

Datasheet



Electronic meter counter with flexible length adjustment.

Features at a glance

- Electronic length measuring system including electronic measuring display.
- Length of base frame variably adjustable (400 to 600 mm).
- Measurement of linear movements directly on the surface of running materials.
- Individual adaptation possibilities through different measuring wheel sizes (up to 500 mm/revolution) offer numerous applications in various machine industries.
- Incremental magnetic sensor or magnetic ring for rotary distance measurement (length).
- Robust design with easy replacement of the measuring wheels.
- Programmable measuring display: counting direction, change between incremental and absolute measurement, scaling factor adjustable, changeable units / resolution, conversion from cm to inch.
- Supply battery-powered or with external power supply.
- Measuring display directly attached or externally in an installation or mounting housing.



Depending on the application, we offer you the electronic meter counter in a wide variety of designs with customer-specific options.

Standard variant Example

Electronic meter counter with programmable measuring display, direct mounting and measuring wheel with 500 mm circumference

MZ/E-LX-B-F8P/DA-P-X-500/G

- Flexible length adjustment: variably adjustable from 400 to 600 mm
- Measuring display F8P (battery-powered), programmable, direct mounting in mounting housing
- Magnetic sensor with magnetic ring
- Measuring wheel with 500 mm circumference, tread PU, smooth, vulcanized, corpus aluminium



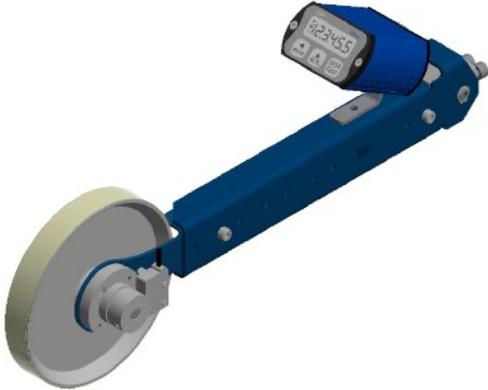


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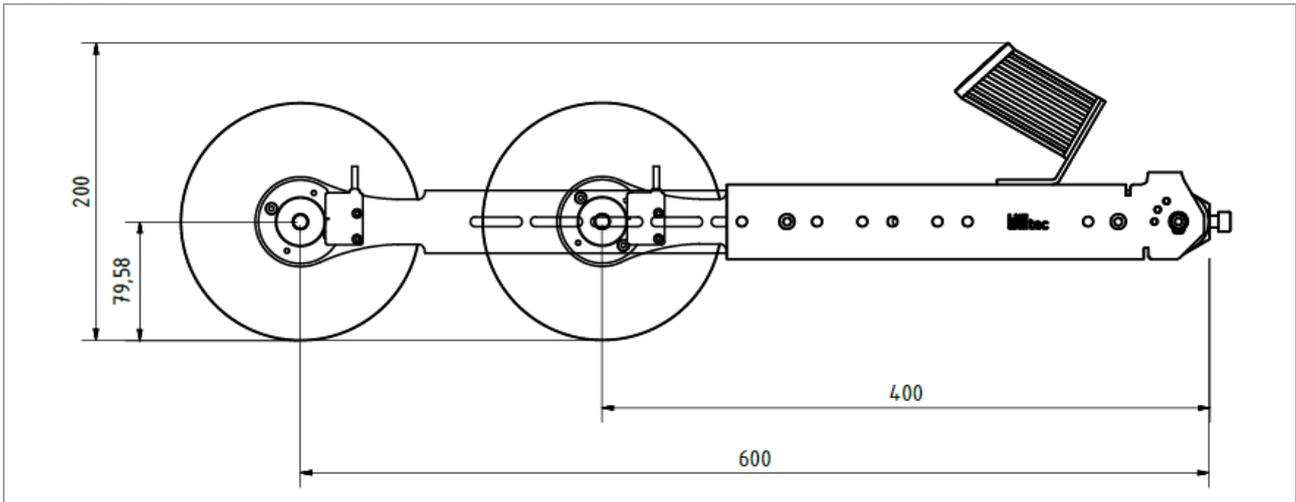
Standard variants Example

MZ/E Light XL

Electronic meter counter with programmable measuring display, direct mounting and measuring wheel with 500 mm circumference

