Time meter electronic

Kübler

4 dual functions in one device
> solves all applications where
  2 different values must be displayed simultaneously.

- Counter with 2 totalizing ranges
- Totaliser and time counter
- Totaliser and frequency counter
- Timer with 2 time ranges

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

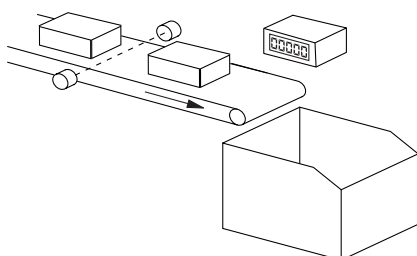RoHS ✓   c**UL**us

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 for frequency- and pulse counting**

- **DC power 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

- **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
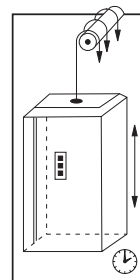
Applications for dual functions

- **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 order-specific times, maintenance intervals and total time, time of day and total time.


Piece count on conveyor and production speed

Trip counter and hours-run
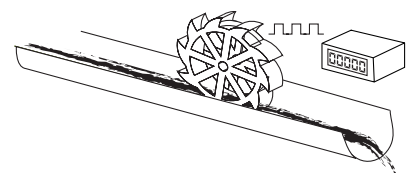
Flow rate and total volume

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Universal with dual functions CODIX 52U

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
Display range:	0.001 s ... 999999 h
Reset time:	5 ms

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Level of inputs:	Low: $0 ... 0.2$ x U_B [V DC] High: 0.6 x U_B ... 30 V DC
Level of inputs: 5 V version	Low: 0 ... 2 V DC High: 4 ... 30 V DC
Optocoupler output:	Max. 30 V, 10 mA
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]

Block diagram:

Dimensions:

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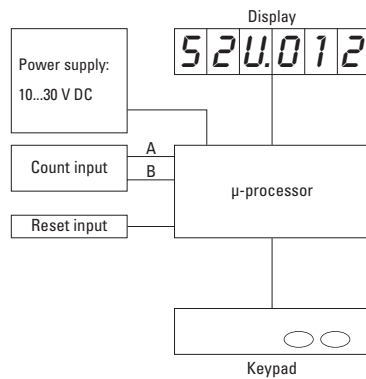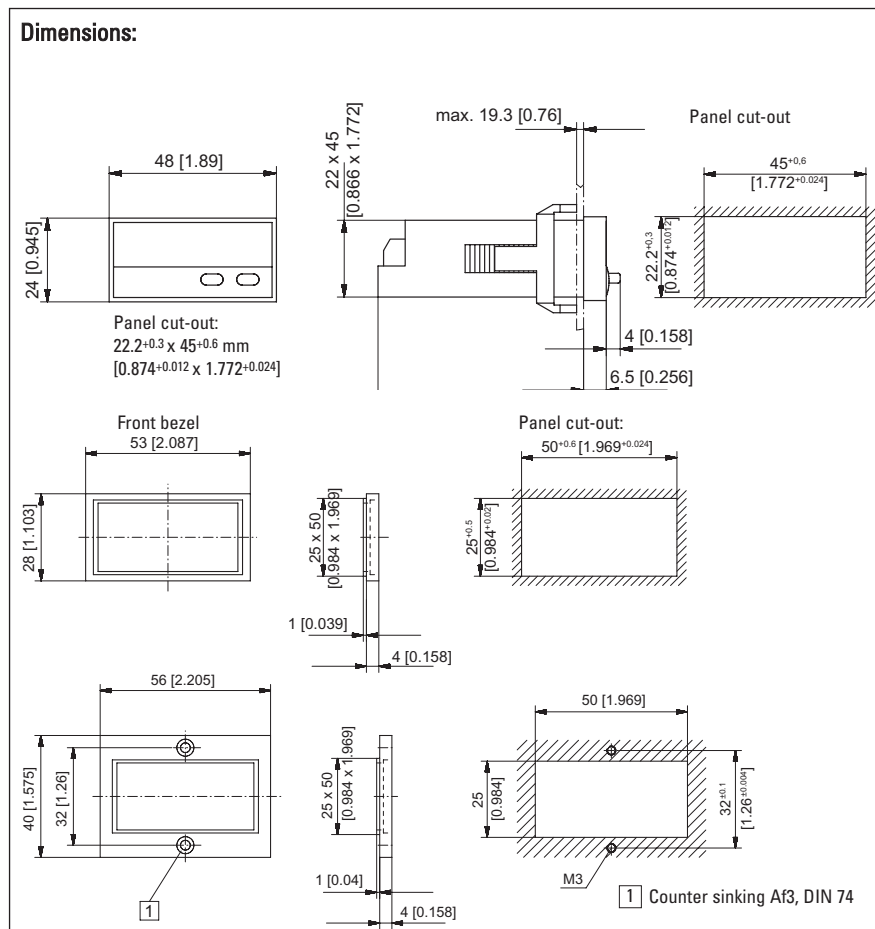
Connections:

without optocoupler
1 10 ... 30 V DC
2 0 V GND
3 INP A
4 INP B
5 Reset
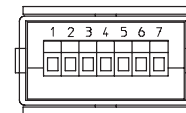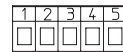
Delivery specifications:

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:

6.52U.012.3X0

Input switch level
0 = Standard*
A = 5 V

* standard stock model

Timers