

Performance-Line

Double measuring wheel system MWE62

With spring arm, contact force max. 40 N



With incremental encoder Sendix KIS50.

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 robust MWE62 measuring wheel system offers maximum spring deflection at maximum contact force to compensate for tolerances perpendicular to the transport movement of the material to be measured. The use of 2 measuring wheels always guarantees optimum contact with the material to be measured, even under difficult conditions.



Eigenschaften

Robust design

With flexible mounting options: vertical, horizontal or overhead. Encoder can be mounted on the spring arm in 120° steps.

- High contact reliability to the measured material The use of a second measuring wheel on the encoder ensures a high degree of contact with the measuring surface even under difficult conditions - high vibrations or unevenness.
- Suitable measuring wheels for all measuring surfaces Circumferences 300 mm or 12" – measuring wheel coating available with O-ring or double O-Ring, smooth or corrugated plastic, diamond knurl surface and tufted rubber.
- Contact force up to max. 40 N With stepless adjustable preload. To compensate for tolerances, the integrated spring ensures a working range of the measuring wheel up to a maximum of 80 mm vertical to the measuring surface.

Construction

 Spring arm: Encoder: 	MWE60 Clamping flange ø 58 mm	
3 2 x Measuring wheel:	Circumference 300 mm or 12" (Circumference 200 mm or 500 mm on request)	

Measuring wheel system



Performance-Line	Double measuring wheel s	system MWE62	With spring arm, contact force max. 40 N
Order code with incremental enc	oder 8.MWE	62 . 1 2 1 . X) 0	X . 50 X X . XXXX 2 0 0 0 0
 Measuring wheel, circumfer 31 = 300 mm / diamond knurl (alu 34 = 300 mm / plastic smooth (PL) 36 = 300 mm / ufted rubber (PU) 37 = 300 mm / 0-ring (NBR) 38 = 300 mm / double 0-ring (NB 39 = 300 mm / plastic corrugated 71 = 12" / diamond knurl (alumin 74 = 12" / plastic smooth (PU) 76 = 12" / ufted rubber (PU) 77 = 12" / 0-Ring (NBR) 78 = 12" / double 0-ring (NBR) 79 = 12" / plastic corrugated (PU) (Measuring wheels with circumfer 	erence / coating (minum) J) R) (PU) um)	 Mountee = KIS50 (other enc) 0 Utput c 4 = RS422 / 3 1 = RS422 / 3 2 = push-pu 3 = open col Type of c 2 = radial ca R = radial M 4 = radial M a = radial M Pulse ra 100, 120, 600, 1000 3000, 360 (z.B. 100 	ed encoder " incremental coders on request) circuit / supply voltage encoder 5 V DC 5 30 V DC JII / 5 30 V DC JII / 10 30 V DC JII / 10 30 V DC JII / 10 30 V DC connection able, 1 m [3.28'] PVC A12 connector, 5-pin A12 connector, 8-pin A23 connector, 12-pin ate 0, 200, 250, 256, 300, 360, 500, 512, 10, 1024, 1200, 2000, 2048, 2500, 500, 4096, 5000 D Impulse => 0100)

Calculation of the linear resolution

	Ме		Re	solution (pulses/mm)	
Calculation	mm=	Measuring wheel circumference Pulse number encoder	ppr mm	=	Pulse number encoder Measuring wheel circumference
Example Measuring wheel circumference = 300 mm Pulse number encoder = 3000 ppr	300 mm 3000 ppr =	0.1 mm / puls	3000 ppr 300 mm	=	10 pulses / mm

1) Clamping flange 58 mm / shaft ø 10 mm on both sides - only relevant when ordering an encoder as a single component.

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Performance-Line	Double measuring wheel syste	em MWE62	2 With spring arm, contact	force max. 40 N
Single components				Order no.
Spring arm MWE60		combinable	with Kübler encoders:	
	3	clamping fla incremental absolute:	inge ø 58 mm : Sendix Base KIS50, 5805 Sendix F58xx, M58xx, 58xx	8.MWE60.121.00.0000.0000
Measuring wheels		Option ①	circumference / coating	
Ū		21	300 mm / diamond knurl (aluminum)	8 0000 3317 0010
AAA		34	300 mm / plastic smooth (PII)	8 0000 3347 0010
		36	300 mm / tufted rubber (PU)	8.0000.3367.0010
2-12-2-5		37	300 mm / O-ring (NBR70)	8.0000.3377.0010
		38	300 mm / double O-ring (NBR70)	8.0000.3387.0010
		39	300 mm / plastic corrugated (PU)	8.0000.3397.0010
		71	12" / diamond knurl (aluminum)	8.0000.3717.0010
		74	12" / plastic smooth (PU)	8.0000.3747.0010
		76	12" / tufted rubber (PU)	8.0000.3767.0010
		77	12" / O-ring (NBR70)	8.0000.3777.0010
		78	12" / double O-ring (NBR70)	8.0000.3787.0010
		79	12" / plastic corrugated (PU)	8.0000.3797.0010
			(Measuring wheels with circumference 200 mm and 500 mm on request)	
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
Accessories				Order no.
0-rings For measuring wheels with 0-		ng wheels with O-ring:		
		Measuring v Measuring v	wheel circumference 300 mm, 1 = 37 wheel circumference 12", 1 = 77	8.0000.7000.0074 8.0000.7000.0075
		F		
•	•		ng wheels with double U-ring:	8 0000 7000 0077
		Measuring wheel circumference 300 mm, $0 = 30$ Measuring wheel circumference 12", $0 = 78$		8.0000.7000.0078
Further accessories can be found at: kueb Cables and connectors can be found at: ku	ler.com/accessories ebler.com/connection-technology			





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Measuring wheel system







Measuring wheel system



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Technical data

Mechanical characteristics spring arm				
Materials	spring spring bracket	spring steel aluminum		
Weight		670 g		
Contact force, max.		40 N		
Operating travel, max.		80 mm		
Working temperature range		-20 °C +70°C [-40 °F +176 °F]		
Shock resistance acc. EN 60068-2-27		1000 m/s², 6 ms		
Vibration resistance acc. EN 60068-2-6		100 m/s², 55 2000 Hz		

Approvals	
UL compliant acc. to	File no. E224618
CE compliant acc. to	EMV guideline 2014/30/EU RoHS guideline 2011/65/EU
UKCA compliant acc. to	EMC Regulations S.I. 2016/1091 RoHS Regulations S.I. 2012/3032

Dimensions

3 Spring

Dimensions in mm [inch]



Measuring wheel circumference	ø D mm (inch)
200 mm	63.7 [2.50]
300 mm	95.54 [3.76]
500 mm	159.23 [6.26]
12"	97.07 [3.82]

A for measuring wheel with coating:

Diamond knu (aluminum)	rl	Plastic smooth (PU)	
		5[0:08]	
1210.47	1 1	10.0 0.39	

12[0.47]

Tufted rubber (PU)

10.0[0.39]

12[0.47]

0-ring (NBR)



Double O-ring (NBR)

Ø59.5[2.34]

0

Plastic corrugated (PU)

(ØD



0

1



3X 120'

8[0.31]

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