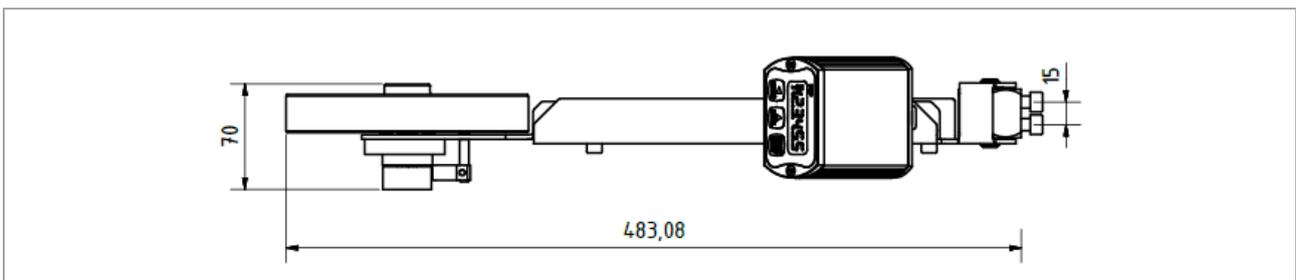
MZ/E-LX-B-F8P/DA-P-X-500/G	
<ul style="list-style-type: none"> • Flexible length adjustment • Measuring display F8P (battery-powered), programmable, direct mounting in mounting housing • Magnetic sensor with magnetic ring • Measuring wheel with 500 mm circumference, tread PU, smooth, vulcanized, corpus aluminium 	 <p style="text-align: right;">Art. No.: 28051</p>

Dimensions



Length of base frame: 400-600 mm, variable

Side view



All dimension in [mm]

Top view

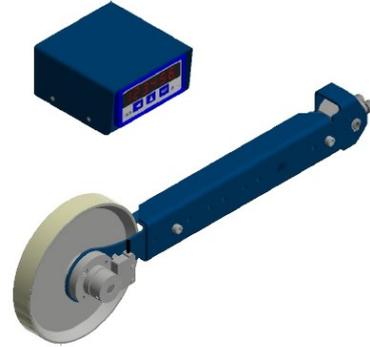
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MZ/E Light XL

Electronic meter counter with remote programmable measuring display and measuring wheel with 500 mm circumference

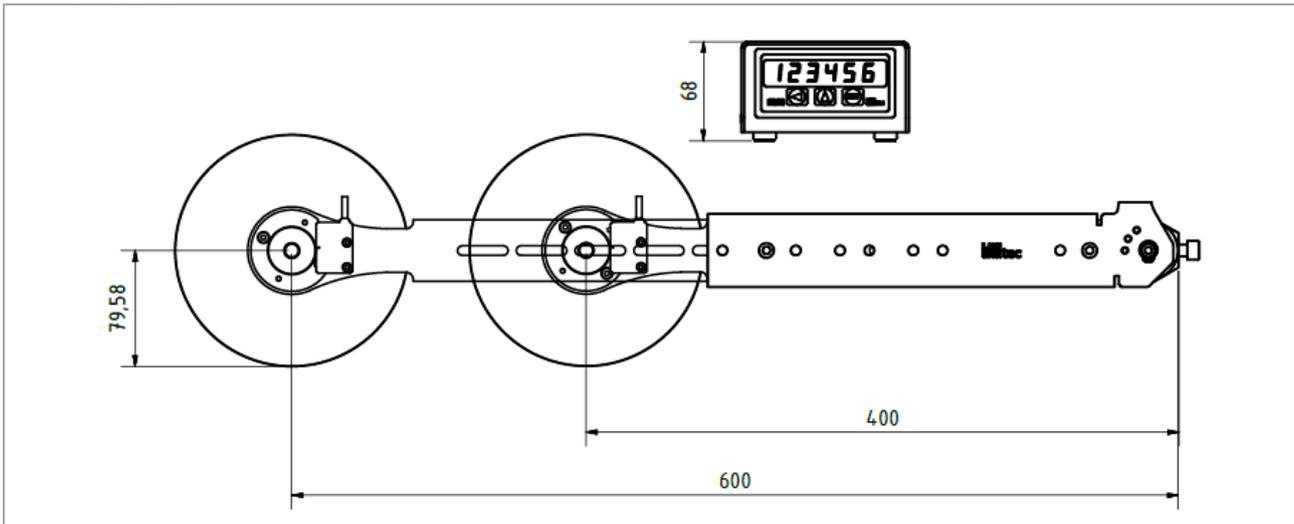
MZ/E-LX-230-EP2/FA-P-2.0-500/G

- Flexible length adjustment
- Measuring display EP2 (230 VAC) programmable, remote display in mounting housing, cable length 2 m
- Magnetic sensor with magnetic ring
- Measuring wheel with 500 mm circumference, tread PU, smooth, vulcanized, corpus aluminium



