System components Performance-Line | **Spring arm MWE60** | **Contact force max. 40 N**



For encoders with clamping flange ø 58 mm.

The MWE60 spring arm in combination with an encoder and a measuring wheel as measuring wheel system MWE61 or MWE62 is the ideal solution for reliable speed measurement, position detection and length measurement in applications with linear movements.

These robust measuring wheel systems offer maximum spring deflection at maximum contact force to compensate for tolerances vertical to the transport movement of the material to be measured.

To the measuring wheel system MWE61 >
To the double measuring wheel system MWE62 >

Features

- **High, variable contact pressure up to 40 N**
  During installation, the desired contact pressure can be easily adjusted according to requirements. Depending on the installation situation, the springs allow a maximum Operating travel of 80 mm.
- **Suitable measuring wheels**
  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.
- **Flexible mounting options**
  The measuring wheel system can be installed vertically, horizontally or overhead. The encoder can be mounted on the spring arm in 120° steps.

Order code

8.MWE60	.	1 ❶	21	.	00	.	0000	.	0000
Type									

❶ *For encoder with clamping flange*
1 = ø 58 mm – Kübler Sendix encoder incremental KIS50, 5000, 5805
– Kübler Sendix encoder absolute 586x, M586x, F586x

Scope of delivery
- Spring arm
- 3 screws for encoder mounting

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Technology in detail (operating principle of the MWE60 spring arm in the MWE61 or MWE62 measuring wheel system)

Mounting

The encoder is attached to the spring arm with 3 screws.



For a flexible outlet direction of the cable or connector, the encoder can additionally be mounted in 120° steps.



0° (delivery state)



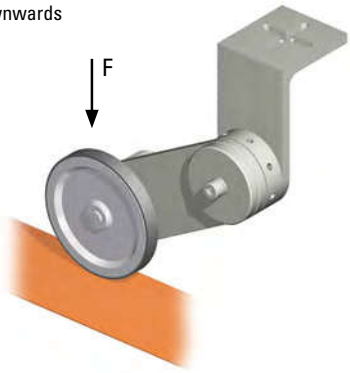
120°



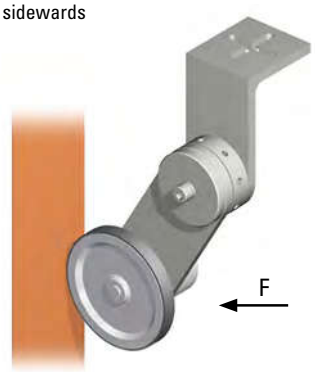
240°

Various mounting options

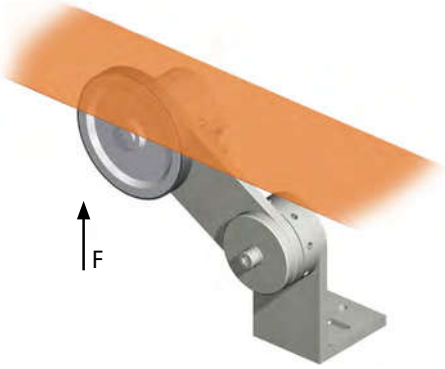
downwards



sidewards



upwards (overhead)



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System components Performance-Line | **Spring arm MWE60** | **Contact force max. 40 N**

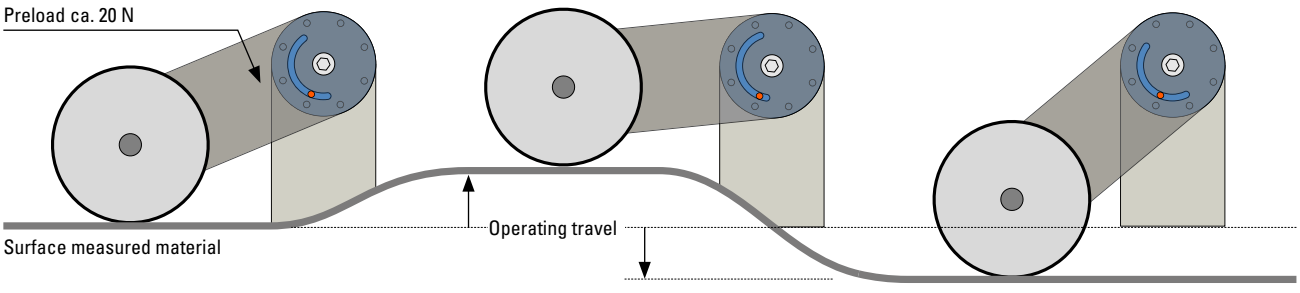
Technology in detail (operating principle of the MWE60 spring arm in the MWE61 or MWE62 measuring wheel system)

