

TM + MP200

MAGNETIC TRANSDUCER

The linear magnetic measuring system **TM+MP200** is composed by the magnetic transducer **TM** and the magnetic band **MP200**: The transducer works contactless, releaving the polarized fields of the magnetic band and converting the measure into digital signals.

The system can be profitably employed in severe industrial environments, in presence of water, oil, grease. The mounting method is easy and cheap and the measure is accurate and repeatable.

The scanning head **TM** is contained in a compact and strong metal case, and it is available with reading resolution 0.1 mm (**TM10**) or 0.01 mm (**TM100**).

An electronic zero pulse is generated each 4 mm (type TM10C/TM100C), o matching with one or more external magnets (TM10E/TM100E).

Complying with CE standards

READING TRANSDUCER SPECIFICATIONS			
TYPE	TM10C/TM10E	TM100C/TM100E	
Reading resolution	0.1 mm	0.01 mm	
Accuracy	± 0.1 mm/m	± 0.05 mm/m	
Electronic zero pulse	each 4 mm (type C) or matching with		
	external magnet (type E)		
Frequency	300 KHz		
Sensor distance	0.3 ÷ 1.2 mm		
Phase difference	90° ± 5° electrical degree		
Max. speed	12 m/s		
Vibration resistance	(55 Hz ÷ 2 KHz) at 300 m/s ²		
Shock resistance	1000 m/s ² (11 m/s)		
Protection degree	IP67		
Operating temperature	0 :	50° C	
Stocking temperature	-20°	÷ 80 C°	
Humidity	100% noi	n condensed	
Supply	5/28 Vdc ±5%	6 60 mA no load	
Output signals	push-pull or line-driver		
Standard cable	length 2 m		

for the supply: against polarity inversions

for the outputs: against short circuits

MAGNETIC BAND MP200

The magnetic band **MP200** consists of a plasto-ferrite strip, which is polarized at regular distance, and supported by a stainless steel carrier; it is equipped with the adhesive tape for an easy mounting.

As an optional, the magnetic band can be supplied with a magnetically transparent stainless steel cover for physical protection.

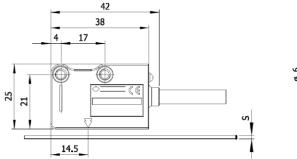
MAGNETIC BAND SPECIFICATIONS

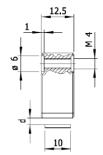
Electrical protections

Pole pitch	2 + 2 mm	
Accuracy	±50 μm/m	
Width	10 mm	
Thickness	1.3 mm	
Max. lentgh	50 m	
Thermal expansion	10.5x10 ⁻⁶ °C ⁻¹ ref.t=20°C±0.1°C	
Operating temperature	0 ÷ 70°C	
Stocking temperature	-20° ÷ 80°C	

DIMENSIONS

Magnetic Transducer TM + Magnetic Band MP200





d = sensor distance: 0.3 ÷ 1.5 mm