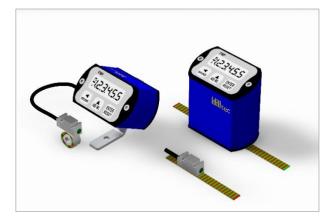
Datasheet

General features

- Magnetic distance and angle measuring system in compact design; with programmable measuring display and integrated magnetic sensor.
- Sensor and electronics are protected by a robust aluminium housing.
- Simple mounting; directly (bracket) or with mounting bracket.
- In combination with an incremental magnetic tape (PM5) or a magnetic ring (MRI), a cost-effective and flexible solution to detect linear and rotational movements.
- The measuring system is powered by a ½AA 3.6V battery uninterrupted for approx. 4 years.



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Mechanical characteristics

Display	LCD; 6-stellig				
Digit high	10 mm				
Display Range	-999999; 999999				
Sensor					
Housing	Aluminium; black anodized				
Cable	Cable length: 0,3 - 0,5 - 1,0 - 3,0 - 5,0 m				
	(supplied pre-wired and not detachable from the display)				
Mounting frame	Aluminium; blue powder-coated				
Resolution	0,1 (Standard); 0,01 freely programmable				
Accuracy	± 0,1 mm				
Speed	< 2,5 m/s				
Available functions,	Setting of counting direction; measurement units (mm, inches,				
Activatable tracer	degrees); decimal point and multiplication facto;				
	absolute/relative; reset/ preset mode				
Keyboard	3 programming and functions buttons				
Accessories					
Measuring body	Magnetic ring (MRI)				
	Magnetic tape (PM5)				
Rail	Profiled rail (SB)				
Distance: Sensor/Scale	< 1 mm				
Operating temperature	0 - 50 °C				
Relative humidity	35 - 85 %				
Electromagnetic compatibility	2004/108/EC				
IP-Rating	Display IP54, Sensor IP67				

For more information on our accessories, please refer to the corresponding data sheets.

Electrical characteristics

+

Power supply	1/2 AA 3,6 V battery (Lithium-thionyl chloride)
Battery life	4 years

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Datasheet

Variants and mounting position

F8P Installation housing with sensor



F8P in mounting housing

TowerLine/Short TL/S



F8P in mounting housing

TowerLine **TL**

F8P in mounting housing TowerLine **TL-IF**, directly on the bracket, integrated sensor, installation position: frontal





F8P in mounting housing TowerLine **TL**, on the bracket

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F8P in mounting housing TowerLine **TL-IL**, directly on the bracket, integrated sensor, installation position: lengthwise



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Application examples

Electronic meter counter MZ-E-Light Short with integrated measuring system **F8P** with profiled rail (U-profile), incl. pass-through guiding (guide sleeve) and flange clamp connector for round tube.



Electronic meter counter MZ-E-Light Short with integrated measuring system **F8P** and measuring wheel on supporting arm.

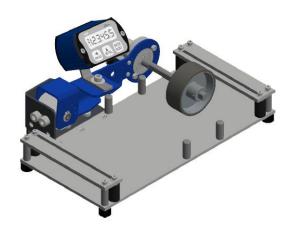


Electronic meter counter MZ-E-Light Short

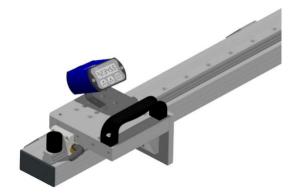
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with integrated measuring system **F8P** with profiled rail (flat), incl. adjusting module for the width of the pass-through.



Length measuring stop LIN-KIT-Compact with integrated measuring system **F8P**.



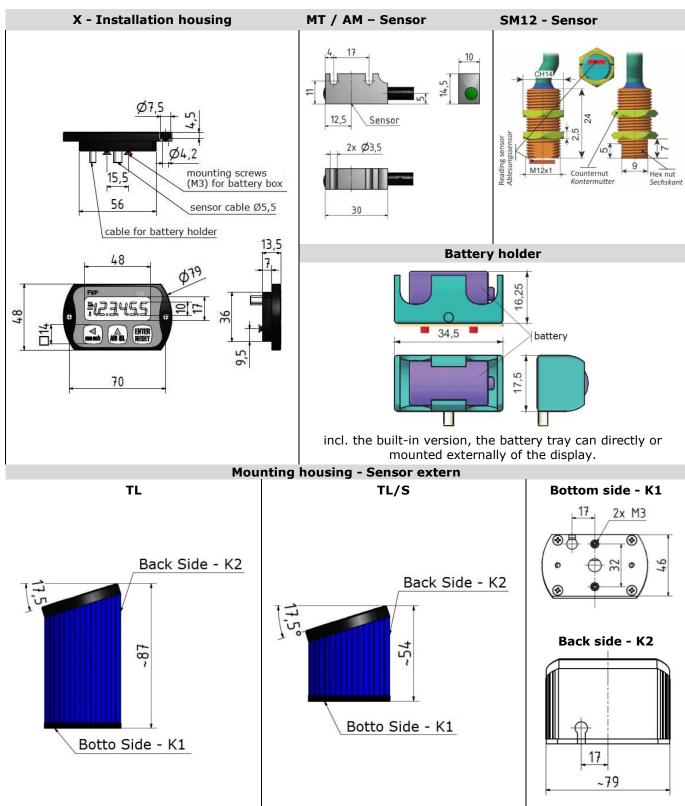
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Measure