Setting the preload

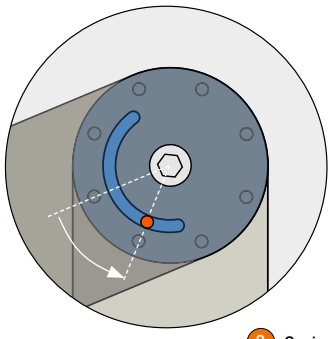
1. Mount the measuring wheel system on the application and release screw.
2. Turn the adjustment ring with a thin allen key or screwdriver until the desired preload is reached.
3. As a guide: Internal detent points in 45° steps correspond to approx. 20 N.
   Hold the position of the adjustment ring and tighten the screw again.



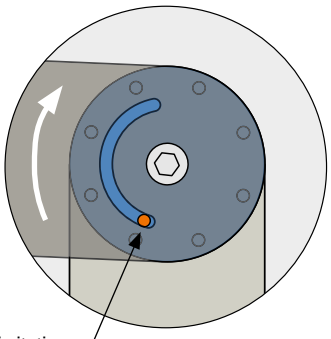
Installation example



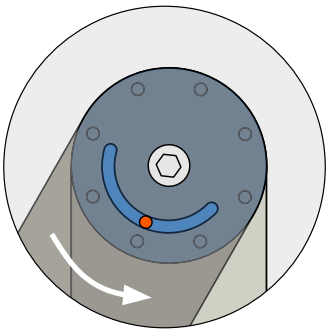
Preload



Contact force max.

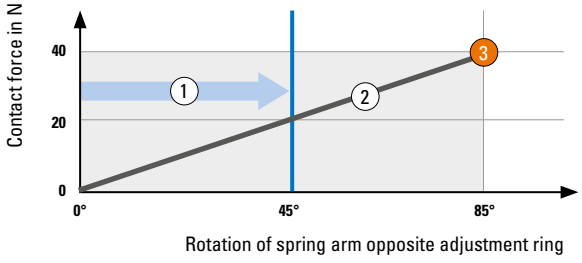


Contact force min.



3 Spring deflection limitation

Contact force of the measuring wheel on the material to be measured



1 Preload (example): 20 N
by turning the setting wheel by approx. 45°
- corresponds to a detent point

2 Contact force

3 Spring deflection limitation to protect against overload

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System components Performance-Line | **Spring arm MWE60** | **Contact force max. 40 N**

Technical data

Mechanical characteristics

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

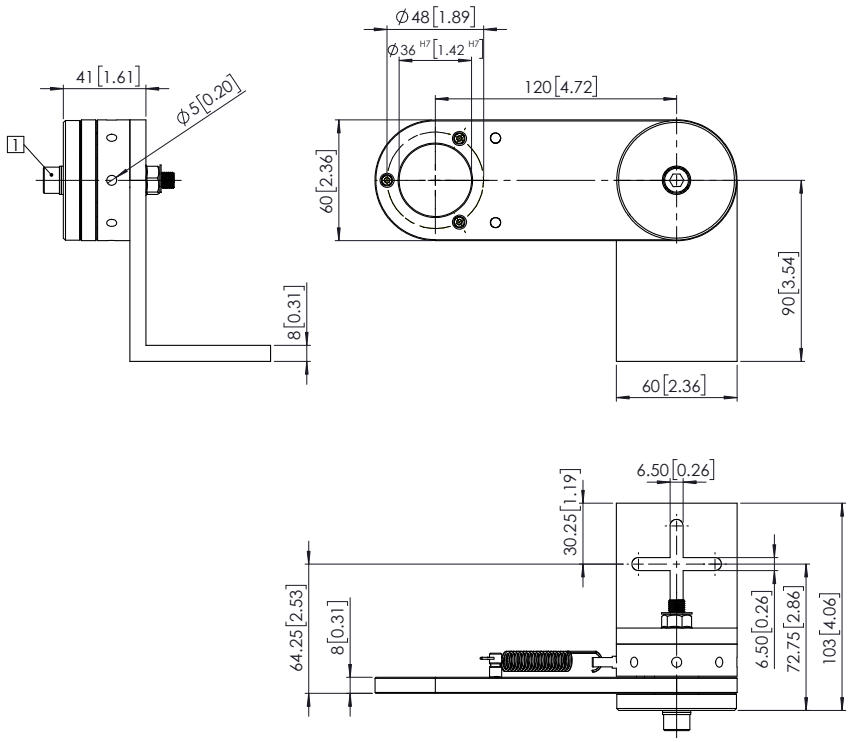
Approvals

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

Dimensions

Dimensions in mm [inch]

1 Screw M8x60 DIN912 (SW6)



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