

Measuring wheel systems

System components Compact-Line

Spring arm MWE20

Contact force max. 20 N



For incremental or absolute encoders with clamping flange \emptyset 36 mm or \emptyset 40 mm.

The MWE20 spring arm in combination with an encoder and a measuring wheel as measuring wheel system MWE21 is the ideal solution for reliable speed measurement, position detection and length measurement in applications with linear movements.

This compact measuring wheel system with adjustable preload can be integrated very flexibly even in the tightest installation spaces.



Features

· Contact force up to max. 20 N

With adjustable preload and mechanical spring deflection limitation for a long service life. The integrated spring ensures a working range of the measuring wheel of up to 16 mm vertical to the measuring surface to compensate for tolerances.

Suitable measuring wheels

Circumferences 200 mm or 6" - measuring wheel coating available with 0-ring, smooth plastic or diamond knurl surface.

· Compact design

Also suitable for the smallest installation space.

Flexible use

Multiple mounting options - horizontal, vertical or overhead for quick and easy installation. Encoders can be mounted on both sides of the spring arm in 30° steps.

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Order code	8.MWE20		X	X	1		00		0000		0000
	Type		a	a							

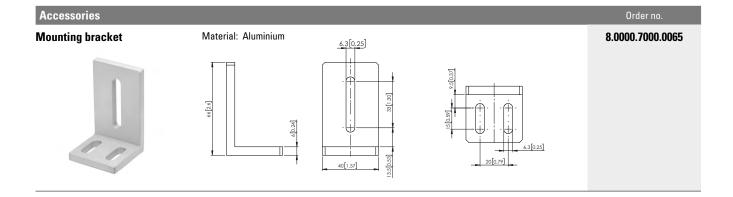
- For encoder with clamping flange
- $1 = \emptyset$ 40 mm Kübler Sendix encoder incremental KIS40, 3610
- $2 = \emptyset 36 \text{ mm} \text{K\"ubler Sendix encoder absolute F36xx}, M36xx$

2 Mounting bracket

- 1 = without mounting bracket
- 2 = with mounting bracket

Scope of delivery

- Spring arm
- 3 screws for encoder mounting





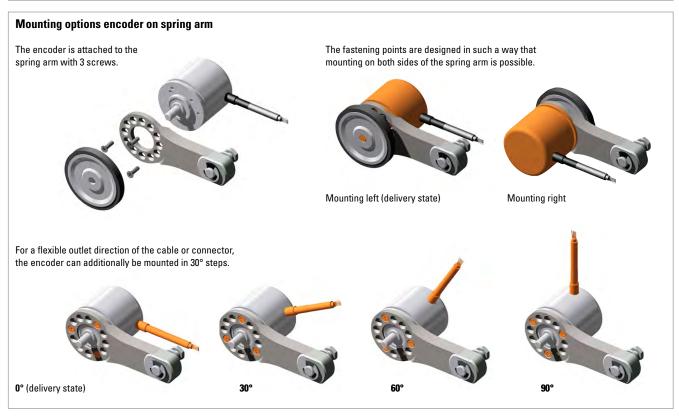
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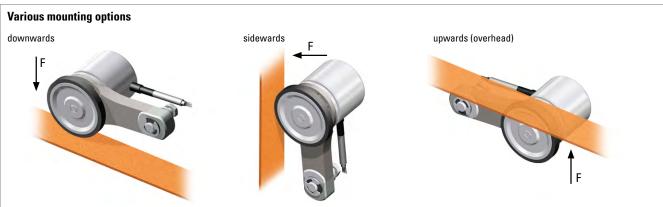
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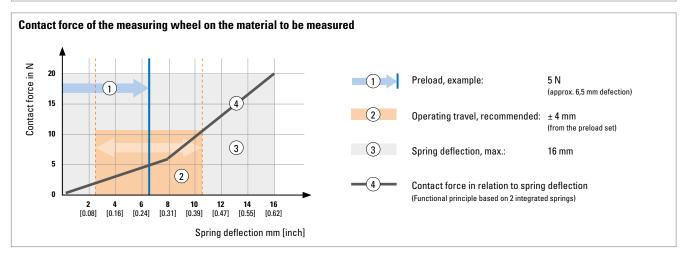
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Technology in detail (operating principle of the MWE20 spring arm in the MWE21 measuring wheel system)









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Technical data

Mechanical characteristics					
Materials	spring spring arm	spring steel aluminum			
Weight		37 g			
Contact force, max.		20 N			
Spring deflection, max.		16 mm			
Preload, recommended		5 N (approx. 6,5 mm spring deflection)			
Operating travel, recommendation (continuous)	nded	±4 mm ¹⁾ (from the recommended preload)			
Spring operating life		2.0 Mio. cycles ²⁾			

Approvals	
UL compliant acc. to	File no. E224618
CE compliant acc. to	RoHS guideline 2011/65/EU
UKCA compliant acc. to	RoHS Regulations S.I. 2012/3032

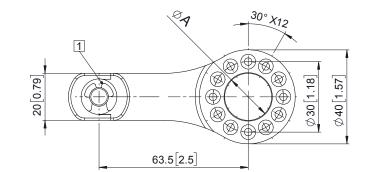
Dimensions

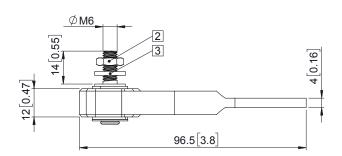
Dimensions in mm [inch]

Spring arm

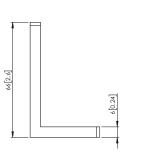
- 1 External clamping ring type E
- 2 Hexagon nut M6
- 3 Toothed washer

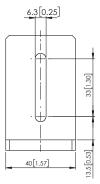
Order code	for encoder	A mm [inch]				
1	incremental KIS40, 3610	20 [0.79]				
2	absolute F36xx, M36xx	24 [0.94]				

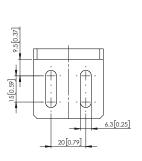




Mountig bracket







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Operating deflection is measured after preload applied and with/for continuous operations.
Life of spring is measured with operating deflection at 1 Hz.