Display counters electronic

Kübler

separate inputs for frequency and position

DC 10...30V	000000 DIN 24 x 48	-10° +50°	IP 65	ProG	max. 60 kHz	POSITION	1/sec 1/min	t/Hz HRA
Power supply DC	Front bezel dimensions	Wide temperature range	High IP protection rating	Menu-driven programming	Pulse counter/ Totaliser	Position display	Frequency meter/ Tachometer	Frequency meter HRA

Powerful

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

- **Robust housing**
  IP 65 protection

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

- **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.

- **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
  Pressing the right key switches between displays

Universal

- **Individually programmable scaling**
  Multiplication and division factor (0.0001 to 99.9999), to display corresponding engineering units, e.g. position in 1/10 mm and speed in RPM.

- **Separate factors and inputs for frequency- and pulse counting**

- **4 different count input modes for the position display**
  2-channel input for detecting count direction, difference or adding mode, quadrature x1, x2 or x4. 1 separate input for rotary speed and speed, display in 1/min or 1/sec

- **DC supply**

- **Inputs**
  As an alternative to the HTL inputs, devices with a 5 VDC input trigger level are available, for use as parallel displays for PLCs.

Applications for Frequency and Position Display/ Totaliser

Position and rotary speed applications, e.g.

- OEM equipment or retrofitting to drilling machines
- OEM equipment on flow measuring plant, e.g. total flow and current flow

- Total piece count and pieces per minute, where the pulse counting occurs in the add/subtract mode, in order to deduct reject parts
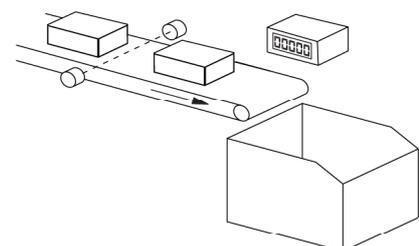
- Production data acquisition: total piece count and production speed, or absolute distance traversed and current speed
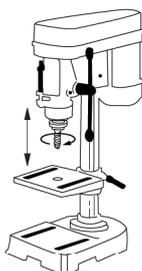
Rotary speed and drilling depth
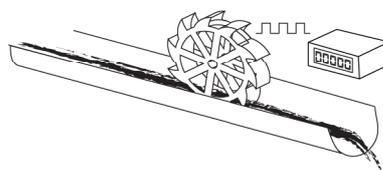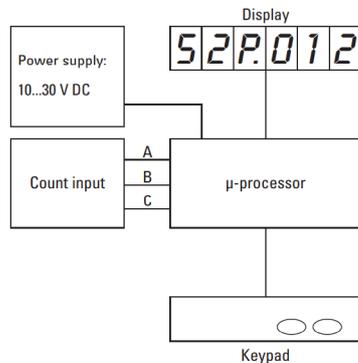
Flow rate and total volume
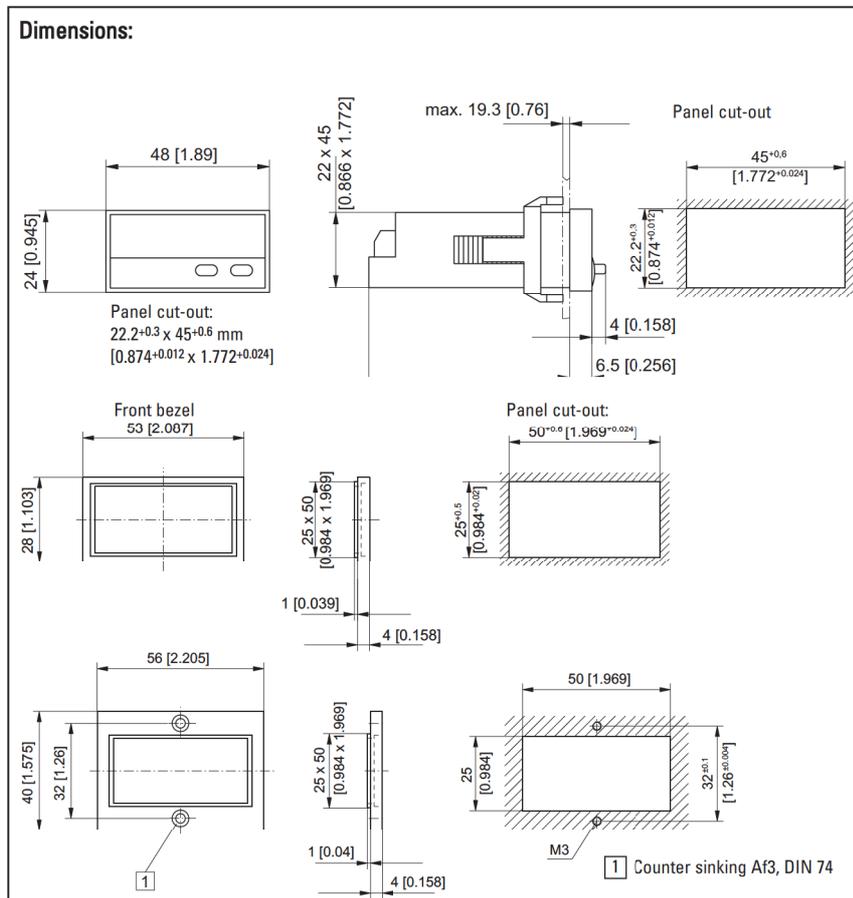
Piece count on conveyor and production speed

Display counters electronic

Position and Frequency display *CODIX* 52P

Technical data:

Supply voltage:	10 ... 30 V DC, with reverse polarity protection
Current consumption:	max. 40 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 kΩ
Counting frequency:	30 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:	Low: 0 ... 2 V DC
5 V version	High: 4 ... 30 V DC
Accuracy:	<0.1 % (Frequency display, tachometer)
EMC:	according to EC EMC directive 89/36/EWG
Immunity to interference:	EN 61000-6-4/EN 55011 class B
Emitted interference:	EN 61000-6-2
Ambient temperature:	−10 ... +50 °C [14 ... 122 °F]
Storage temperature:	−25 ... +70 °C [−13 ... 158 °F]
Protection:	IP 65 front side
Weight:	approx. 50 g [1.764 oz]

Display counters

Block diagram:

Dimensions:

Panel cut-out:
22.2$^{+0.3}$ x 45$^{+0.6}$ mm
[0.874$^{+0.012}$ x 1.772$^{+0.024}$]

1 Counter sinking Af3, DIN 74

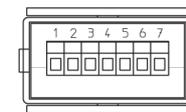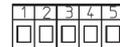**Connections:**

without optocoupler
1 10 ... 30 V DC
2 0 V GND
3 INP A
4 INP B
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 instructions

Order code:

6.52P.012.3X0

Input switch level
0 = Standard*
A = 5 V

* standard stock model