

Datasheet

Meter Counter / Electrical – Light – with display

- robust design and easy replacement of measuring wheels
- programmable measurement display (inch, mm, cm, m) & (chain dimension – offset)
- up to 500 mm/revolution
- battery or external power supply
- direct measurement display or remote in mountable or installation housing.

standard variants

MZ/E-L-B-C10/DA-P-X-500/G

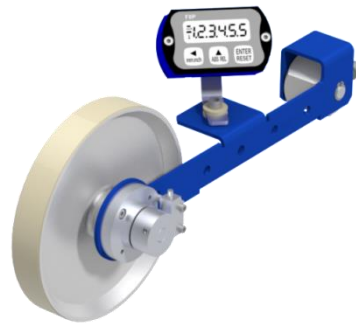
- direct-display C10 in mountable housing, battery-powered
- measuring wheel with 500 mm circumference and smooth surface



item no: 16810

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

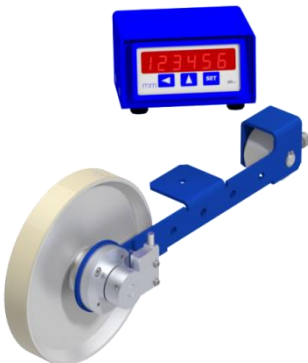
- direct-display F8P in mountable housing, battery-powered
- measuring wheel with 500 mm circumference and smooth surface



item no: 17528

MZ/E-L-230-EP2/FA-P-2,0-500/G

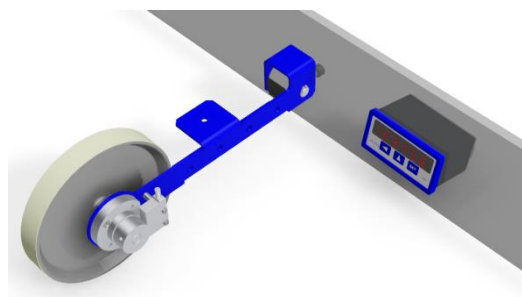
- remote display EP2 in mountable housing, VDC 230V, cable length 2m
- measuring wheel with 500 mm circumference and smooth surface



item no.: 17143

MZ/E-L-230-EP2/FE-P-2,0-500/G

- remote display EP2 in installation housing, VDC 230V, cable length 2m
- measuring wheel with 500 mm circumference and smooth surface



item no.: 19884

i Note

- You can find information about mechanical data, general electric data and dimensions on pages 2 and 3.
- You can find the order key for further variants on pages 5 and 6.

Datasheet

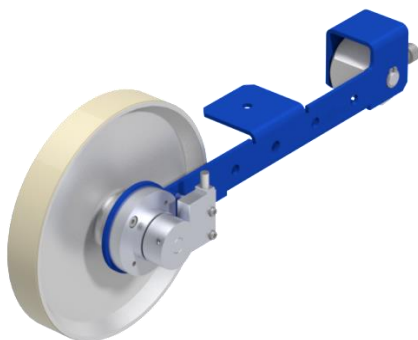
Meter Counter / Electrical – Light – without Indicator

- EMC protected rotary encoder
- 500 mm/revolution
- external power supply
- output signal Push Pull or Line Driver
- resolution 50 to 5000 pulses/ revolution

Standard Variations

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

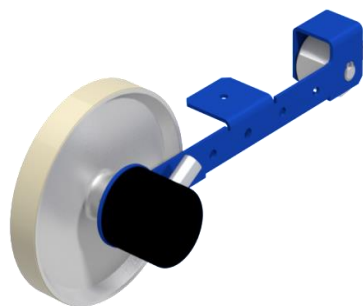
- magnetic sensor LHR5 with 250 puls./rev., VDC 5V, cable length 5m
- measuring wheel with 500 mm circumference and smooth surface



item no.: 19885

MZ/E-L-24-WIG110/Y-500-5,0-500/G

- encoder WIG110 with 500 puls./rev., VDC 24V, cable length 5m
- measuring wheel with 500 mm circumference and smooth surface



item no.: 17644

i Note

- You can find information about dimensions on page 3.

