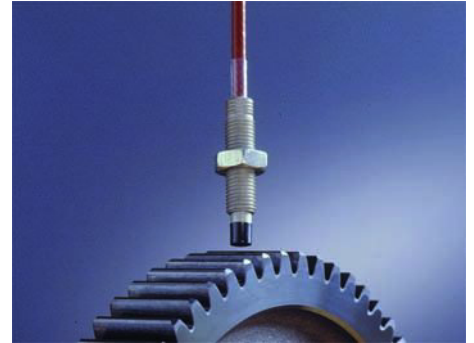


The RD Series tacho driver is an eddy-current non-contact revolution detection transducer.

It is usually difficult to measure accurately the speed of rotating machinery in the low rotating region, but this transducer can measure any speed from zero upwards based on its eddy-current design.



Main Functions

1. System configuration

Consists of sensor, extension cable and driver.
Available in system lengths of 5m and 9m to cover the total distance between sensor and driver.

2. Measurement frequency band

DC to 15kHz (-3dB)

3. Sensor abnormal detect function

Any failure, such as sensor break or imperfect connections are detected, then a burn-down voltage is output.

4. Environment

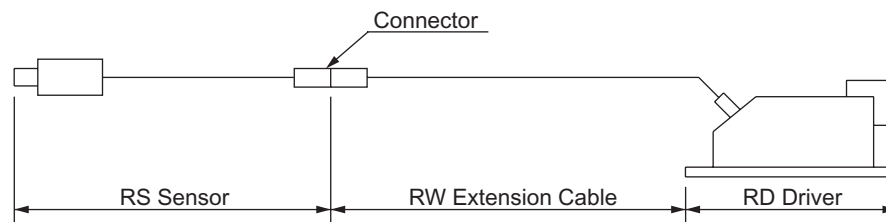
Extensive operating temperature range (-40 to +177°C).
Not affected by lubricating oil mist or dust. (Exclude connector)
Ammonia resistance and measures for hydrogen sulfide-protected models are also available (for details, contact us).
(Not available for rain water at out door use)

Specifications

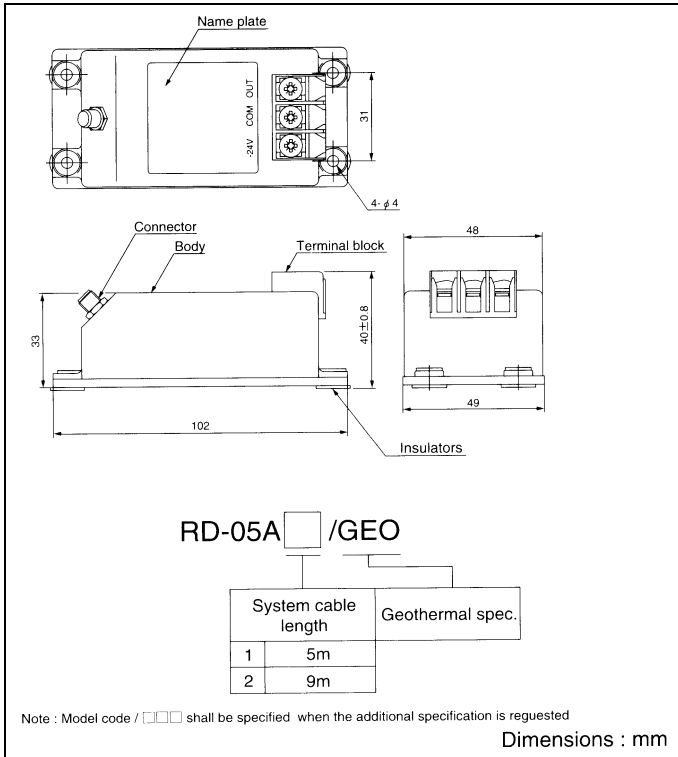
Sensor set gap *	■ Within 1.5mm (gap to gain output over 5Vpk-pk for JIS SS400 Module 4, Involute gear)
Frequency response *	■ DC to 15kHz (-3dB)
Output impedance *	■ 50Ω
Power supply *	■ -24VDC ±10%, Max. current consumption -15mA at 10kΩ resistance load
Max. Output voltage *	■ -20 to -22VDC
Sensor abnormal output voltage *	■ -0.7VDC
Sensor abnormal detecting time	■ Max. 45μsec. (time constant from max. output to sensor abnormal output)
Operating temperature range	■ Sensor: -40 to +177°C (-40 to +350°F) (connector: max. 125°C) Extension cable : -40 to +177°C (-40 to +350°F) Driver: -38 to +80°C (-36 to +176°F)
Sensor tip diameter	■ Approx. ø5mm or ø8mm
Cable diameter	■ Approx. ø3.6mm
Connector diameter	■ Approx. ø7.1 mm
System cable length	■ 5m±10% or 9m±10%

* The above specifications apply at 25°C with -24VDC power supply.

