Meter Counter - Electronic MZ/E Light 90 Degrees

lilltec Messtechnik eK

Datasheet

Electronic meter counter with measuring wheel rotated by 90 degrees.

Features at a glance

- Electronic length measuring system including electronic measuring display.
- Meter counter with measuring wheel rotated by 90 degrees.
- 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-L90-B-F8P/DA-P-X-500/G

- Measuring wheel rotated by 90 degrees
- Measuring display F8P (battery-powered), direct mounting in mounting housing
- Magnetic sensor with magnetic ring
- Resolution programmable
- Measuring wheel with 500 mm circumference, tread PU, smooth, volcanized, corpus aluminium



Measure

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Datasheet

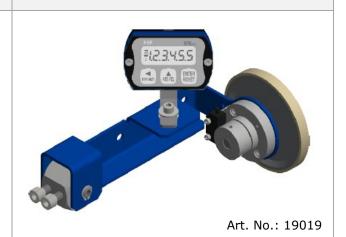
Standard variants Examples

MZ/E Light 90 Degrees

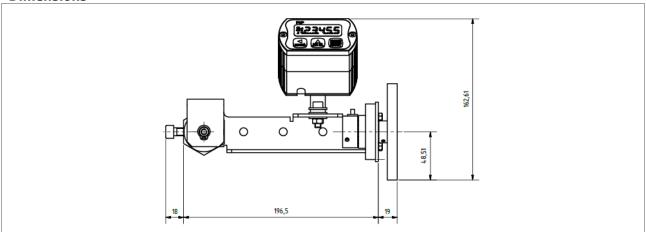
Electronic meter counter with programmable measuring display, direct mounting and measuring wheel with 200 mm circumference

MZ/E-L90-B-F8P/DA-P-X-200/G

- Measuring wheel rotated by 90 degrees
- Measuring display F8P (battery-powered), direct mounting in mounting housing
- Magnetic sensor with magnetic ring
- Resolution programmable
- Measuring wheel with 200 mm circumference, tread PU, smooth, volcanized, corpus aluminium

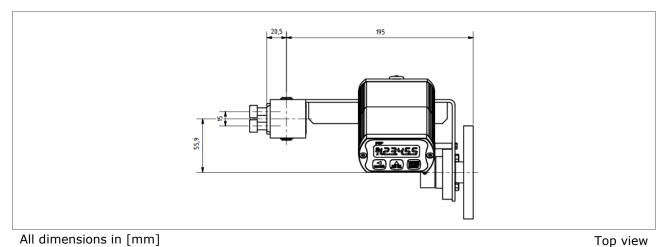


Dimensions



Measuring wheel rotated by 90 degrees

Side view



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Datasheet

MZ/E Light 90 Degrees

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

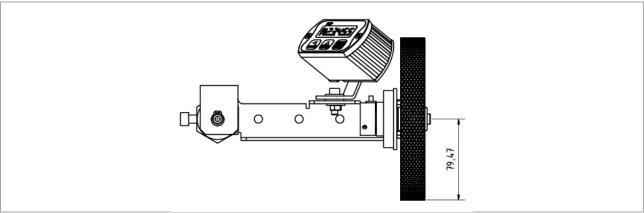
MZ/E-L90-B-F8P/DA-P-X-500/GR

- Measuring wheel rotated by 90 degrees
- Measuring display F8P (battery-powered), direct mounting in mounting housing
- Magnetic sensor with magnetic ring
- Resolution programmable
- Measuring wheel with 500 mm circumference, tread rubber, knurled, corpus aluminium



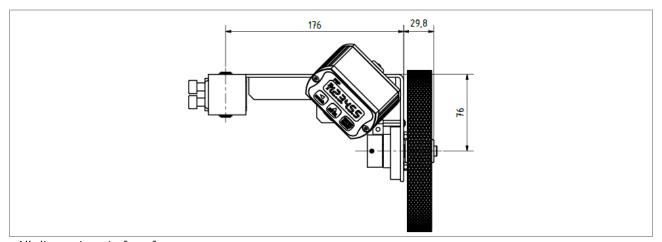
Art. No.: 32638

Dimensions



Measuring wheel rotated by 90 degrees

Side view



All dimensions in [mm]

Top view

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Control

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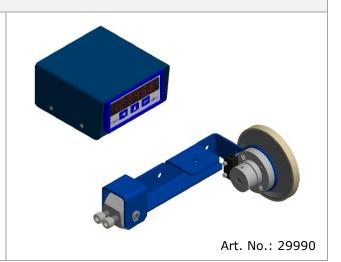
Datasheet

MZ/E Light 90 Grad

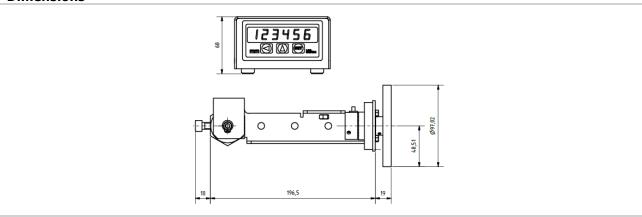
Electronic meter counter with remote programmable measuring display and measuring wheel with 200 mm circumference

