Pulse counters, electronic

LED pulse counters Adding (DC) Codix 520


The Codix 520 is a simple voltage powered pulse counter for fast and slow count pulses, with 6-digit LED display, for NPN / PNP input signals.


## Powerful

- Fast count input - input frequency max. 60 kHz .
- Robust housing - IP65 protected.
- Very bright LED display, 8 mm high.
- Simple totalizing and quantity counter
- single channel count input and reset input.
- programmable for positive (PNP) or OV (NPN) switching input pulses.
- fast count input 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

- 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.
- Programmable decimal point, can be set from 0.0 to 0.000 .
- Manual or electrical reset - tamper-proof due to lockable reset function.
- 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.

| Order code | $6.520 .012 .3 \begin{aligned} & \text { X } \\ & \text { a }\end{aligned}$ |
| :---: | :---: |
| a Input switching level $\begin{aligned} & 0=\text { Standard (HTL) }{ }^{1)} \\ & A=4 \ldots 30 \mathrm{~V} D \end{aligned}$ | Delivery specification <br> - Counter <br> - Mounting clip <br> - Front bezel for screw mounting (TOO8181) $56 \times 40 \mathrm{~mm}$ [ $2.20 \times 1.57^{\prime \prime}$ ], panel cut-out $50 \times 25 \mathrm{~mm}$ [ $1.97 \times 0.98^{\text {" }]}$ <br> - Front bezel for clip mounting (TOO8180) $53 \times 28 \mathrm{~mm}\left[2.09 \times 1.10^{\prime \prime}\right]$, panel cut-out $50 \times 25 \mathrm{~mm}\left[1.97 \times 0.98^{\prime \prime}\right]$ <br> - Gasket <br> - Instruction manual, multilingual |

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

Input switching level at 4 ... 30 V DC
LOW 0... 2 VDC
HIGH $\quad 4 \ldots 30 \mathrm{~V}$ DC

## Applications for pulse counters / totalizers

- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retrofitting to production machines
- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pick-and-place machines, guillotines, special-purpose vehicles etc.


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Codix 520

## Block diagram



## Terminal assignment

| 1 | 2 | 3 | 4 | 5 |
| :---: | :---: | :---: | :---: | :---: |
| $\square$ | $\square$ |  |  | $\square$ |


| PIN | without optocoupler |
| :--- | :--- |
| 1 | $10 \ldots 30$ V DC |
| 2 | 0 V GND |
| 3 | INP |
| 4 | - |
| 5 | Reset |

Dimensions
Dimensions in mm [inch]


Front bezel for clip mounting (included in delivery)


Front bezel for screw mounting (included in delivery)


1 Countersinking Af3, DIN 74