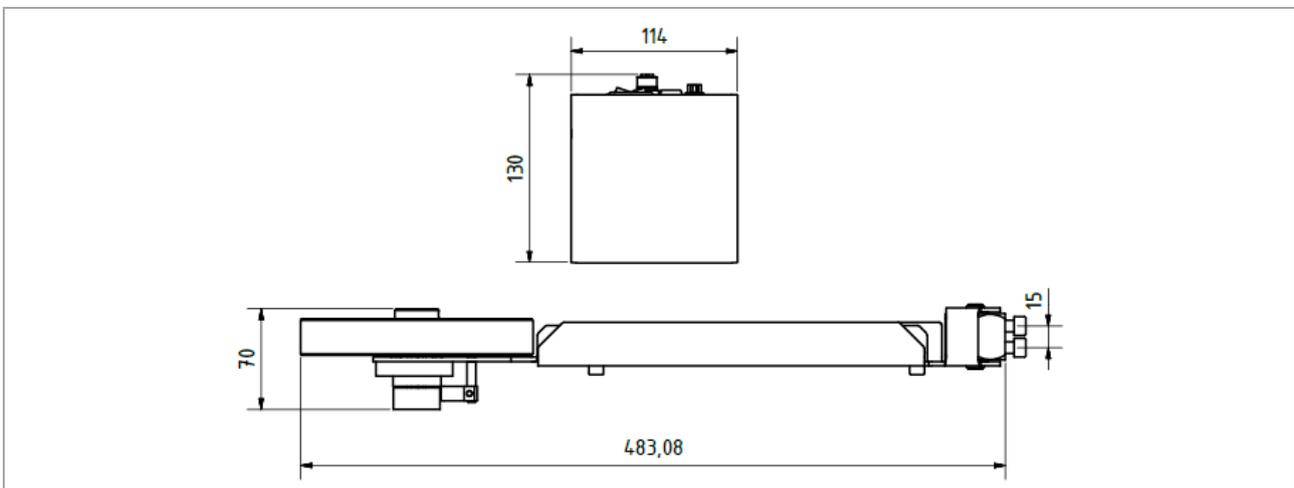
Art. No.: 28050

Dimensions



Length of base frame: 400-600 mm, variable

Side view



All dimensions in [mm]

Top view

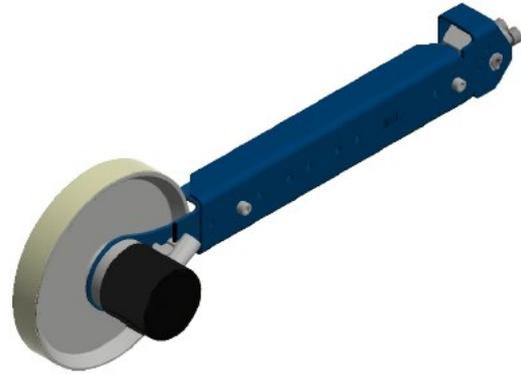
Datasheet

MZ/E Light XL

Electronic meter counter without measuring display, with rotary encoder and measuring wheel with 500 mm circumference

