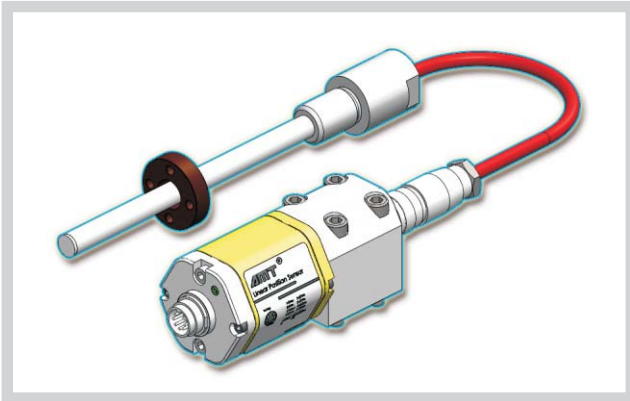


RD Series | analog output: 4~20mA, 0~20mA, 0~10V, -10V~+10V



Product features

- Split ,Ultra-small installation space is needed when range is wide
- External electronic head , Replaced by the convenience
- Absolute Position Output, No need to return to zero
- LEDs for real-time sensor diagnostics
- Protection of the built-in measuring rod can reach IP69

RD series products of built-in installation classifier for Φ 26.9 only head sizeMm (diameter) x 32 mm (length), is suitable for installation space has strict The requirements of the measure's built-in occasion. Built-in protection grade part for IP69 classifier.

Technical Data

Project name	Data/Index
Measurement parameters	
Measuring range	25~2500mm
Out put	0~20mA (min/max: 0/500 Ω)
	4~20mA (min/max: 0/500 Ω)
	0~10V (min > 5k Ω)
	-10~+10V (min > 5k Ω)
Resolution	16 bit
linearity	< $\pm 0.01\%$ F.S. (Minimum $\pm 50 \mu\text{m}$)
Repeatability	< $\pm 0.001\%$ F.S. (Minimum $\pm 1 \mu\text{m}$)
Update time	> 1kHz

Electrical characteristics

Leading-out mode	cable outlet or 6 pin connector
Input voltage	24VDC (-15/+20%)
Current drain	< 50mA (With the range of variation)
Polarity protection	up to -30VDC
Overvoltage protection	up to 36VDC
Electric strength	500V (DC ground to machine ground)
Diagnostic display	LEDs beside connector

Project name Data/Index

Design,material

Sensor head	Aluminium
Sensor stroke	Aluminium
Mounting flange	AISI 304

Installation

Mounting direction	any
Mounting mode	Screw mounted , M18x1.5orUser customization
Position magnet	Ring magnetOD33, OD25.4, OD17.4

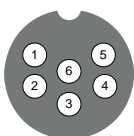
Operating conditions

Magnet speed	any
Operating temperature	- 40°C ~ +85°C
Dew point/humidity	90%rel.humidity, no condensation
Temperature coefficient	< 15ppm/°C
Protection	IP69 classifier parts, electronicparts IP67 head
Pressure rating	350bar/700bar peak

Electrical connection

Analog output pin definition

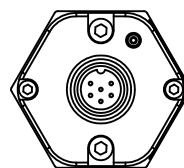
Pin	Cable	Function
1	Grey	(+) Output
2	Pink	(-) Output
3	Yellow	Prog.
4	Green	Com.
5	Brown	+24Vdc
6	White	DC GND (0 Vdc)



Male insert sensor plug
rear of cable connector

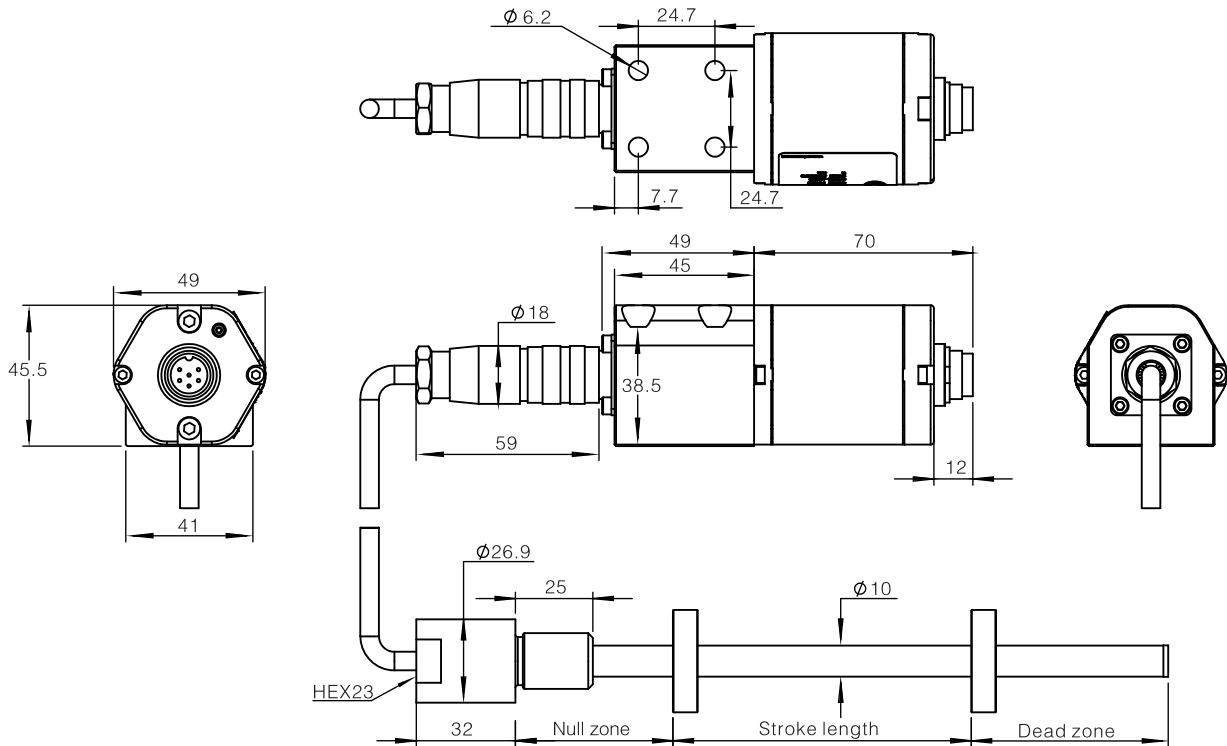
Status indicator

Indicator lamp status	Definition
The green on	Normal working
The green flashing	Program status
The red flashing	magnet out of effective range
The red on	magnet not detected or magnet damaged



Outline dimensions

Electronic head part



Classifier part

RD Series

Explain: RD series products are especially suitable in two cases: One is that the fuel tank is with U-shaped rings on both sides, the other is that the mounting space is restricted. The sensor consists of a threaded measuring rod made by stainless steel and a separate electronic head. The protection of the measuring rod can reach IP69, effectively protecting the internal sensitive components. The electronic head is installed outside the fuel tank and easy to be replaced. Measuring rod and electronic head are connected by cable.

Style guide

