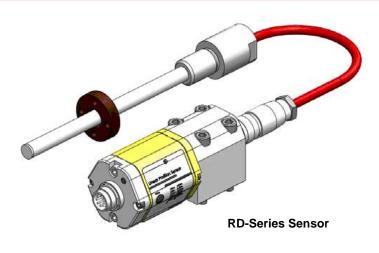
# Analog/SSI Output

# High accuracy, separated body design



## PARAMETERS SPECIFICATIONS

### Analog output

### Measuring parameters

Measured range: 50mm-1500mm

 Output :
 Current 4-20mA(Load resistance: ≤500Ω)

 Voltage 0- 10Vdc (Load resistance: >5kΩ)

 $\label{eq:constraint} \begin{array}{ll} \mbox{Resolution:} & 16 \mbox{ bit D/A(no limit)} \\ \mbox{Non-linearity:} < \pm 0.01\% \mbox{ of full stroke}(Min.50um). \\ \mbox{Repeatability:} < \pm 0.002\% \mbox{ of full stroke}.(Min.2um) \\ \mbox{Updated time:} & >1 \mbox{ KHz} \end{array}$ 

## Operation conditions

Operating Temperature:	-40 C to +85 C
Temperature coefficient:	<b>&lt;30ppm</b> ℃
Relative humidity:	90% no condensation
Electronic protection:	IP69 for measuring rod
	IP67 for electronic head

#### Mounting and attachment

Mounting type: screw threads M18x1.5 or by custom Mechanical assembly: O-sealing ring 15.3x2.2 mm, FPM75, Magnet type: Ring magnet OD33, OD25.4

#### **Electrical characteristics**

Wiring type: Integral cable or 6 pin Aviation connector Operating voltage: 24Vdc(-15/+20%) Polarity protection: up to -30Vdc Overvoltage protection: up to 36Vdc Fault display: Fed, Green dual LED displayer

#### Features

- High accuracy, separated body design, small space installation required.
- Rugged and reliable, oil fouling resistant
- No zero, absolute displacement output
- Easy to diagnosis, LED lamp real-time display
- Low power design, reduce the heat

RD series products with measuring rod head size Ø26.9x32 mm, is suitable for installation space which has the strict request built-in measuring occasions, measuring rod part of the protection class IP69, applied to wind power, engineering machinery, etc high demand field.

### SSI output

Measured range: 50mm-1500mm
SSI signal : 24,25,26 bit binary/Gray code
Transmission speed: 70kBd-1Mb
Wire length: <3 <50 <100 <200 <400 m
Speed: 1000<400 <300 <200 <100 kBd
Resolution: 2/5/10/20/50/100 um
Non-linearity : < $\pm$ 0.01% of full stroke(Min.40um).
Repeatability: < $\pm$ 0.002% of full stroke.(Min.1 bit)
Updated time: stroke 300 750 1000 2000 5000 (mm)
Frequency 3.7 3.0 2.3 1.2 0.5 (kHz)
Operating Temperature: $-40^{\circ}$ C to $+85^{\circ}$ C

 Temperature coefficient:
 -40 C to +85 C

 Temperature coefficient:
 <30ppm°C</td>

 Relative humidity:
 90% no condensation

 Electronic protection:
 IP69 for measuring rod

 IP67 for electronic head

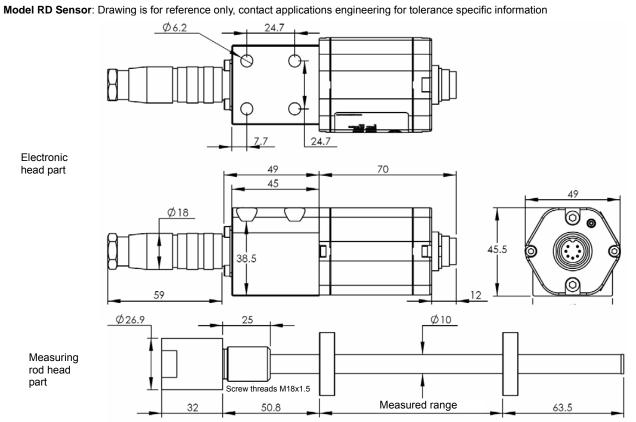
Mounting type: screw threads M18x1.5 or by custom Mechanical assembly: O-sealing ring 15.3x2.2 mm, FPM75, Magnet type: Ring magnet OD33, OD25.4

Wiring type: Integral cable or 7 pin Aviation connector Operating voltage: 24Vdc(-15/+20%) Polarity protection: up to -30Vdc Overvoltage protection: up to 36Vdc Fault display: Fed, Green dual LED displayer

# **Analog/SSI Output**

## Model RD sensor dimension reference

Analog/SSI Output



## **Electronic wiring**

## Analog Output type

1 6 5 2 6 4 3 4 Male connector (Face to sensor head)	Pin	Color	Description
	1	Gray	Output Signal(0-20mA, 0-10V)
	2	Pink	Output(GND)
	3	Yellow	(+) Communication interface
	4	Green	(-) Communication interface
	5	Brown	(+) Power +24Vdc(-15/+20%)
	6	White	(GND) Power

## SSI Output type

Male connector

(Face to sensor head)

Pin	Color	Description
1	Gray	(-)Output Signal
2	Pink	(+)Output Signal
3	Yellow	(+) Clock
4	Green	(-) Clock
5	Brown	(+) Power +24Vdc(-15/+20%)
6	White	(GND) Power
7	N.C.	

