Pulse counters, electronic

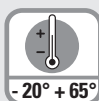| LED pulse counters	2 counters with separate scaling (DC)	Codix 52T

The Codix 52T is a voltage powered dual pulse counter with a common input and separate scaling, for fast and slow count pulses, with 6-digit LED display for NPN, PNP input signals and display switching between A and B.

DC 10 … 30V Power supply	**000000** DIN 48 x 24 DIN front bezel	**+/−** - 20° + 65° Temperature range	**IP65** High protection level	**ProG** Menu-driven programming	Operation with gloves	**max. 60 kHz** Pulse counter/ Totalizer	**PNP/NPN** Input type
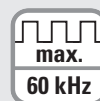
Powerful

- Fast count input – input frequency max. 60 kHz.
- Robust housing – IP65 protected.
- Very bright LED display, 8 mm high.
- Single channel dual totalizer
  - programmable for positive (PNP) or OV (NPN) switching input pulses.
  - fast count inputs with an input frequency of max. 60 kHz, can be damped to 30 Hz for mechanical contacts.
- 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.
- Simple uniform menu-driven programming and operation – possible to enter the programming also during operation with a confirmation prompt.
- Individually programmable scaling for both counters multiplication and division factor (0.0001…99.9999), to display corresponding units in, for example, litres, length or packaging size.
- Simple display switching between counters 1 and 2.
- DC power supply.
- As an alternative to the HTL units, models are also available with a fixed signal level threshold >4 V DC for use with TTL signals.
- Reset manual or electrical, programmable separately for both counters (the reset can also be locked out).

Order code	6.52T . 012 . 3 X 0
	(a)

(a) *Input switching level*
 0 = Standard (HTL)
 A = Fixed level
    LOW   0 … 2 V DC
    HIGH 4 … 30 V DC

Delivery specification
· Counter
· 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

Pulse counters, electronic

LED pulse counters	2 counters with separate scaling (DC)	Codix 52T

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 x 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 x 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 data

|	
Display	6 digits, red 7 segment LED display; 8 mm [0.32"] high
Data backup	EEPROM
Operating temperature 10 ... 26 V DC	-20°C ... +65°C [-4°F ... +149°F]
> 26 ... 30 V DC	-20°C ... +55°C [-4°F ... +131°F] (non-condensing)
Storage temperature	-25°C ... +70°C [-13°F ... +158°F]

Inputs

Polarity of inputs	programmable, NPN or PNP for all inputs
Input resistance	approx. 5 kΩ
Counting frequency	max. 60 kHz, can be damped to 30 Hz
Minimum pulse duration of the reset input	5 ms
Input switching level (HTL)	
LOW	$0 ... 0.2 \times U_B$ (V DC)
HIGH	$0.6 \times U_B ... 30$ V DC
Input switching level at 4 ... 30 V DC	
LOW	0 ... 2 V DC
HIGH	4 ... 30 V DC

Electrical characteristics

Power supply	10 ... 30 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

## Application examples for the dual totalizer

- Logging of piece count and overall total
- Totalizing of flow volumes, quantities and other scalable media
- Counting tasks, such as quantities and piece counting
- Accessories, OEM or retrofit equipment for production machinery
- Piece counting on die-cutters, presses, extruders, wood-processing machines, drilling machines, pick-and-place machines, guillotines, special vehicles
- Measurement of two different values in just one device: e.g. with 2 inputs both the piece count and the number of packages can be counted
- Recording of the total results from 2 work-shifts
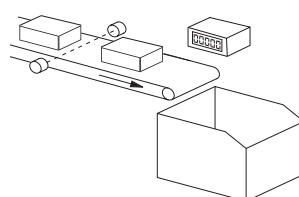
Total piece count as well as packing units
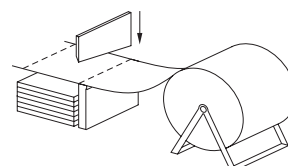
Individual and total quantities
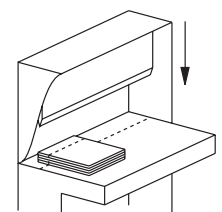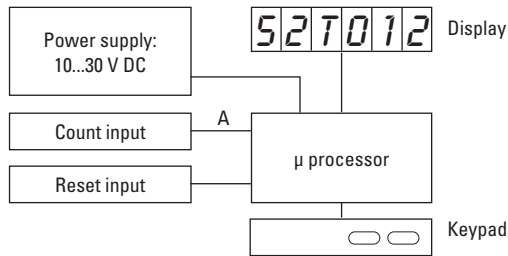
Individual and total quantity from 2 work-shifts

