanks to the max. 3 decimal places. Smallest attainable resolution: milliseconds
- **Fast start-up time**
Detects incoming pulses just 16 ms after being switched on → so no pulses are lost with a simultaneous motor start-up



User-friendly

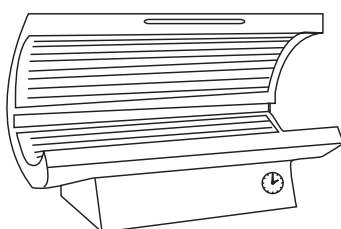
- **Big keys**
Pressing either of the keys switches between displays
Can also be operated when using gloves
- **Easy to programme**
Easy menu-driven programming and operation
Possibility to enter the programming mode during operation, with authentication query

Universal

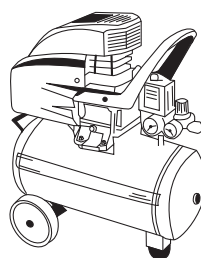
- **Individually programmable start/stop function**
By means of 2 start/stop inputs, up to 4 different measuring principles can be achieved, e.g. active or passive pulse width measurement, time interval measurement with one input or with separate inputs
- **Manual or electrical reset**
Tamper-proof, due to lockable reset function
- **User-programmable setpoint**
Start time at which the time counting should begin
- **DC power supply**
With sensor power supply
- **Inputs**
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 for active time measurement

Applications for time and hour meters, short-time meters

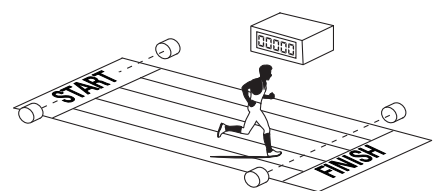
- Time measurements such as hours run recording on all machines and plant, e.g. compressors, solariums, special lights and lamps
- Accessories, OEM equipment or retrofitting to production machine
- Measurement of short times on processes and procedures, time recording (stop-watch function) at sporting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



Hours run of UV lamps



Operating hours



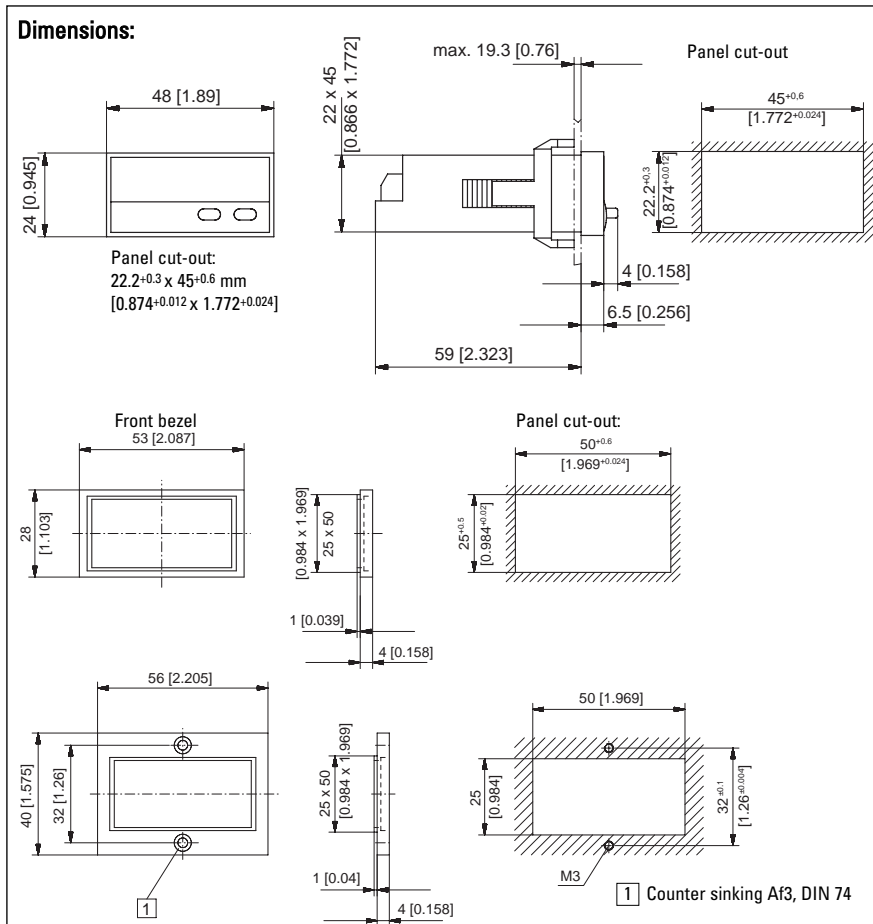
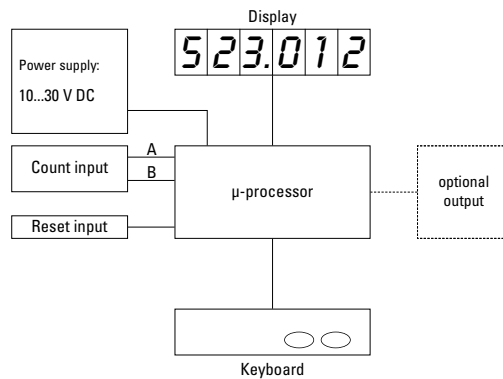
Short time measurement > 1 ms

LED Timers – Codix 523

Technical data:

Supply voltage:	10 ... 30 V DC, with reverse polarity protection	Level of inputs:	low: 0 ... 0.2 x U _B high: 0.6 x U _B ... 30 V DC
Current consumption:	max. 55 mA	Level of inputs:	low: 0 ... 2 V DC 4 ... 30 V DC version high: 4 ... 30 V DC
Display:	6-digit 7-segment red LED; 8 mm [0.315"] high	Optocoupler output:	max. 30 V, 10 mA
Data backup:	EEPROM	Accuracy:	<50 ppm
Housing:	dimension 48 x 24 mm [1.89 x 0.945"] according to DIN 43 700; RAL 7021, grey	Ambient temperature:	-20 ... +65 °C [4 ... 149 °F] at U _B = 10 ... 26 V DC -20 ... +55 °C [4 ... 131 °F] at U _B = >26 ... 30 V DC non condensing
Polarity of Inputs:	programmable, npn or pnp for all inputs	Storage temperature:	-25 ... +70 °C [-13 ... 158 °F]
Input resistance:	approx. 5 kΩ	EMC:	Immunity to interference: EN55011 class B Emitted interference EN61000-6-2
Resolution:	up to 0.001 s	Protection:	IP65 front side
Reset time:	5 ms	Weight:	approx. 50 g [1.764 oz]

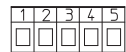
Block diagram:



Connections:

without optocoupler

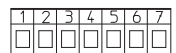
- 1 10 ... 30 VDC
- 2 0 V GND
- 3 INP A
- 4 INP B
- 5 Reset



Connections:

with optocoupler (npn)

- 1 10 ... 30 VDC
- 2 0 V GND
- 3 INP A
- 4 INP B
- 5 Reset
- 6 Emitter
- 7 Collector



Delivery specification:

- 1 Digital display
- 1 Panel mounting clip
- 1 Bezel for screw mounting, panel cut out 50 x 25 mm [1.969 x 0.984"]
- 1 Bezel for clip mounting, panel cut out 50 x 25 mm [1.969 x 0.984"]
- 1 Gasket
- 1 Multilingual operating instruction

Order code:

6.523.01X.3X0

- Input switch level
0 = Standard*
A = 4 ... 30 V DC
- Output
1 = Optocoupler
2 = No output*

* Standard stock model