General Mechanical Data

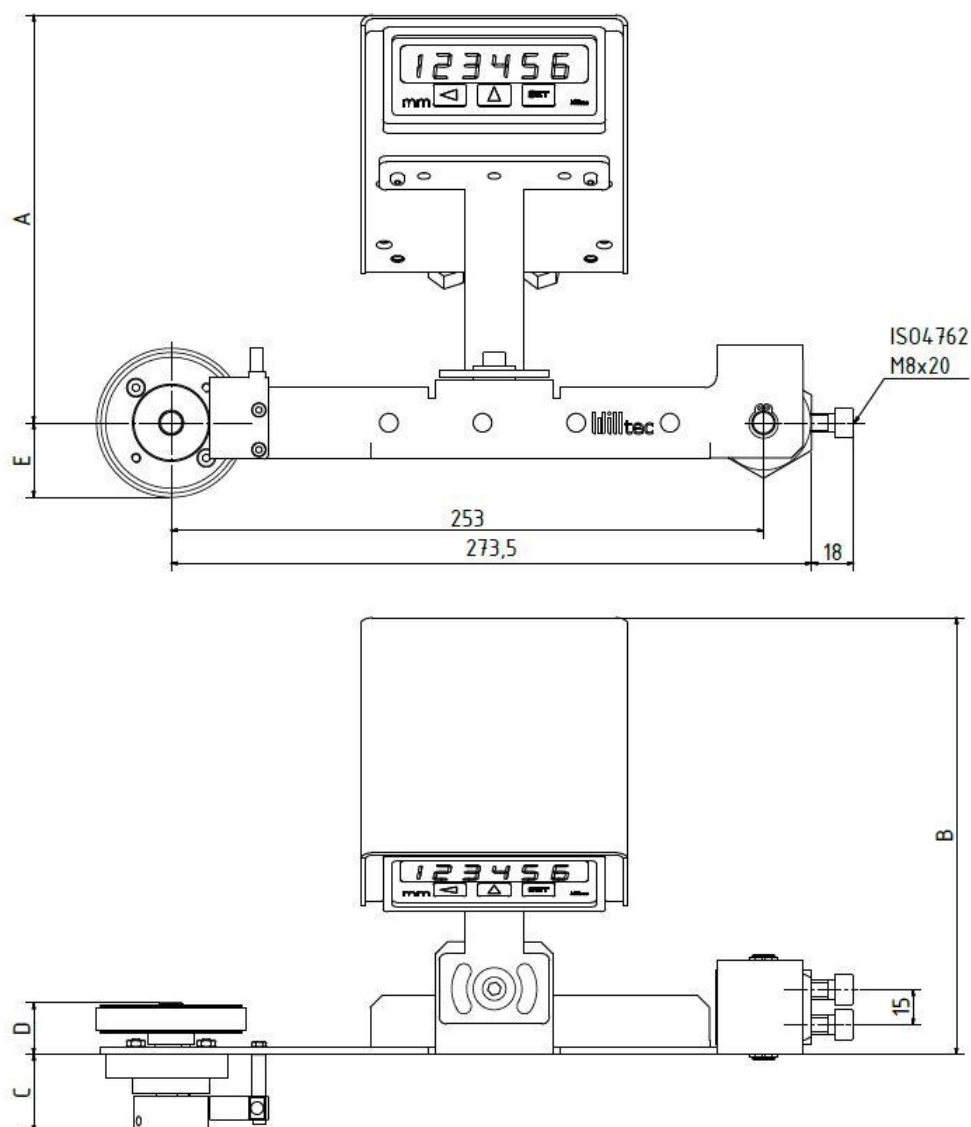
Measuring Eheel				
Circumference [C]		200 mm	304.8 mm (=12 inches)	500 mm
Through Bore		Ø10 mm		
Material	Blank Surface	aluminum aluminum [R]; polyurethane [G; RI; N]; rubber [GG; GR]		
System				
Weight		~ 1.0 – 1.5 kg	depending on design	
Repeatability		±0.4 %		
Movement Speed		< 400 m/min		

