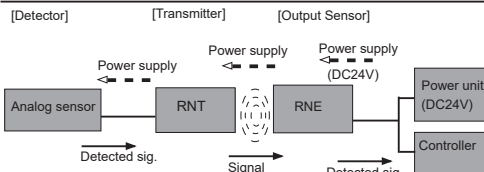


**Remote Sensor system /Analog signal
Analog Sensor 1 signal transmission**

Transmitter: RNT-1803-VS10-PU
Output Sensor: RNE-1803A-PU

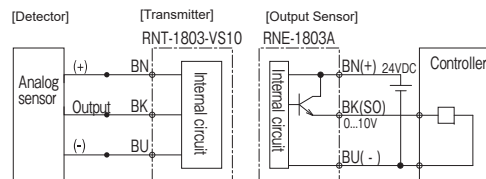
Construction of the system



[Function of each component]

- Detector** :Connects an analog sensor and transmits the detected signals to the Transmitter.
- Transmitter** : Provides power for the Detector, also passes detected signals from the Detector to the Output Sensor.
- Output Sensor**: Change the detect signal to analog signal (0...10V) and output to external unit and supplies power for operation of Transmitter at the same time.

Wiring diagram

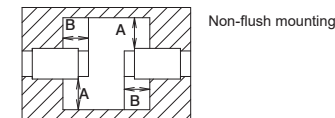


[Caution]

- Please use an analog sensor in accord with the forementioned condition as a detector.
- The cable length of RTE-1803A-PU must not exceed 10m.

Influence of surrounding metal

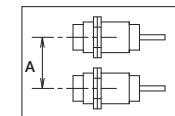
To avoid influence of surrounding metal, keep minimum spacing as described below;



Type number	A (mm)	B (mm)
RNT-1803-VS10-PU	20	15
RNE-1803A-PU		

Mutual interference

In order to prevent mutual interference between parallel-mounted sensors, keep minimum spacing as described below;

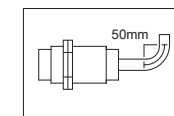
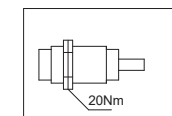


Type number	A (mm)
RNT-1803-VS10-PU	110
RNE-1803A-PU	

Installation

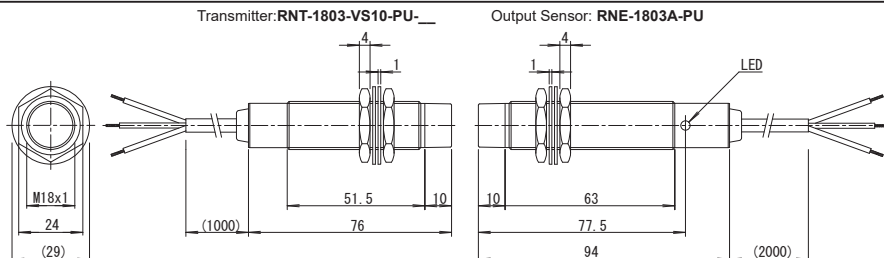
Tightening torque for attached nut is 20Nm(200kgf·cm).

The minimum bending radius for the sensors are 50mm.



* Never pull the cable strongly in installing.

Dimension



A041

Specification

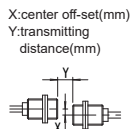
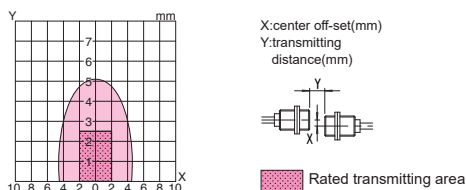
Type number	RNT-1803-VS10-PU	RNE-1803A-PU	Operating Temperature	0...+60 °C
Rated transmitting distance	0 ... 2.5 mm		Protection class	IP67
Center off-set	± 2 mm		Material Housing	Nickel plated brass
Supply voltage	-	DC 24 V ± 5% (incl.ripple)	Active surface	Nylon12
Current consumption	-	≤ 150 mA		

◆ Please note that the signal may become unstable (false signal or chattering) when the transmission distance and the center offset are outside the specification range.

◆ The inzone signal is a preliminary signal for confirming that the output signal is established within the specification range. Please note that it does not guarantee signals output outside the specification range.

Typical Transmitting Diagram

[Example: Supply voltage at 24V DC]



Rated transmitting area

- For detector, please use analog sensor which fulfill the specifications below.

- (1) Output voltage : 0 ...10 V
- (2) Operating voltage : DC 16 ... 24 V
- (3) Current consumption : ≤ 10 mA