



Yani-Motors

ООО «ЯНИ-МОТОРС»

Комплектный электропривод  
 Двигатели постоянного тока  
 Тахогенераторы и энкодеры  
 Модернизация станков с ЧПУ

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## General Characteristics:

- Magnetic sensor for linear and angular reading
- Incremental Magnetic sensor
- Contactless reading
- To be used with magnetic band MP500
- Die-cast Body Magnetic Sensor
- Small size, to allow installation in narrow spaces
- Wide alignment tolerances
- AMR Magneto resistive position sensor
- Resistant to strong magnetic fields.i
- Not sensitive to external homogenous magnetic fields.



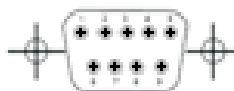
## Mechanical and Electrical Features

Reference signal	Constant Pulse every 5mm
Pole Pitch	5+ 5 mm
Resolution	5 - 10 - 25 - 50 - 100 um
Accuracy	± 40um
Repeatability	± 1 increment
Cable	8 cores
Output type	Line-driver / push-pull
Max. frequency	300 KHz
Sensor to Magnetic Band distance	5 - 30 Vdc ± 5%
Power supply	60mA Max.
Phase displacement	90° ± 5° electrical
Max. traversing speed	Max. 25m/s
Vibration resistance	10Hz – 2KHz at 100m/s <sup>2</sup>
Shock resistance	1000m/s (11ms)
Electrical connections	See related table
Class of protection	Ip68 (IEC60529 : 2001)
Operating temperature	0° – 50°
Storage temperature	-20° – 80°
Humidity	100% not condensed
Weight of transducer	40g
Electrical protections	Inversion power supply polarity short circuit on output postt
Current consumption with load	Max. 140mA(with 5V and Z=120Ω); Max. 115mA(with 12V and Z=1.2KΩ); Max. 90mA(with 28V and Z= 1.2KΩ);