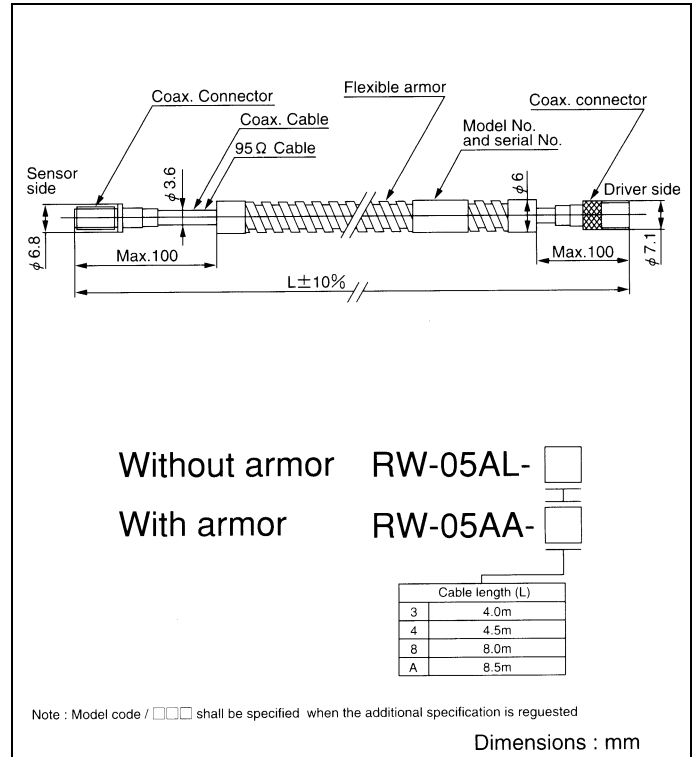
System Configuration



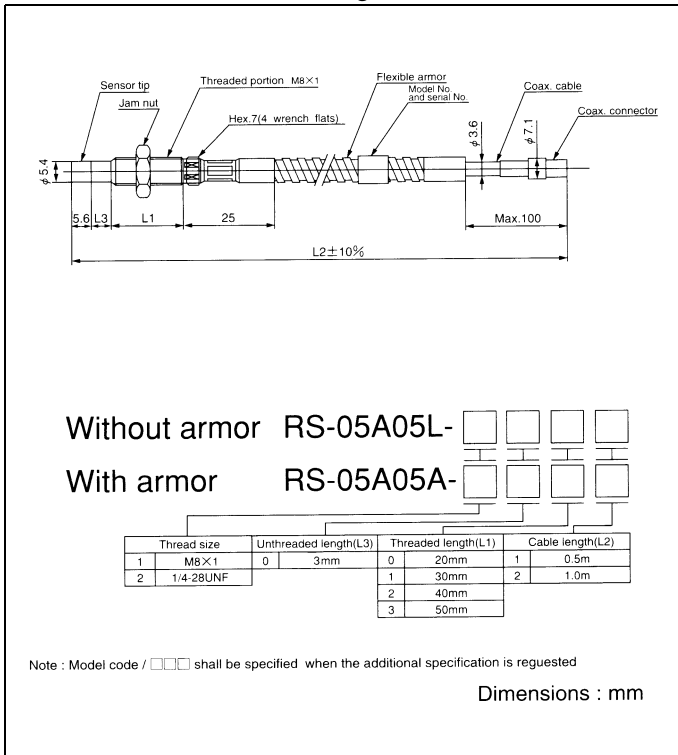
RD Driver Outline Drawing



RW Extension Cable Outline Drawing



RS-05A05 Outline Drawing



RS-05A08 Outline Drawing