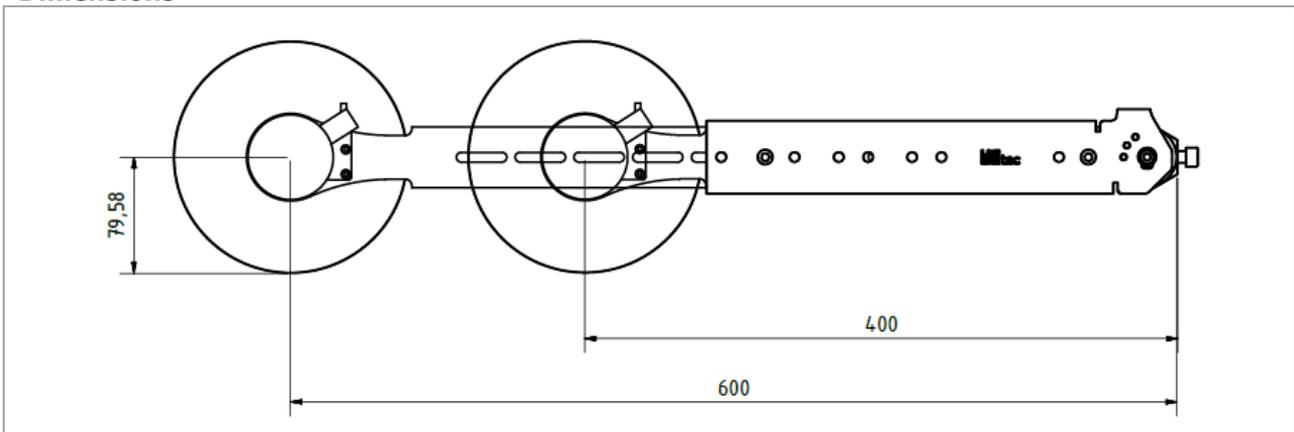
MZ/E-LX-24-WIG110/Y-500-5.0-500/G

- Flexible length adjustment
- (24 VDC)
- Rotary encoder type WIG110, Output signal: Push Pull 500 pulses/revolution
- Cable length 5 m
- Measuring wheel with 500 mm circumference, tread PU, smooth, vulcanized, corpus aluminium



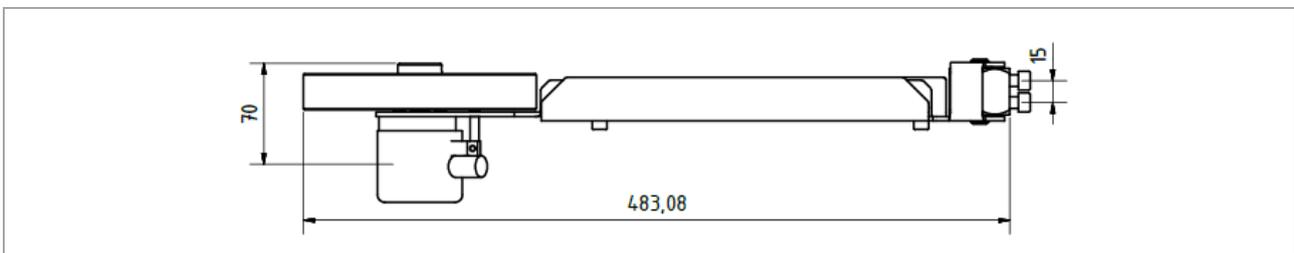
Art. No.: 28053

Dimensions



Length of base frame: 400-600 mm, variable

Side view



All dimensions in [mm]

Top view

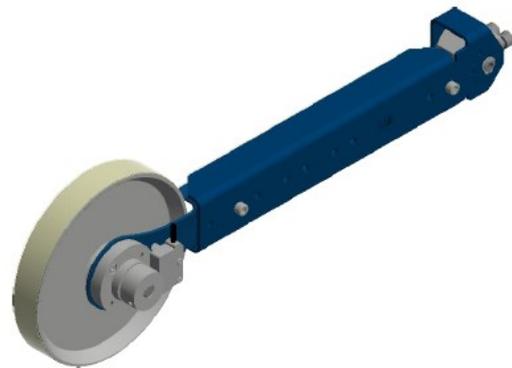
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MZ/E Light XL

Electronic meter counter without measuring display, with magnetic sensor and magnetic ring
And measuring wheel with 500 mm circumference

