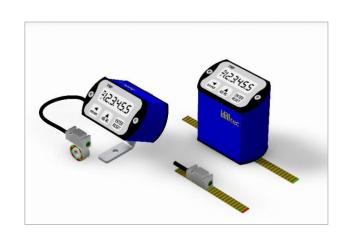
Messtechnik

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 costeffective 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.



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, Activatable tracer	Setting of counting direction; measurement units (mm, inches, degrees); decimal point and multiplication facto;					
La de a cod	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	½ 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 **TL**



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



F8P in mounting housing TowerLine/Short **TL/S**



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



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

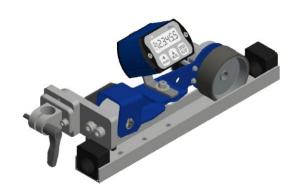


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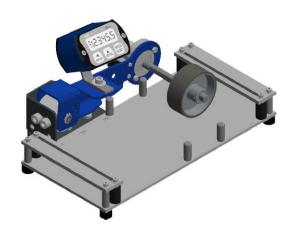
Datasheet

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.



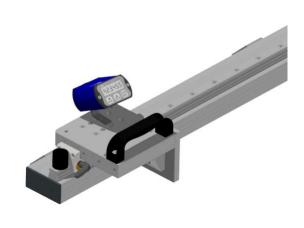
Electronic meter counter MZ-E-Light Short with integrated measuring system **F8P** with profiled rail (flat), incl. adjusting module for the width of the pass-through.



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



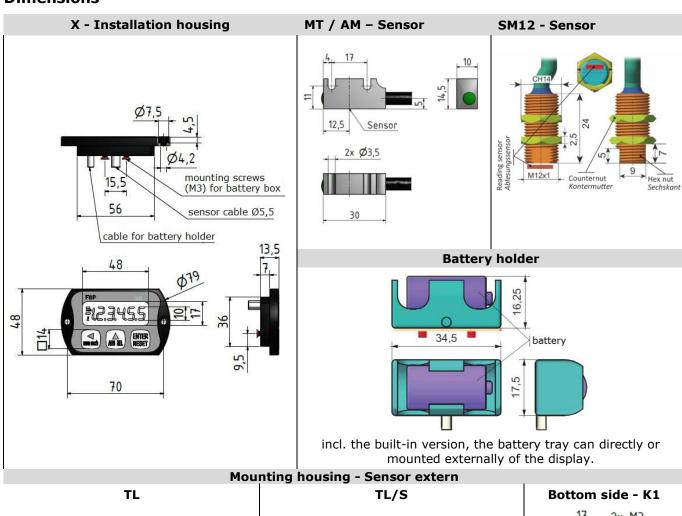
Length measuring stop LIN-KIT-Compact with integrated measuring system **F8P**.

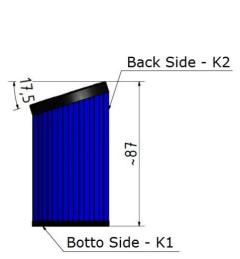


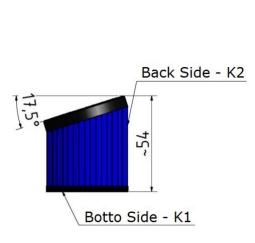
lilltec esstechnik

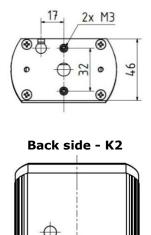
Datasheet

Dimensions







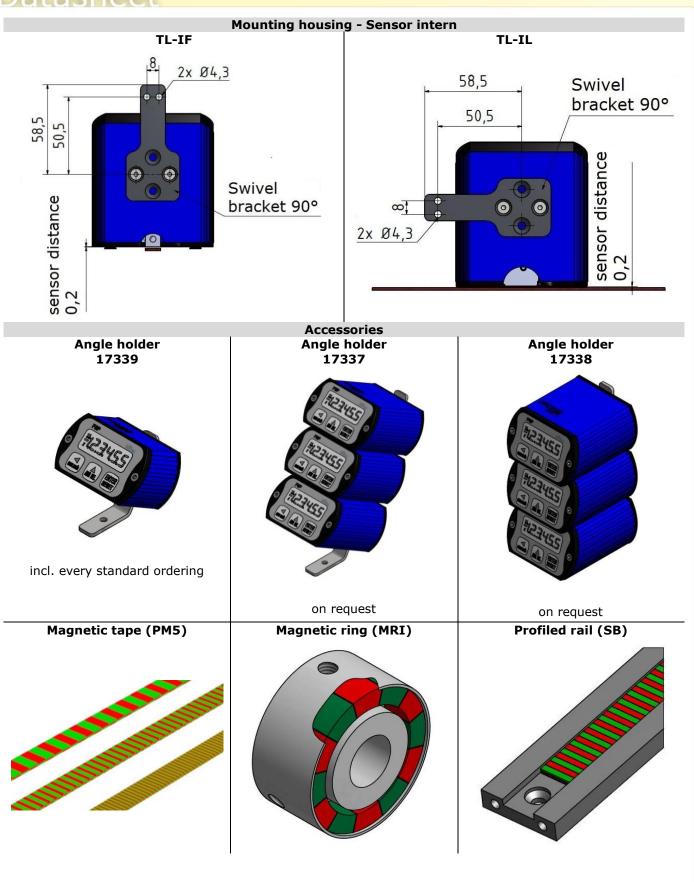


17

~79



Datasheet





Datasheet

Ordering example Measuring system

Туре	F8P - 0,5 - MT - TL-K2
Cable length	
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
X	= TL-IF/ TL-IL (= sensor integrated in the mounting housing)
Magnetic sen	sor
MT	= Magnetic sensor
SM12	= Magnetic sensor round, M12
AM	= Magnetic sensor for magnetic ring
Mounting pos	sition
Χ	= Installation housing, not specified
TL-K1	= TowerLine; mounting housing - Cable outlet bottom side
TL-K2	= TowerLine; mounting housing - Cable outlet back side
TL/S-K1	= TowerLine/Short; mounting housing - Cable outlet bottom side
TL/S-K2	= TowerLine/Short; mounting housing - Cable outlet back side

= TowerLine; sensor integrated in the mounting housing, frontal

= TowerLine; sensor integrated in the mounting housing,

Ordering example Magnetic tape

TL-IF

TL-IL

lengthwise

o. ac	ing cau	ipic Magnetic tape									
Ty	уре		PM5	-	36	-	1	-	0	-	DB50
Po	ole pitch										
5	= 5 m	m									
A	ccuracy (ref	ers to 1m length)									
40	$\begin{array}{ccc} 0 & = 40 \ 1 \\ 3 & = 18 \ 1 \end{array}$	ım									
Measuring length [m] 1 = 1 m Length for magnetic tape (PM5) in meters. The length ordered should be on each side 40 mm longer than the desired measuring length.											
Re	eference po										
0	= with	out									
Co	overing tap	е									
D I 0	B50 = with = with	covering tape out									

* Others, see table: Magnetic ring versions



Datasheet

Ordering example Magnetic ring **Type** MRI 31 20 5 20 MRI-A MRI **Outer diameter** 31 = 31 mm *Pole number 20 * Pole pitch / single signal = 5 mmЕ = single signal Inner diameter = 20 mm *

Versions Magnetic ring

Tymo	Outer diameter	Magnet width	Pole	Inner	diameter
Туре	Outer diameter	Magnet width	number	Standard	On request
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.