MZ/E-L90-230-EP2/FA-P-2.0-200/G

- Measuring wheel rotated by 90 degrees
- Measuring display EP2 (230 VAC) programmable, remote display in mounting housing, cable length 2 m
- Magnetic sensor with magnetic ring
- Measuring wheel with 200 mm circumference, tread PU, smooth, vulcanized, corpus aluminium

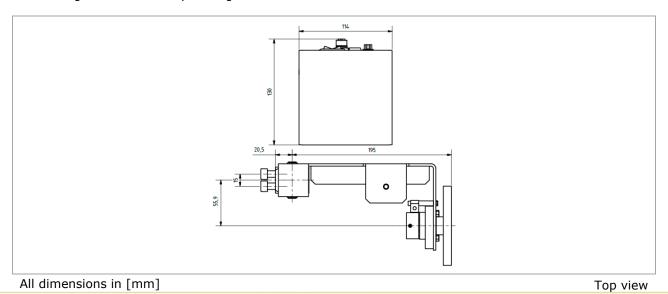


Dimensions



Measuring wheel rotated by 90 degrees

Side view



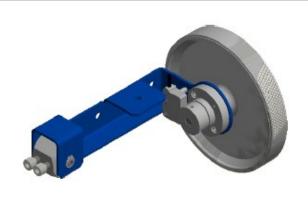
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MZ/E Light 90 Grad

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

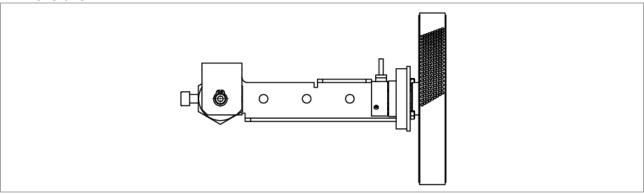
MZ/E-L90-24-LHR5/Y-250-2.0-500/N

- Measuring wheel rotated by 90 degrees
- (24 VDC)
- Magnetic sensor type LHR5/1, output signal: Push Pull Resolution: 250 pulses/revolution
- Cable length 2 m
- Measuring wheel with 500 mm circumference, tread PU, studded, vulcanized, corpus aluminium



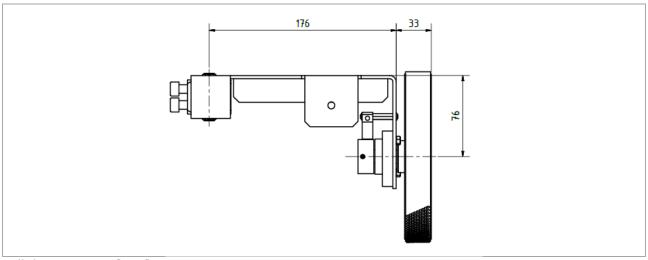
Art. No.: 33269

Dimensions



Measuring wheel rotated by 90 degrees

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.



Datasheet

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		Co	
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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Datasheet

Measuring display

suring display directly attached or exte	Direct display	Remote	display
Mechanical characteristics	Mounting		Inst. housing
Battery-powered			_
 Display range: 99,999 Digit height: 8.0 mm Measuring system: integrated Resolution: 5.000 ppr Power supply: 1.5 VDC 	234657	<u>234657</u> ≈ ≈	234557 8 8 8
F8P			
 Display range: 999,999 Digit height: 10.0 mm Measuring system: integrated Resolution: 5.000 ppr Power supply: 3.6 VDC 	SIR3455	FOR PARTY PA	FLZ.3.4.5.5
WVZ11			
 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 	Figure On request	Figure On request	**************************************
External power supply			
EP1-S			
 Display range: 99.999999 Digit height: 8.0 mm Measuring system: LHR5 Resolution: 5.000 ppr Power supply: 24 VDC or 230 VAC 			IN SET US.
EP2-I			
 Display range: 99.9999 Digit height: 14.0 mm Measuring system: LHR5 Resolution: 5.000 ppr Power supply: 24 VDC or 230 VAC 	23456	12345 B	123456 mm 4 ss u.
VZE			
 Display range: two lines each 99.9999 Digit height: 8.0 mm Measuring system: LHR5 Resolution: 5,000 ppr 	Figure	Figure	999999
Power supply:24 VDC or 230 VAC	On request	On request	

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Datasheet

Ordering example Meter counter with measuring wheel rotated by 90 degrees and measuring display

L90 -В -F8P/DA -MZ/E 200/G Type L90 = Light; measuring wheel rotated by 90 degrees **Power Supply** = 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 = direct display; mounting housing /DA /FA = remote display; mounting housing = remote display; installation housing /FE Resolution [ppr] = programmable (standard 0.01m) = 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 = rubber, smooth /GG /GR = rubber, knurled

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

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Meter Counter - Electronic MZ/E Light 90 Degrees



Datasheet

L90 -24 -LHR5/Y -MZ/E 250 -5,0 -500/N Type L90 = Light; measuring wheel rotated by 90 degrees **Power Supply** 5 = 5 VDC = 24 VDC 24 Measuring System / Output Signal LHR5 = LHR5/1 sensor **WIG110** = rotary encoder Measuring System / Output Signal = Push Pull /L = Line Driver **Resolution** [ppr] 1; 50; 100; 200; **250**; 500; 1000; 5000

Ordering example Meter counter with measuring wheel rotated by 90 degrees without measuring display

Cable Length [m]

further resolutions on request

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

= smooth /G /RI = corrugated = studded /N

/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.

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Control