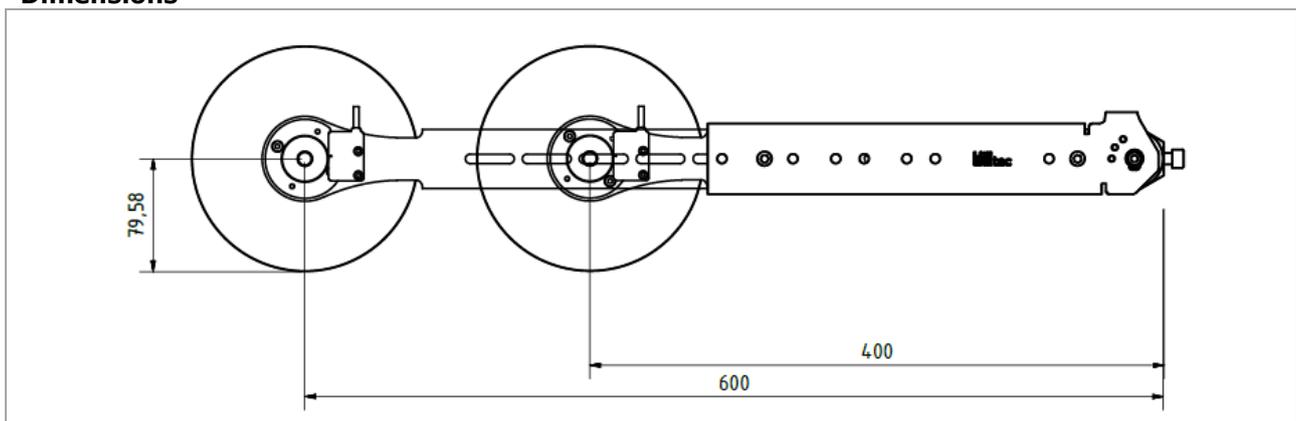
MZ/E-LX-5-LHR5/L-250-5.0-500/G

- Flexible length adjustment
- (5 VDC)
- Magnetic sensor type LHR5/1, output signal: Line Driver
Resolution: 250 pulses/revolution
- Cable length 5 m
- Measuring wheel with 500 mm circumference, tread PU, smooth, vulcanized, corpus aluminium



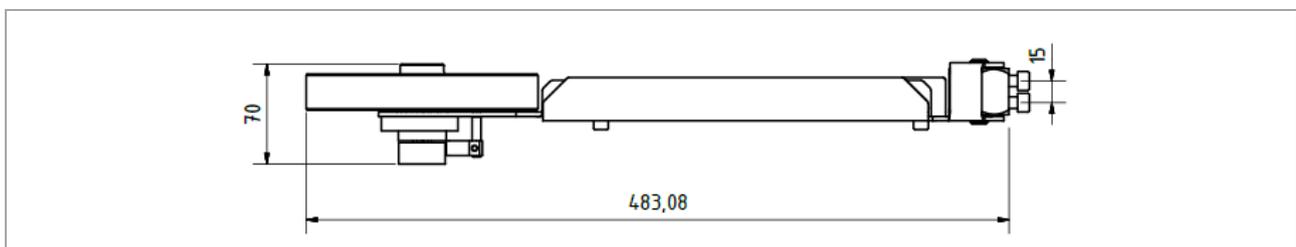
Art. No.: 28052

Dimensions



Length of base frame: 400-600 mm, variable

Side view



All dimensions in [mm]

Top view



For information on mechanical and electrical characteristics, see page 6.
The order code for other designs can be found on pages 8 and 9.

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Mechanical characteristics

Measuring wheel			
Circumference [C]	200 mm	304,8 mm (=12 Inches)	500 mm
Drilling	Ø10 mm		
Material	Blank Surface	Aluminium Aluminium [R]; Polyurethane [G; RI; N]; Rubber [GG; GR]	

Measuring system	
Weight	approx. 1,0 - 1,5 kg depending on design
Repeatability	±0,4 %
Measuring speed	< 400 m/min

Electrical characteristics

Measuring system	
Interface	RS485 (SUBD9; 9 pins); only with external power supply
Port DA/FA	Open cable end (standard) M12 connector; 8 pins (on request)

Sensors

	Rotary encoder	Magnetic sensor
	WIG110	LHR5/1
Incremental		
Power supply	5 VDC or 24 VDC	5 VDC or 24 VDC
Resolution (standard) ppr	1/ 50/ 100/ 250/ 200/ 500/ 1000/ 5000	5000
Output signal	PP = Push Pull; LD = Line Driver	
IP-rating	IP65	IP67

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Measuring display

Measuring display directly attached or externally in an installation or mounting housing