## Pin Connection Details



9 Pin 'D' (F)  
 Connector



9 Pin 'D(M)  
 Connector

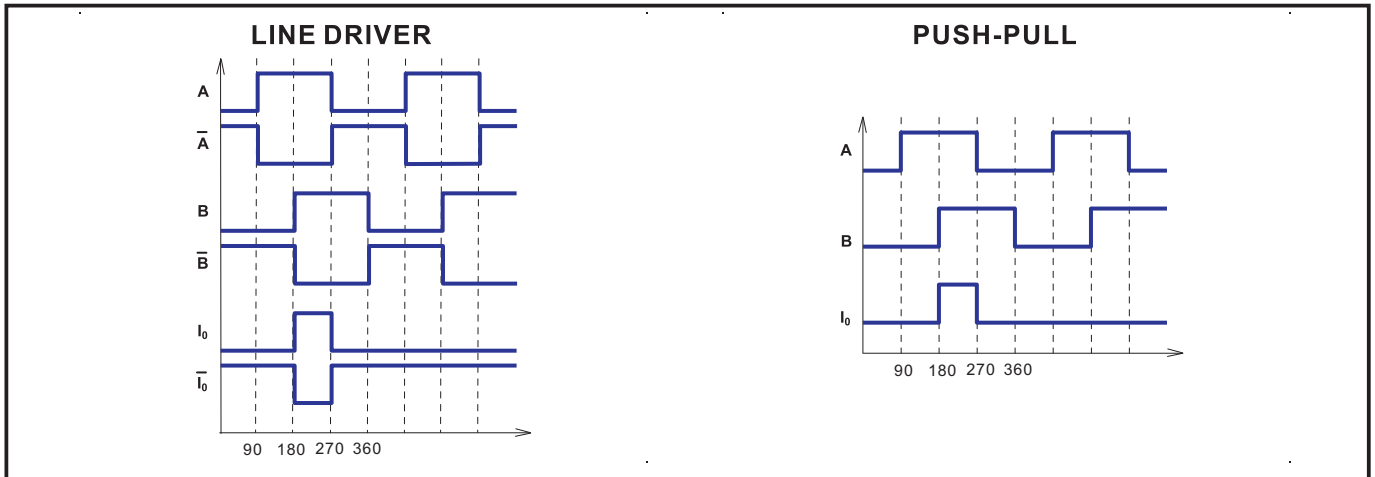


STATIC SENSITIVE DEVICE  
 OBSERVE HANDLING  
 PRECAUTIONS

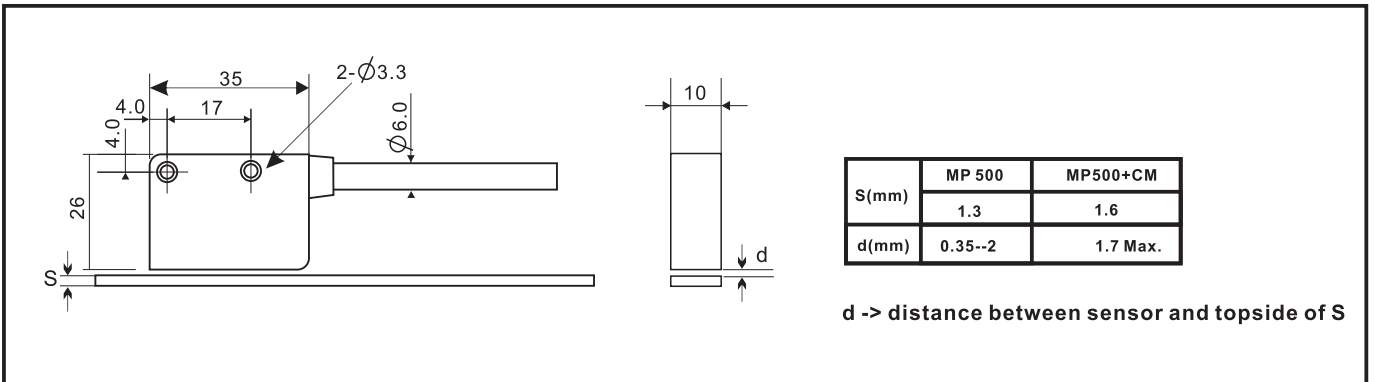
	1	2	3	4	5	6	7	8	9
Signal	A-	0V	B-	Shield/ Body	R-	A+	V+	B+	R+
Non-Armoured Colour	Orange	Navy Blue	Blue	Wire	Yellow	Green	Red	White	Brown

# MST series

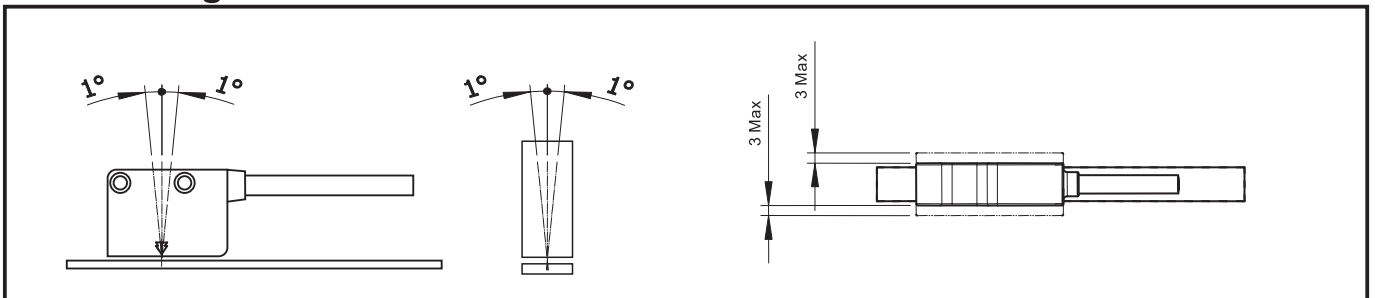
## Output Signals



## Dimensions



## Sensor Alignment Tolerances



## Ordering Code

MODEL	POLE PITCH	RESOLUTION	REFERENCE INDEXES	POWER SUPPLY	OUTPUT SIGNALS	CABLE	CONNECTION
MST	5P	5	C	0530	L	C02	SC
MST	5P = 5+5 mm 2P = 2+2 mm 1P = 1+1 mm	5 = 5um 10 = 10um	C=Pitch Marker E = External Marker	0530 = 5 – 30VDC	L = LINE - DRIVER PP = PUSH - PULL	C02=2m	SC=Without Connector DB9=DB9 connector

**Example:** MST 5P 5 C 0503 L C02 SC