

## NORDIC TRANSDUCER

### MS9005 medium size up to 5m

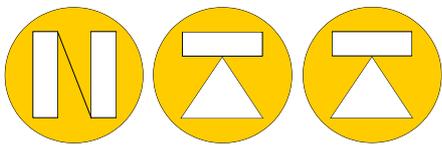
#### Wire rope position transducers industrial series

##### Series MS9005

1. Output types:
  - Analogue: potentiometer, 0-10V,0-5V,4-20mA
  - Digital: TTL/push-pull/OC/line drive
2. Linearity
  - Analogue output  $\pm 0.1\%$  of FS
  - Digital  $\pm 0.05\%$  of FS
3. Technical data



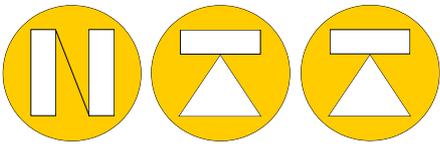
Output type	Digital	Analogue
Effective stroke	0-5000mm	0-5000mm/ 0-4000mm
Sensor element	Encoder	Potentiometer
Stainless steel	1.3mm Plastic-coated	1.3 mm Plastic-coated
Output	Standard: Push-pull (F) Option: OC NPN (C) Long line driver 5V (L) RS232/485	Standard 0-5 k ohm, 0-10 k ohm Customized
		4-20mA(2-wire/4-wire system)
Excitation circuit	No	Built-into the module
Output zero and output full	No	Adjustable
Linearity	0.05%FS	0.1%FS
Repeatability	0.01%	0.01%
Resolution direct (mm)	0.5, 0.33, 0.2, 0.1, 0.08, 0.04	Infinitive
Max. Velocity	4000mm/S	4000mm/S
Vibration frequency	50HZ	50HZ
Response frequency	300K Hz	2000HZ
Power	Due to output	<1W
Working voltage	Standard: 5-24V	10-30V(built-in)
	Line drive 5V TTL	12V,24V,28V(outlay)
Starting force	15N	15N
Weight	450g	450g
Working temp range	0 C- +30C	0C - +30C
Service life	>5 Mio	>5 Mio
Anti- vibration	10HZ-1500HZ; 10G	10HZ-1500HZ; 10G



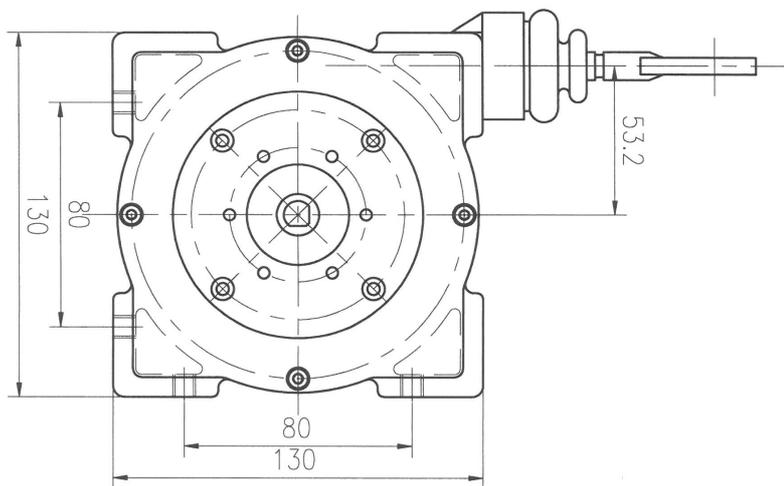
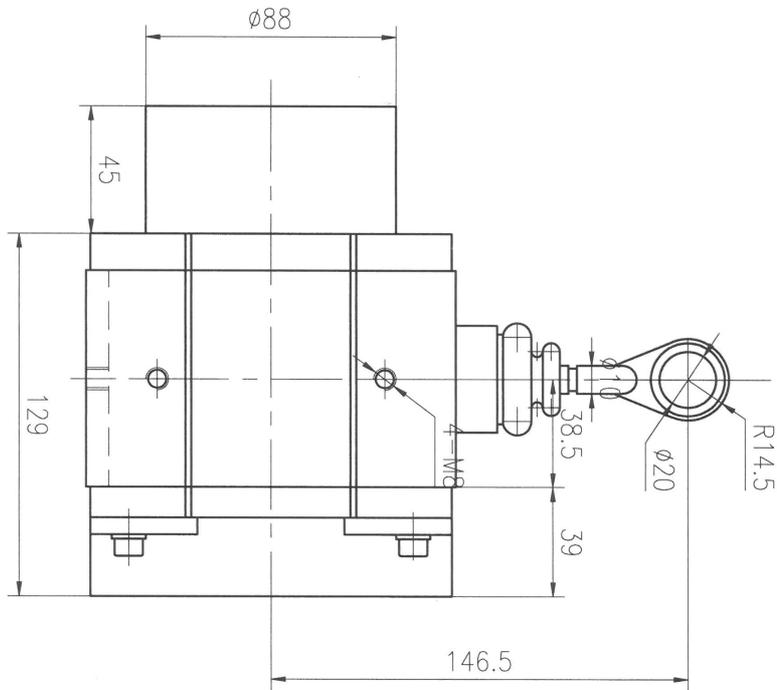
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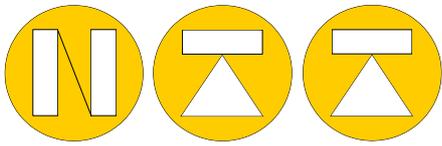
<b>Cable length</b>	4M (standard)	4M (standard)
<b>Housing component</b>	Titanium-anodized Aluminum, the coating is a hart anodic oxidation that protects the sensor from corrosion	Titanium-anodized Aluminum, the coating is a hart anodic oxidation that protects the sensor from corrosion
<b>Protection Class</b>	IP65	IP65





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### Cautions

- 1.As draw wire position sensor is high precision instrument, please no knocking when install, otherwise it will influence the quality and service life.
- 2.Make sure the connection is absolutely right, otherwise it will destroy the inner electric circuit.
- 3.Make sure the signal output and power supply cable is separated, also it is not suitable to use aside the distribution board.
- 4.Make sure the pulling end is vertical to the outlet, and keep the angle degree no more than 3°.
- 5.Make sure the distance and measurement stroke is no more than the measurement range of sensor from fixed pulling end to the initial position of movement components.
- 6.As it will break the wire and sensor itself, please do not let go the rope when it is pulled out by hand or machine.
- 7.Make sure the steel rope not will be destroyed by outside force.
- 8.Please consult NTT if protection outlet and housing, if working environment is out door or too bad (have dust or water present).

### Extension Plan

If measurement distance is small while the installation distance is very large, we can provide you draw wire position sensor with extension line. Because the installation distance is not included in the measurement distance, it is no need to choose larger stroke sensors. This plan can increase the test accuracy of sensor but reduce the cost. For technical details, you can consult our consumer managers before order, and we will solve it in production process.

### Guide Wheel Installation Plan

The installation of guide wheel is a character in draw wire position sensor use. As NTT use the most flexible plastic-coated steel rope, this makes the guide wheel installation plan possible. It satisfies the larger installation angle, limited installation space and other necessary installation environment. It used a guidewheel with slot in the middle of measurement steel rope to change the direction of rope. This does not influence the test accuracy and service life of sensor. For more details, please consult our technical department.