

LED dual function displays

Universal with dual functions, 4 combinations (DC)

Codix 52U



The Codix 52U is a voltage-powered dual function counter with 4 functions in one device:

Counter with 2 totalizing ranges, totalizer and timer, totalizer and frequency meter, timer with 2 time ranges.

For fast and slow count pulses, with 6-digit LED display for NPN, PNP input signals.



Power supply



DIN front bezel















Temperature High protection M

Pulse counter/ Totalizer

achometer

Timer

Frequency meter HRA

Powerful

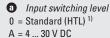
- Fast count and frequency input input frequency max. 60 kHz (can be damped to 30 Hz for mechanical contacts).
- Robust housing IP65 protected.
- Very bright LED display, 8 mm high, 6 digits.
- Very accurate precise frequency measurement principle (HRA-High Rate Accuracy System)
 Frequencies up to 38 Hz are calculated using time-interval (period duration) measurement. Frequencies > 38 Hz are calculated using a special time base (gate time) measurement. A very high accuracy of < 0.1 % is achieved, even with very short gate times. The resulting measurement is available after a max. of 50 ms.
- Short start-up time detects input pulses just 16 msec after being switched on => no pulses are lost with a simultaneous motor start-up.

User-friendly and universal

- Large keys can also be operated when wearing gloves.
- Programming:
 - Simple uniform menu-driven programming and operation.
 - Possible to enter the programming also during operation with a confirmation prompt.
 - Pressing the right key switches between displays.
- Individually programmable scaling: multiplication and division factor (0.0001...99.9999), to display corresponding engineering units, e.g. position in 1/10 mm and speed in RPM.
- Separate factors for frequency- and pulse counting.
- Inputs: as an alternative to the HTL inputs, devices are available with a 4 ... 30 V DC input level, for use as parallel displays to PLCs.
- Timer specials: timer or hours-run meter with various Start/Stop measurements, time range settings in hours, minutes or seconds, with decimal point. Resolutions up to 1/1000 can be programmed.

Order code

6.52U . 01 2 . 3 X 0



Delivery specification

- Counter
- · Mounting clip
- \cdot 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



LED dual function displays	Universal with dual functions, 4 combinations (DC)	odix 52U
Accessories	Dimensions in mm [inch]	Order no.
Adapter front bezel, 72 x 36 [2.83 x 1.42]	for cut-out 68 x 33 [2.68 x 1.30] to cut-out 45 x 22.2 [1.77 x 0.87], for counters 48 x 24 [1.89 x 0.94], as set black and silver anodised	162704 Set
Adapter front bezel, 48 x 48 [1.89 x 1.89]	for cut-out 45 x 45 [1.77 x 1.77] to cut-out 45 x 22.2 [1.77 x 0.87], with clip mounting for counters 48×24 [1.89 x 0.94] black	T008883
Adapter front bezel, 60 x 50 [2.36 x 1.97]	for cut-out 54 x 29 [2.13 x 1.14] to cut-out 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94] black	N003001
Transparent cover, lockable, IP65	for cut-out 54 x 29 [2.13 x 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98] or 45 x 22.2 [1.77 x 0.87]	N003002
Sealing cover type K1, IP65	suitable for front bezel 60 x 50 [2.36 x 1.97], for screw mounting of electromech. counters and via adapter front bezel N003001 for counters 48×24 [1.89 x 0.94]	G008301
Mounting frame with cut-out 50 x 25 [2.36 x 1.97] via separate adapter also for 45 x 22.2 [1.77 x 0.87	for snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94] chromated	G300004

Suitable gaskets, other accessories and installation examples for optional accessories can be found in chapter accessories or in the accessories section under: www.kuebler.com/accessories.

Technical data

General technical d	ata	
Display		6 digits, red 7 segment LED display; 8 mm [0.32"] 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	
Power supply	1030 V DC, with integrated reverse polarity protection
Current consumption	max. 40 mA
EMC standards	EN 55011 class B, EN 61000-6-2, EN 61000-6-3 EN 61326-1
UL approval	file E128604

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 PN
Input resistance	approx. $5 \text{k}\Omega$
Counting frequency 1)	max. 60 kHz, can be damped to 30 Hz
Display range timer frequency meter	0.001 s 999999 h 1/min or 1/sec
Minimum pulse duration of the reset input	5 ms
Input switching level (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	02
Accuracy	< 0.1 % frequency meter, tachometer



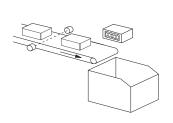
LED dual function displays

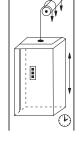
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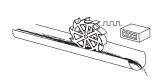
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Applications for dual functions

- Pulse and frequency (speed)
 e.g. production data acquisition: total piece count and speed on OEM equipment, flow rate measuring systems – total flow and current flow
- 2 pulse counters
 Measurement of batch and total piece count or of
 daily production count and total count values
- Pulse and time (maintenance counter)
 Used in the lift industry as trip counters and hours-run meters and on production machines for piece and time counting, flow and time measurement, materials handling time and quantities
- 2 timers
 Measurement of total time and orderspecific times, maintenance intervals and total time, time of day and total time





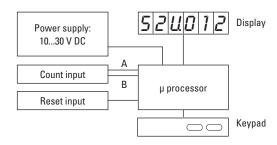


Piece count on conveyor and production speed

Trip counter and hours-run

Flow rate and total volume

Block diagram



Terminal assignment

1	2	3	4	5

PIN	DC version
1	10 30 V DC
2	0 V GND
3	INP A
4	INP B
5	Reset

Function of the inputs INP A, INP B

Counter with 2 totalizing ranges:

INP A: Dynamic count input counter 1 and counter 2

INP B: Inactive

Totalizer and timer::

INP A: Dynamic count input for totalizer

INP B: Start/Stop or gate input for timer

Totalizer and frequency meter:

INP A: Dynamic count input/frequency input

INP B: Inactive

Timer with 2 time ranges:

INP A: Start input (depends on input type)

INP B: Start/Stop or gate input for timer (depends on input type)



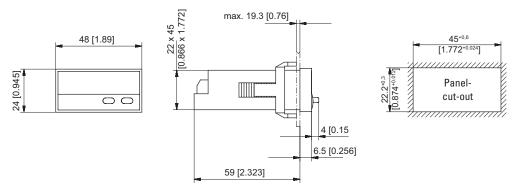
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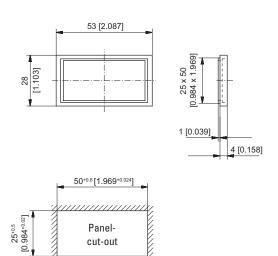
Dimensions

Dimensions in mm [inch]

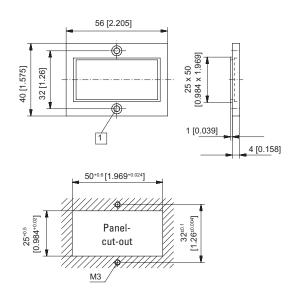


Front bezel for clip mounting (included in delivery)

cut-out



Front bezel for screw mounting (included in delivery)



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