Pulse counters, electronic

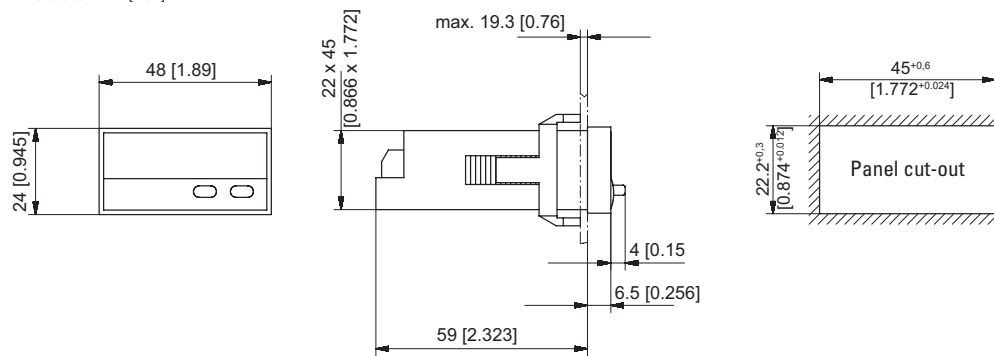| LED pulse counters	2 counters with separate scaling (DC)	Codix 52T

Block diagram

Power supply: 10...30 V DC

5 2 T 0 1 2   Display

Count input — A

Reset input

µ processor

Keypad

Terminal assignment

1	2	3	4	5

PIN	
1	10 ... 30 V DC
2	0 V GND
3	INP A
4	-
5	Reset

Dimensions

Dimensions in mm [inch]

48 [1.89]
24 [0.945]
22 x 45 [0.866 x 1.772]
max. 19.3 [0.76]
4 [0.15]
6.5 [0.256]
59 [2.323]

45⁺⁰·⁶ [1.772⁺⁰·⁰²⁴]
22.2⁺⁰·³ [0.874⁺⁰·⁰¹²]
Panel cut-out

Front bezel for clip mounting (included in delivery)

53 [2.087]
28 [1.103]
25 x 50 [0.984 x 1.969]
1 [0.039]
4 [0.158]

50⁺⁰·⁶ [1.969⁺⁰·⁰²⁴]
25⁺⁰·⁵ [0.984⁺⁰·⁰²]
Panel cut-out
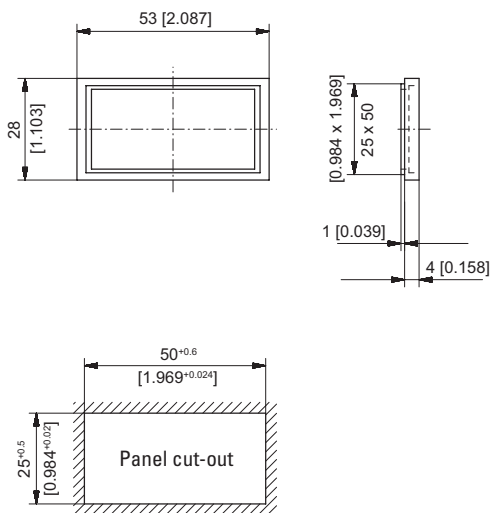
Front bezel for screw mounting (included in delivery)

56 [2.205]
40 [1.575]
32 [1.26]
25 x 50 [0.984 x 1.969]
1 [0.039]
4 [0.158]
1

50⁺⁰·⁶ [1.969⁺⁰·⁰²⁴]
25⁺⁰·⁵ [0.984⁺⁰·⁰²]
32⁺⁰·¹ [1.26⁺⁰·⁰⁰⁴]
Panel cut-out
M3
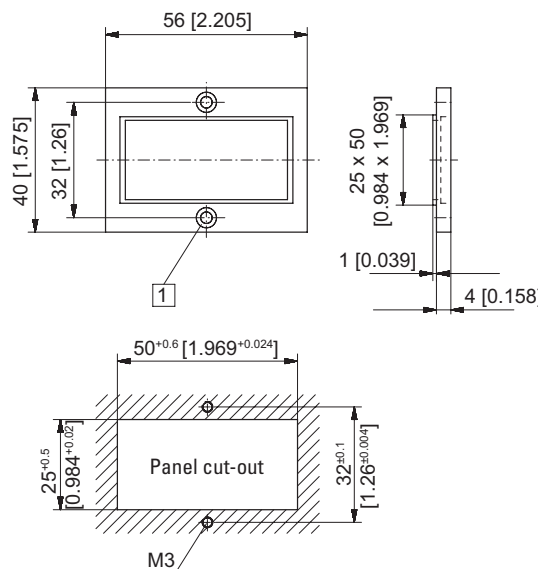
1 Countersinking Af3, DIN 74

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