

Datasheet

Meter Counter / Electrical – Classic – with Indicator

- very robust design
- programmable measurement indicator (inch, mm, cm, m) & (chain dimension – offset)
- up to 500 mm/revolution
- battery-powered or external power supply
- measurement indicator directly or remote in mountable or installation housing.

Standard Variations

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

- design: small
- direct-display F8P in mountable housing, battery-powered
- measuring wheel with 200 mm circumference and smooth surface



item no.:18208

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

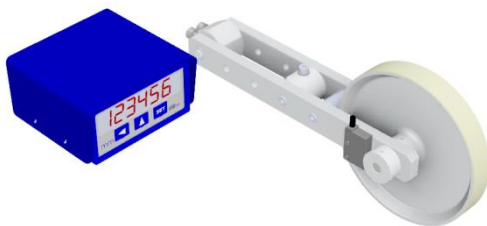
- design: medium
- direct-display C10 in mountable housing, battery-powered
- measuring wheel with 500 mm circumference and smooth surface



item no.:8873

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

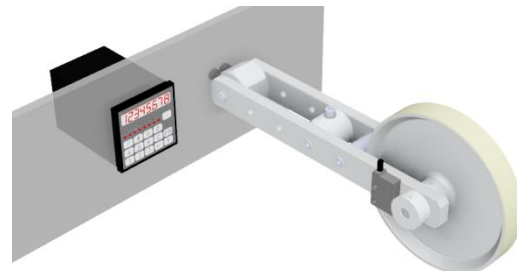
- design: medium
- remote display EP2 in mountable housing, VDC 230V, cable length 2m
- measuring wheel with 500 mm circumference and smooth surface



item no.:13059

MZ/E-CM-24-VZE/FE-P-2,0-500/G

- design: medium
- remote display VZ24 in installation housing, VDC 230V, cable length 2m
- measuring wheel with 500 mm circumference and smooth surface



item no.:16891



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 – Classic – without Indicator

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

Standard Variations

MZ/E-CS-5-LHR5/L-500-2,0-200/G

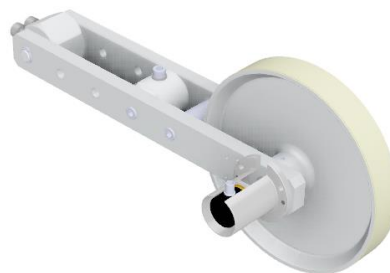
- design: small
- magnetic sensor LHR5 with 5000 puls./rev. Line Driver, cable length 2m
- measuring wheel with 200 mm circumference and smooth surface



item no.:18005

MZ/E-CM-5-WIG110/L-500-2,0-200/G

- design: medium
- encoder WIG110 with 500 puls./rev. Line Driver, cable length 2m
- measuring wheel with 200 mm circumference and smooth surface



item no.:19906

i Note

- You can find information about dimensions on page 3.