Mechanical characteristics	Direct display	Remote display	
	Mounting housing	Inst. housing	
Battery-powered			
C10 <ul style="list-style-type: none"> Display range: 99,999 Digit height: 8.0 mm Measuring system: integrated Resolution: 5.000 ppr Power supply: 1.5 VDC 			
F8P <ul style="list-style-type: none"> Display range: 999,999 Digit height: 10.0 mm Measuring system: integrated Resolution: 5.000 ppr Power supply: 3.6 VDC 			
WVZ11 <ul style="list-style-type: none"> Display range: two lines each 99.9999 Digit height: 8.0 mm Measuring system: LHR5 Resolution: 5,000 ppr Power supply: 3.6 VDC or 10 to 30 VDC 	<p style="text-align: center;">Figure</p> <p style="text-align: center;">On request</p>	<p style="text-align: center;">Figure</p> <p style="text-align: center;">On request</p>	
External power supply			
EP1-S <ul style="list-style-type: none"> Display range: 99.999999 Digit height: 8.0 mm Measuring system: LHR5 Resolution: 5.000 ppr Power supply: 24 VDC or 230 VAC 			
EP2-I <ul style="list-style-type: none"> Display range: 99.9999 Digit height: 14.0 mm Measuring system: LHR5 Resolution: 5.000 ppr Power supply: 24 VDC or 230 VAC 			
VZE <ul style="list-style-type: none"> Display range: two lines each 99.9999 Digit height: 8.0 mm Measuring system: LHR5 Resolution: 5,000 ppr Power supply: 24 VDC or 230 VAC 	<p style="text-align: center;">Figure</p> <p style="text-align: center;">On request</p>	<p style="text-align: center;">Figure</p> <p style="text-align: center;">On request</p>	

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Order example Electronic meter counter with flexible length adjustment and measuring display

MZ/E - **LX** - **B** - **F8P/DA** - **P** - **X** - **500/G**

Type

LX = Light; with flexible length adjustment
Length of base frame: 400-600 mm, variable

Power Supply

B = battery-powered
24 = 24 VDC/ external power supply
230 = 230 VAC/ external power supply

Display /Installation Position

C10 = battery-powered
F8P = battery-powered
EP7 = battery-powered
EP1 = EP1-S; external power supply
EP2 = EP2-I; external power supply
VZE = external power supply
VZ24 = external power supply

Display /Installation Position

/DA = direct display; mounting housing
/FA = remote display; mounting housing
/FE = remote display; installation housing

Resolution

P = programmable (standard 0.01m)
X = custom programming on request

Cable Length [m]

X = direct display; mounting housing
1.0; 2.0; 5.0; 10 = remote display
(observe German decimal separator “,”)

Measuring Wheel Circumference [mm] /Tread

500; 304,8; 200
(observe German decimal separator “,”)

Measuring Wheel Circumference [mm] /Tread

/G = smooth
/RI = corrugated
/N = studded
/R = crisscross knurled
/GG = rubber, smooth
/GR = rubber, knurled



Variants that cannot be configured from the ordering example are available on request as a special version.

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Order example Electronic meter counter with flexible length adjustment without measuring display

MZ/E - **LX** - **5** - **LHR5/L** - **250** - **5,0** - **500/G**

Type

LX = Light; with flexible length adjustment
Length of base frame: 400-600 mm, variable

Power Supply

5 = 5 VDC
24 = 24 VDC

Measuring System /Output Signal

LHR5 = LHR5/1 sensor
WIG110 = rotary encoder

Measuring System /Output Signal

/Y = Push Pull
/L = Line Driver

Resolution [ppr]

1; 50; 100; 200; **250**; 500; 1000; 5000
further resolutions on request

Cable Length [m]

1,0; 2,0; **5,0**; 10
(observe German decimal separator ",")

Measuring Wheel Circumference [mm] /Tread

500; 304,8; 200
(observe German decimal separator ",")

Measuring Wheel Circumference [mm] /Tread

/G = smooth
/RI = corrugated
/N = studded
/R = crisscross knurled
/GG = rubber, smooth
/GR = rubber, knurled



Variants that cannot be configured from the ordering example are available on request as a special version.

The manufacturer reserves the right to make changes to the products that it deems necessary for their improvement without prior notice.