

Measuring wheel systems

Compact-Line

Measuring wheel system MWE11

With spring bracket, contact force max. 10 N



With incremental encoder Sendix 2400.

Measuring wheel systems from Kübler are the ideal solution for reliable speed measurement, position detection and length measurement in applications with linear movements. These are recorded rotationally via the measuring wheel with attached encoder directly on the surface of the material to be measured and converted into linear data.

The compact measuring wheel system MWE11 with the smallest size can be integrated very flexibly, even in the tightest installation spaces.



Features

· Easy handling

Measuring wheel, sensor and spring bracket are pre-assembled and therefore easy to install: screw on - connect - done.

· Compact design

Dimensions of the complete unit only 74 x 50 x 52 mm.

. Measuring wheels in 2 variants

Circumference 100 mm - measuring wheel coating available with diamond knurl or rubber surface.

Order code	
with incremental encoder	

05.2400 Type

0040

1000 . 50 XX

Measuring wheel, circumference / coating

45 = 100 mm / diamond knurl (aluminum)

49 = 100 mm / Rubber, Shore hardness 60

(other measuring wheels on request)

Mounted encoder

incremental

Output circuit / supply voltage encoder push-pull (with inverted signal) / 8 ... 30 V DC

Type of connection radial cable, 2 m PVC

Pulse rate 1000 ppr

(other options on request)

Calculation of the linear resolution

	Measuring step (Dinstance/pulse)			Resolution (pulses/Dinstance)			
Calculation	Distance ppr	=	Measuring wheel circumference Pulse number encoder	ppr Distance	=	Pulse number encoder Measuring wheel circumference	
Example Measuring wheel circumference = 100 mm Pulse number encoder = 1000 ppr	100 mm 1000 ppr	=	0.1 mm / puls	1000 ppr 100 mm	=	10 pulses / mm	



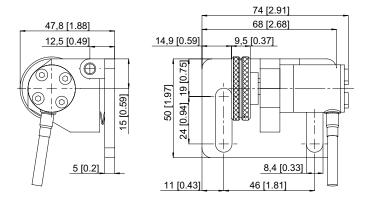
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Single components				Order no.
Measuring wheels		Option 1 45 49	circumference / coating 100 mm / diamond knurl (aluminum) 100 mm / Rubber, Shore hardness 60 (other measuring wheels on request)	8.0000.3113.0006 8.0000.3123.0006
Evaluation				Order no.
Preset counter Codix 924	Multifunction device: - Tachometer with limit values - Position indicators with limit values - Time preset counter			6.924.01XX.XXX

Further accessories can be found at: kuebler.com/accessories Cables and connectors can be found at: kuebler.com/connection-technology

Dimensions

Dimensions in mm [inch]





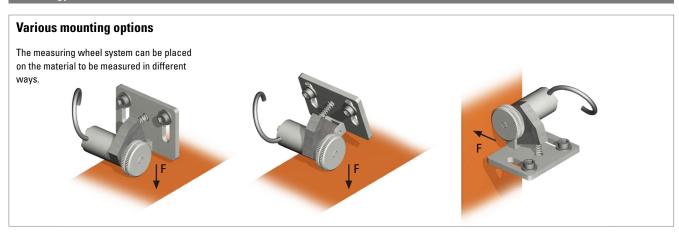
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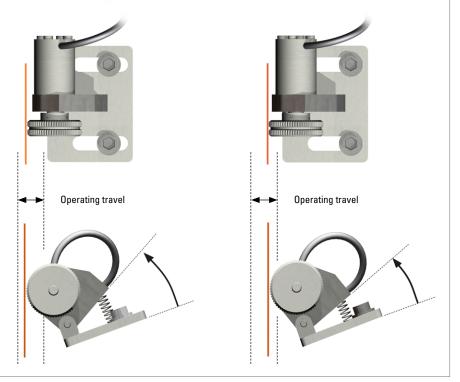
Technology in detail

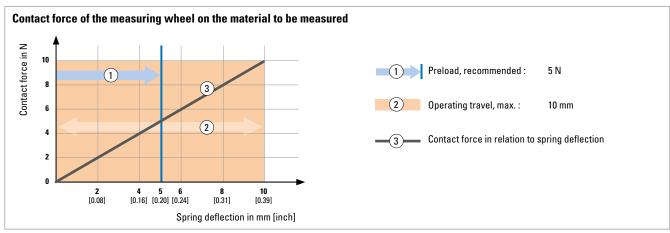


Setting the preload

The distance between the MWE11 measuring wheel system and the material to be measured can be adjusted via 2 slotted holes.

This simultaneously sets the desired preload of the spring.





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