# Pulse Counters, electronic

**Kübler**

- Simple programmable pulse counter
- Single channel totaliser

| DC 10...30V | 000000 DIN 24 x 48 | +/- -20° +65° | IP 65 | ProG | (glove) | PNP/NPN | max. 60 kHz |
|---|---|---|---|---|---|---|---|
| Power supply DC | Front bezel dimensions | Wide temperature range | High IP protection rating | Menu-driven programming | Operation with gloves | Input type | Pulse counter/ Totaliser |

## Powerful

- **Fast count input**
  Input frequency max. 60 kHz

- **Robust housing**
  IP 65 protection

- **LED display**
  Very bright, 8 mm high

- **Simple totalizing and quantity counters**
  Single channel count input and reset input
  Programmable for positive (PNP) or negative (NPN) switching input pulses
  Fast count input with an input frequency of max. 60 kHz, can be damped to 30 Hz for mechanical contacts

- **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**
  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

- **Programmable decimal point**
  Can be set between 0.0 and 0.000

- **Manual or electrical reset**
  Tamper-proof, due to lockable reset function

- **Inputs**
  As an alternative to the HTL inputs, devices with a 4 ... 30 V DC  DC input level are available, for use as parallel displays for PLCs

## Applications for Pulse Counters/ Totalisers

- Simple count tasks such as quantity and piece counting
- Accessories, OEM equipment or retro-fitting to production machines

- Piece counting on die cutters, presses, extruders, woodworking machines, drilling machines, pick-and-place machines, guillotines, special-purpose vehicles etc.



Piece-counting



Number of cuts
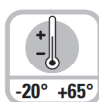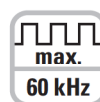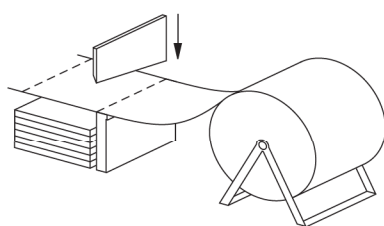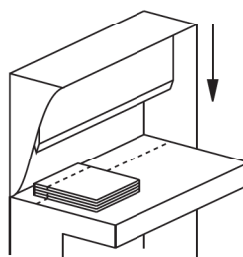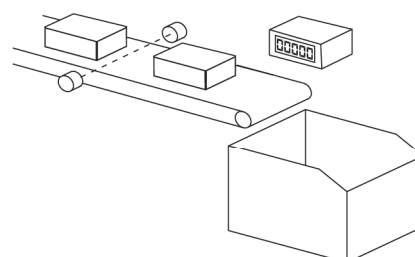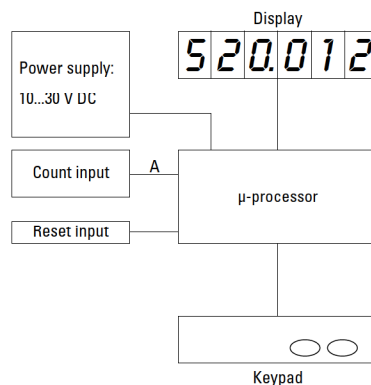


Piece-counting on conveyor

# Pulse Counters, electronic
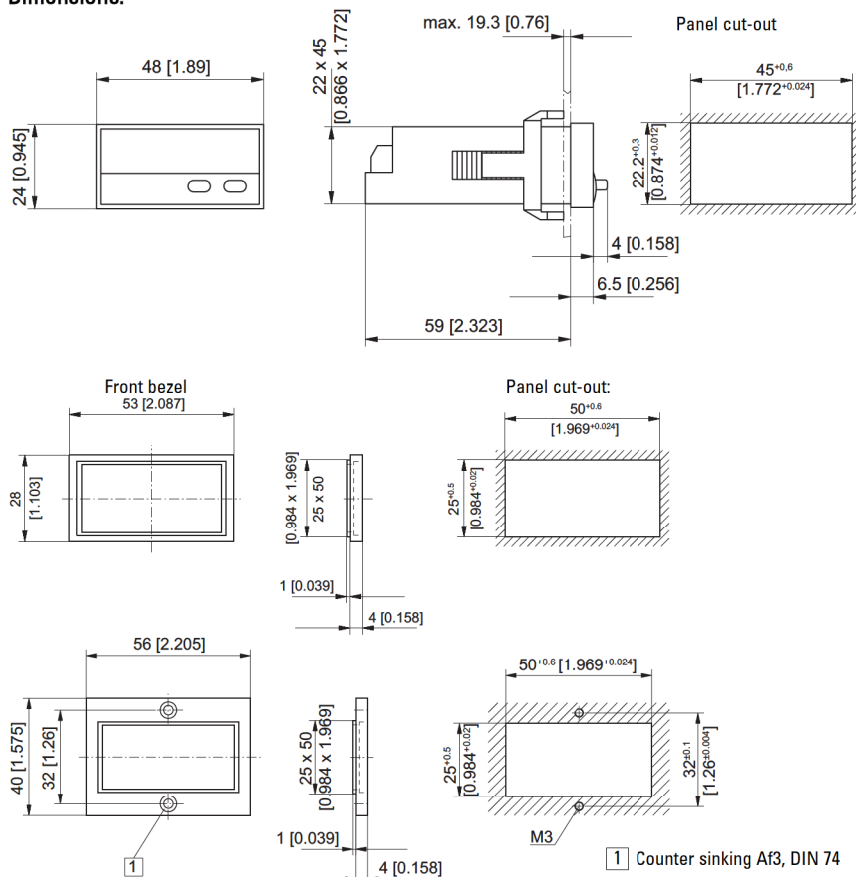
## LED Pulse Counters – Codix 520

### Technical data:

| | |
|---|---|
| Supply voltage: | 10 ... 30 V DC, with reverse polarity protection |
| Current consumption: | max. 45 mA |
| Display: | 6-digit red 7-segment LED; 8 mm [0.315"] high |
| Data backup: | EEPROM |
| Housing: | dimension 48 x 24 mm [1.89 x 0.945"] according to DIN 43 700; RAL 7021, grey |
| Polarity of inputs: | programmable, npn or pnp for all inputs |
| Input resistance: | approx. 5 k$\Omega$ |
| Counting frequency: | 60 kHz, can be damped to 30 Hz |
| Reset time: | 5 ms |

| | | |
|---|---|---|
| Level of inputs: | low: | 0 ... 0.2 x $U_B$ [V DC] |
| | high: | 0.6 x $U_B$ ... 30 V DC |
| Level of inputs: 4 ... 30 V DC version | low: | 0 ... 2 V DC |
| | high: | 4 ... 30 V DC |
| EMC: | | Emitted interference EN55011 Class B Immunity to interference: EN61000-6-2 |
| Ambient temperature: | | -20 ... +65 °C [4 ... 149 °F] at Ub = 10 ...26 V DC -20 ... +55 °C [4 ... 131 °F] at Ub = >26 ... 30 V DC non-condensing |
| Storage temperature: | | -25 ... +70 °C [–13 ... 158 °F] |
| Protection: | | IP 65 front side |
| Weight: | | approx. 50 g [1.764 oz] |

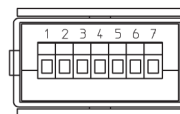### Block diagram:



### Dimensions:



Counter sinking Af3, DIN 74

### Connections:
1 10 ... 30 V DC
2 0 V GND
3 INP
4 –
5 Reset

### Delivery specifications:
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 Seal
1 Multilingual operating instruction

### Order code:
6.520.012.3X0

└─ Input switch level
   0 = Standard*
   A = 4 ... 30 V DC level

* standard stock model