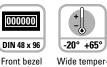


LED Multifunction Counters – Codix 544

programmable as:

- Pulse counter
- Position display
- Frequency / speed display
- Timer/ short time meter





ature range







Totaliser



display



meter/

Tachometer



Frequency meter HRA

Powerful

 Fast count input and frequency input Input frequency max. 60 kHz

dimensions

- Robust housing IP 65 protection
- LED display Very bright, 14 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

sing times

Detects incoming pulses just 16 ms after being switched on -> so no pulses are lost with a simultaneous motor start-up

Applications for Multi-function Display

piece counting, measuring and recording

of speed and of operating and proces-

• Piece counting or tool-life measurement

working machines, drilling machines,

on die cutters, presses, extruders, wood-

· Counting tasks such as quantity and



programming

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

pick-and-place machines, guillotines,

machines, such as sawing machines,

milling machines, bending and folding

special-purpose vehicles etc.

· Positioning tasks on processing

machines, etc.

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

Timer/

Hour Meter

- 4 different count input modes 2-channel input for detecting count direction, difference or adding mode, quadrature x1, x2 or x4
- Frequency measurement
- Display in 1/min or 1/sec Time counting

Pulse width or time interval measurement in hours, minutes or seconds, as well as real-time display

 AC or DC power supply With sensor power supply

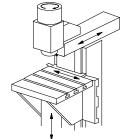
Inputs

As an alternative to the HTL inputs, devices with a 5 V DC input level are available, for use as parallel displays for PLCs.

Optional output

Zero signal for position and count, zerospeed monitoring, 1 Hz clock pulse for active time measurement

- · Production data acquisition by means of piece counting (using difference or adding), or measurement of production times or production speeds.
- Totalizing flow, quantity and other scaleable media, or display of current flow rates.



Position or rotary speed on milling machine



Drilling machine head, speed or drilling depth

226 www.kuebler.com Piece count on conveyor or production speed



High IP Plug-in screw protection rating

terminal

Multifunction Counter, electronic



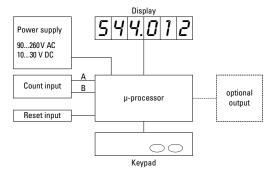
LED Multifunction Counters – 544

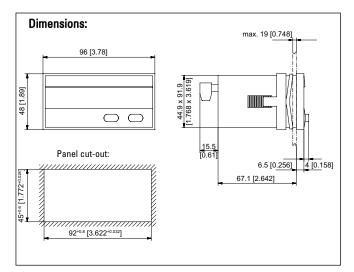
Technical data:

Supply voltage:	10 30 V DC, with reverse polarity protection	
(galvanically isolated)	90 260 V AC	
Current consumption:	max. 50 mA, 6 VA	
Display:	6-digit 7-segment red LED display;	
	14 mm high [0.551"]	
Data backup:	EEPROM	
Housing:	dimension 96 x 48 mm [3.78 x 1.89"]	
	according to DIN 43 700; RAL 7021, grey	
Polarity of Inputs:	programmable, npn or pnp for all inputs	
Input resistance:	approx. 5 k Ω	
Counting frequency*:	60 kHz, can be damped to 30 Hz. For position	
	display max. 25 kHz	
Minimum reset pulse time: :	5 ms	
Display range timer:	0.001 s 999999 h	
Weight:	approx. 150 g [5.291 oz]	

*for further specifications please refer to the manual

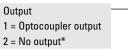
Block diagram:





Order code:

6.544.01<u>X.XX</u>0



Further stock model 6.544.011.000

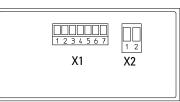
Input switching level 0 = Standard level* A = 4 ... 30 V DC level

Voltage supply — 0 = 90 ... 260 V AC* 3 = 10 ... 30 V DC*

* standard stock model

Input switching level	DC-version	
(standard version):	low: 0 0.2 [0 .	0.008"] x UB [V DC]
	high: 0.6 x (0.02	4"] UB 30 V DC
	AC-version	
	low: 0 4 V DC	;
	high: 12 30 V	DC
Input switching level	low: 0 2 V DC	
4 30 V DC version:	high: 4 30 V D	00
Voltage supply for	24 V DC ±15 %/100 mA	at AC-versions
sensors:		
Accuracy:	tachometer:	<0,1 %
	timer:	< 50 ppm
Ambient temperature:	-20 +65 °C [-4 149	°F] non condensing
Storage temperature:	–25 +70 °C [–13 158 °F]	
Altitude:	up to 2000 m	
EMC:	Emitted interference:	EN55011 Class B
	Immunity to interferen	ce: EN61000-6-2
Device safety:	design to:	EN61010 Part 1
	drotection Class:	2
	application area:	Soiling Level 2
	protection:	IP65 from front

Connections:



Connection: X2:

Pin	AC-version	DC-version
1	90 260 V AC	0 V DC (GND)
2	90 260 V AC	10 30 V DC

Connection X1:

Pin	AC-version	DC-version	
1	Optocoupler-output Emitter		
2	Optocoupler-output Collector		
3	Set		
4	INP B		
5	INP A		
6	GNDout	n.c.	
7	+24 Vout	n.c.	

Delivery specification:

Delivery specification:

Digital display Mounting clip Gasket

Digital display

Mounting clip

Gasket

2 screw terminals Multilingual operating instructions

2 screw terminals Multilingual operating instructions

6/2009