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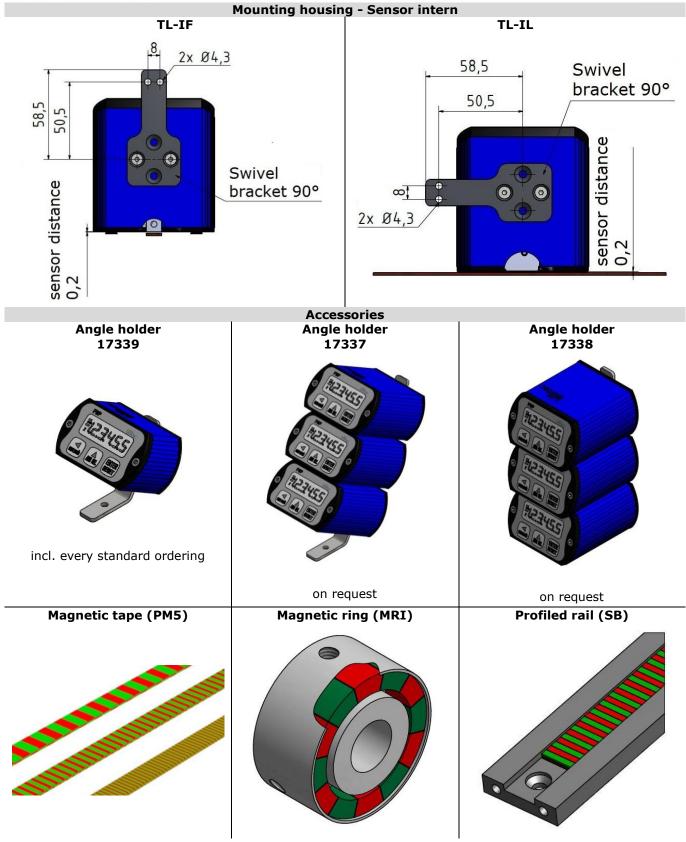
Dimensions



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Datasheet

Ordering example Measuring system

-							
Туре	F8P	-	0,5	17	МТ	-	TL-K2
Cable leng	ath						
0.3	= 0,3 m						
0.5	= 0.5 m						
1.0	= 1,0 m						
	•						
3.0	= 3,0 m						
5.0	= 5.0 m						
Х	= TL-IF/ TL-IL (= sensor integrated in the mou	inting	housing])			
Magnetic s	sensor						
MT	= Magnetic sensor						
SM12	= Magnetic sensor round, M12						
AM	= Magnetic sensor for magnetic ring						
Mounting							
Х	 Installation housing, not specified 						
TL-K1	= TowerLine; mounting housing – Cable outlet	botto	m side				
TL-K2	= TowerLine; mounting housing - Cable outlet						
TL/S-K1	= TowerLine/Short; mounting housing - Cable			ı sic	le		

= TowerLine/Short; mounting housing - Cable outlet back side

= TowerLine; sensor integrated in the mounting housing,

= TowerLine; sensor integrated in the mounting housing, frontal

TL-IL lengthwise

TL/S-K2

TL-IF

Ordering example Magnetic tape

Туре		PM5	-	36	-	1	-	0	-	DB50
Pole	pitch									
5	= 5 mm									
Accu	racy (refers to 1m length)									
36 18	= 36 μm = 18 μm									
Meas	uring length [m]									
1	= 1 m Length for magnetic tape (PM5 The length ordered should be o desired measuring length.		40 mr	n longe	er than	the				
Refer	ence point [mm]									
0	= without									
Cove	ring tape									

DB50 = with covering tape 0 = without

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Ordering example Magnetic ring

Гуре	MRI	-	31	-	20	-	5	-	20
MRI-A									
MRI									
Outer diameter									
31 = 31 mm *									
Pole number									
20 *									
Pole pitch / single signal									
5 = 5 mm									
E = single signal									
Inner diameter									

20 = 20 mm *

* Others, see table: Magnetic ring versions

Versions Magnetic ring

Type	Outer diameter	Magnet width	Pole	Inner	diameter
Туре	Outer diameter	Magnet width	number	umber Standard On	
MRI	31	5	20	8, 14, 20	6 - 20
MRI	38	5	24	8, 14, 20	6 - 25
MRI	50	8	32	20, 40	10 - 40
MRI	72	7	46	20, 50	10 - 50
MRI	80	10	50	20, 50	10 - 50
MRI-A	32	5	20	8, 14, 20	6 - 20
MRI-A	39	5	24	8, 14, 20	6 - 25
MRI-A	51	8	32	20, 40	10 - 40
MRI-A	73	7	46	20, 50	10 - 50

Basis: Pole pitch 5 mm (other pole pitches on request) or single signal.



Please order the magnetic tape (PM5) and the magnetic ring (MRI) separately. To do so, use the ordering code on the corresponding datasheets.

Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement. Mistakes excepted.

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