General Mechanical Data

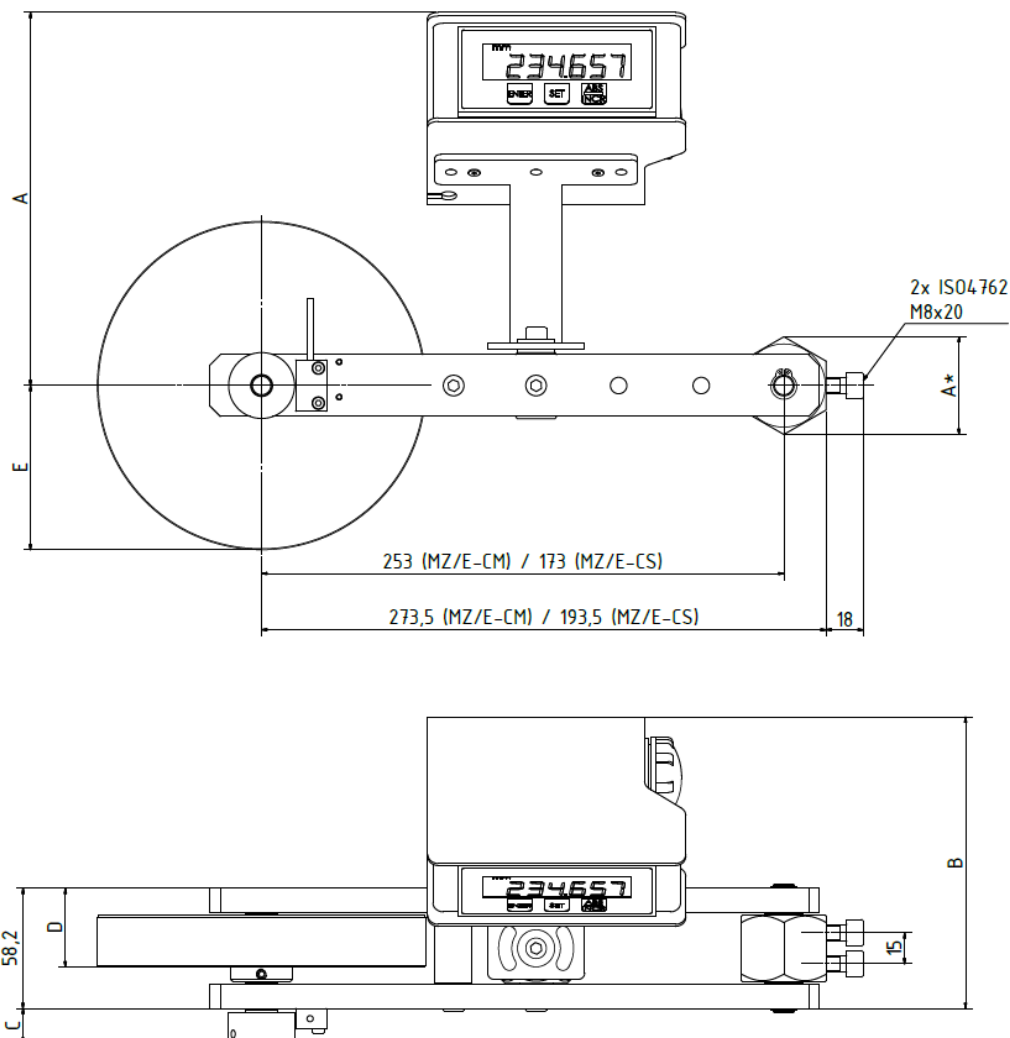
Measuring Wheel				
Circumference [C]		CS	CM	CM
		200 mm	304.8 mm (=12 inches)	500 mm
Through bore		Ø10 mm		
Material	Blank	aluminum		
	Surface	aluminum [R]; polyurethane [G; RI; N]; rubber [GG; GR]		
System				
Weight		~ 1.3 – 1.8 kg depending on design		
Repeatability		±0.4 %		
Movement Speed		< 400 m/min		

General Electrical Data

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

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Dimensions



	MZ/E-CS					MZ/E-CM				
	A	B	C	D	E	A	B	C	D	E
with indicator										
C10/DA						~183	~141	17		
F8P/DA	~69	~78	17			-	-	45		
EP7/DA	-	-	45							
EP1/DA						~166	~200	17		
EP2/DA						~174	~200	17		
without indicator	A*					A*				
LHR5/1	~47	~58	17			~47	~58	17		
SCA24	~47	~58	48			~47	~58	48		
WIG110	~47	~58	50			~47	~58	50		
measuring wheel										
MR200				30	31.83					
MR304									-	48.51
MR500									38.1	79.58

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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: LHR5/1 ->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: LHR5/1 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC			
VZE ->display range 999 999 ->digit height: 8.0 mm ->measuring system: LHR5/1 ->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: LHR5/1 ->resolution: 5 000 puls./ rev. ->power supply: 24 VDC or 230 VAC	on request		

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Ordering Example

Meter Counter Electrical **MZ/E** - **CM** - **B** - **C10/DA** - **P** - **X** - **500/G**

Type

CS = Classic Short
CM = Classic Medium

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]/ Surface

500; 304.8; 200
 (observe German decimal separator “,”)

Measuring Wheel Circumference [C]/ Surface

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

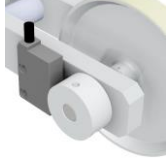


Note

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

Datasheet

Measuring System

	Encoder		magnetic Sensor
	SCA24	WIG110	LHR5/1
Incremental			
Design			
CS = Classic Short	X		X
CM = Classic Medium		X	X
Power supply	5 VDC	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	IP64	IP65	IP67

Ordering Example without Indicator

Meter Counter Electrical MZ/E - CM - 5 - SCA24/L - 500 - 5,0 - 500/G

Type

CS = Classic Short
CM = Classic Medium

Power Supply

5 = 5 VDC
24 = 24 VDC

Measuring System/Output Signal

LHR5 = LHR5/1 Sensor
SCA24 = encoder
WIG110 = rotary 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]/ Surface

500; 304.8; 200

Measuring Wheel Circumference [C]/ Surface

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