General Electrical Data

Interface	RS485 (SUBD9; 9 pins)
Measuring System Port DA/FA	standard: open cable end. M12; 8 pins (on request)

Datasheet

Dimensions



	MZ/E-L				
	A	B	C	D	E
with indicator					
C10/DA	~183	~140	33		
F8P/DA	~96	~77	33		
EP7/DA	-	-	45		
EP1/DA	~166	~178	33		
EP2/DA	~174	~178	33		
without indicator					
LHR5/1	33	48	33		
SCA24	33	48	49		
WIG110					
measuring wheel				22	31.83
MR200				23	48.51
MR304				36	79.58

Datasheet

Displays

Mechanical Data	Direct-Display	Remote Display	
	Mountable Housing	Mountable Housing	Installation Housing
Battery-Powered			
C10 ->display range: 99 999 ->digit height: 8.0 mm ->measuring system: integrated ->resolution: 5 000 puls./ rev. ->power supply: 1.5 VDC			
F8P ->display range: 999 999 ->digit height: 10.0 mm ->measuring system: integrated ->resolution: 5 000 puls./ rev. ->power supply: 3.6 VDC			
EP7 ->display range: 99 999 ->digit height: 7.5 ->measuring system: integrated ->resolution: 4 000 puls./ rev. ->power supply: 3.6 VDC		display only available as direct display	display only available as direct display
External Power Supply			
EP1-S ->display range: 99 999 999 ->digit height: 8.0 mm ->measuring system: LHR5 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC			
EP2-I ->display range 99 999 ->digit height: 14.0 mm ->measuring system: LHR5 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC			
VZE ->display range 999 999 ->digit height: 8.0 mm ->measuring system: LHR5 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC	on request		
VZ24 ->display range 99 999 999 ->digit height: 7.6 mm ->measuring system: LHR5 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC	on request		

Datasheet

Ordering Example with Indicator

Meter Counter Electronic Light MZ/E - L - B - C10/DA - P - X - 500/G

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; mountable housing
/FA = remote display; mountable housing
/FE = remote display; installation housing

Resolution

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

Cable Length [m]

X = direct display; mountable housing
1.0; 2.0; 5.0; 10 = remote display
(observe German decimal separator ",",")

Measuring Wheel Circumference [C]/ Tread

500; 304.8; 200
(observe German decimal separator ",",")

Measuring Wheel Circumference [C]/ Tread

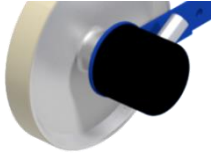
/G = smooth
/RI = grooved
/N = burled
/R = crisscross knurled
/GG = rubber, smooth
/GR = rubber, knurled

i Note

- further designs which cannot be generated from the sample order are available as special designs on request

Datasheet

Measuring System

	Encoder	Magnet Sensor
Incremental	WIG110 	LHR5/1 
Power supply	5 VDC or 24 VDC	5 VDC or 24 VDC
Standard Resolution (puls./ rev.)	1/ 50/ 100/ 250/ 200/ 500/ 1 000/ 5 000	5 000
Output Signal	PP = Push Pull; LD = LineDriver	
IP-Rating	IP65	IP67

Ordering Example without Indicator

Meter Counter Electrical Light MZ/E - L - 24 - LHR5/Y - 500 - 1,0 - 500/G

Power Supply

5 = 5 VDC
24 = 24 VDC

Measuring System/Output Signal

LHR5 = LHR5/1 sensor
WIG110 = encoder

Measuring System/Output Signal

/Y = Push Pull
/L = Line Driver

Resolution [puls./ rev.]

1; 50; 100; 200;250;**500**;1 000;5 000
further resolutions on request

Cable Length [m]

1.0; 2.0; 5.0; 10 = meters
(observe German decimal separator ",")

Measuring Wheel Circumference [C]/ Tread

500; 304.8; 200
(observe German decimal separator ",")

Measuring Wheel Circumference [C]/ Tread

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