



- **Direct measurement of linear displacement, angle of rotation, rotational speed**
- **Non-contact measurement, no wearing parts**
- **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**
- **Resolution max 0,05 mm**
- **Anodized aluminum housing**
- **Mounting with 2 M3 screws**

The MSI-32 magnetic sensor together with the MT32 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 2 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.

Technical data:

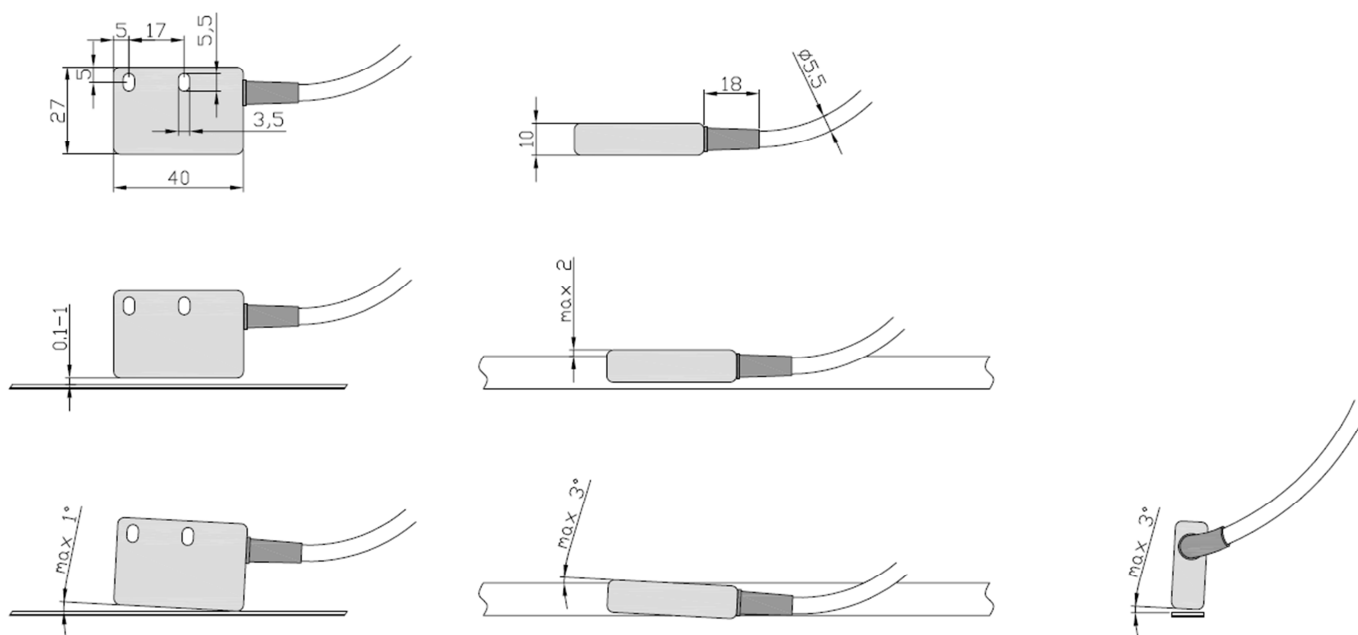
Power	7-30 V DC						
Current consumption	< 20mA						
Output load	70mA						
Resolution (um)	50	80	100	160	200	400	800
Resolution (mm)	0.05	0.08	0.1	0.16	0.2	0.4	0.8
Interpolation factor	16	10	8	5	4	2	1
Accuracy	±0,05mm						
Max speed	20m/s						
Cable	PUR , 2m standard (other on request)						
Output type	Push-Pull , Line Driver						
Signals	A,B shifted by 90° (A/,B/,I/,I)						
Distance sensor-tape	0,1 – 2 mm						

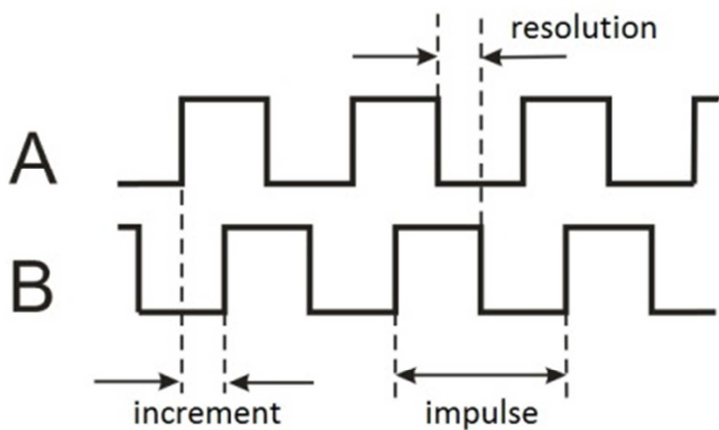
Ordering:

MSI-32- resolution in um

(MSI-32-100 means sensor with resolution 100 um (0,1mm))

Dimension and assembly deviation:





Function	Color
+ V DC	Brown
- V DC	White
A	Yellow
B	green