

- Direct measurement of linear displacement, angle of rotation, rotational speed
- Non-contact measurement, no wearing parts
- Resolution max 5um
- Measurement length up to 30 m.
- The distance between the sensor and the tape is 2 mm
- Insensitive to dirt, dust, water IP67
- High resistance to shocks, vibrations, pressure
- Anodized aluminum housing
- Mounting with 2 M3 screws

The MSI-50 magnetic sensor together with the MT50 tape or magnetic wheel creates an incremental measuring system designed for direct measurement of linear displacement, rotation and rotational speed. The measurement is non-contact and does not have any wearing parts (bearings, seals, etc.). The sensor can be mounted up to 1 mm from the tape or wheel. It is completely insensitive to dirt, dust, water and oil. The output is a quadrature signal, 2 channels shifted in phase by 90 degrees.

Magnetic encoders are an excellent solution in harsh environments, including woodworking, stone processing, metalworking, textiles, printing, packaging, plastics processing, automation and assembly systems, laser / water cutting, electronic assembly equipment, etc.

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Technical data:

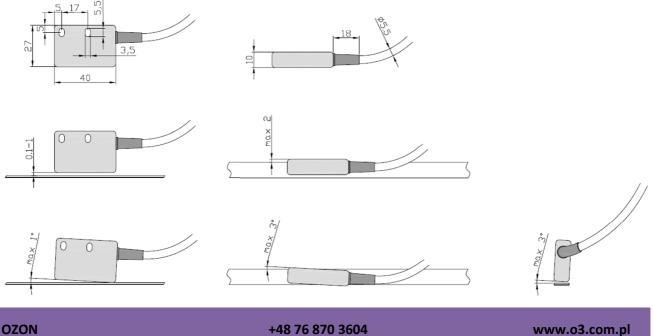
Power	7-30 V DC	
Current consumption	< 20mA	
Output load	70mA	
Resolution (um)	5 , 10 standard , 25 , 125	
Interpolation factor	1000, 500 standard , 200, 40	
Sensor interpolation factor	Typ. 15 um , max. 20 um	
Max speed	1um-0,7m/s , 2um-1,4m/s , 4um-2,8m/s	
Max speed	5um-3m/s , 10um-7m/s , 25um-4,38m/s , 50um-4,38m/s	
Cable	PUR , 2m standard (other on request)	
Output type	Push-Pull , Line Driver	
Signals	A, A/, B, B/, I, I/	
Index	2 mm	
Max distance sensor-tape	0,1 – 2 mm	
Accuracy class of the	Depends on the class of tape used	
measurning system	A20	A40
(sensor+tape) in um in 20°C	+/- 20	+/- 40

Ordering:

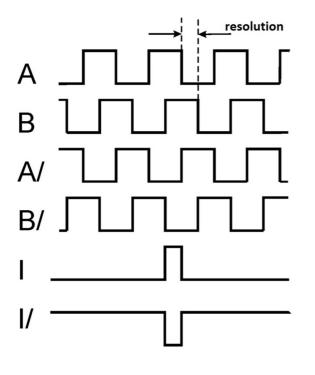
MSI-50- resolution in um

(MSI-50-10 means sensor with resolution 10 um (0,01mm))

Dimension and assembly deviation:



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Color	
Red	
Blue	
Yellow	
Brown	
Green	
Pink	
White	
Grey	

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