

Transmit analog signal 0...10 V and power supply 20 V DC inductively

Analog signal transmission type for Analog sensor



Detector:
Standard analog sensor*
(0...10V output)

RNT/RNE makes it possible to use an analog sensor on a moving part such as a palette to detect the position of the target.

* Applicable sensor:

Please use an analog sensor which works in the condition mentioned below for a detector.

Output	0...10 V
Supply voltage	16...24 V
consumption current	≤ 10 mA

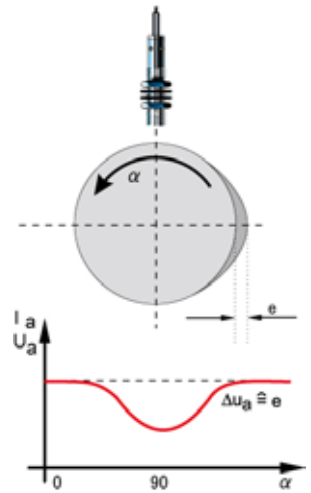
Transmitter: RNT

signal

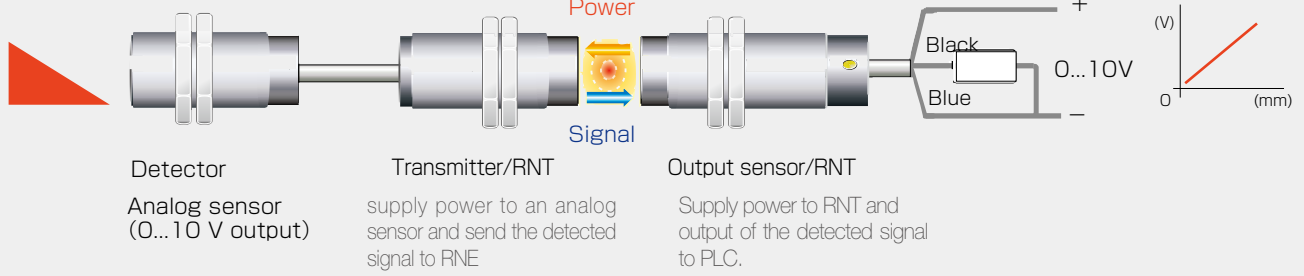
Poewr

Output sensor: RNE

0...10V output



Function



Advantage of Remote system

The hard wiring is not necessary.



The trouble of the cable is settled.

Remote sensor transmits



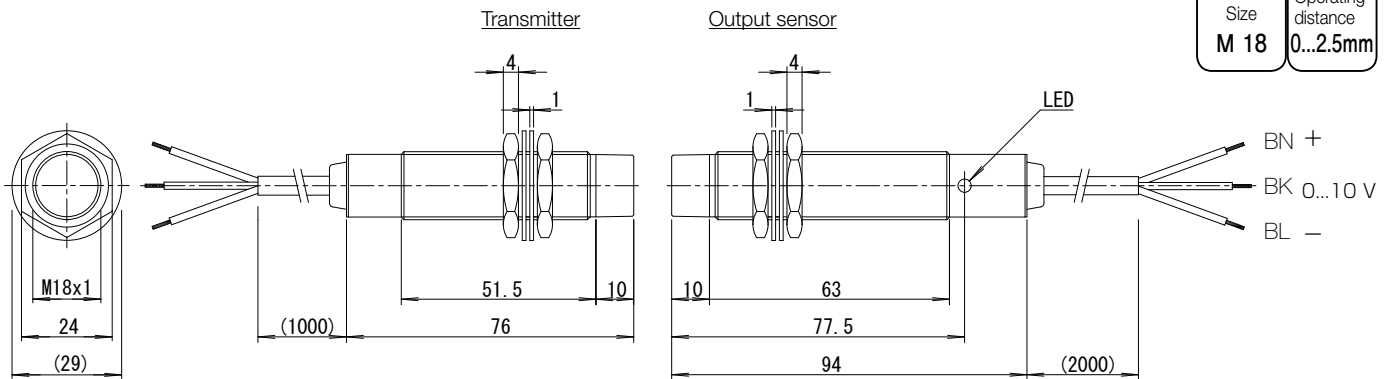
power and signal inductively.

The Connector work for sensors is not necessary in jig exchange.



The work-time becomes shortened.

Analog sensor type



Size
M 18
Operating distance
0...2.5mm

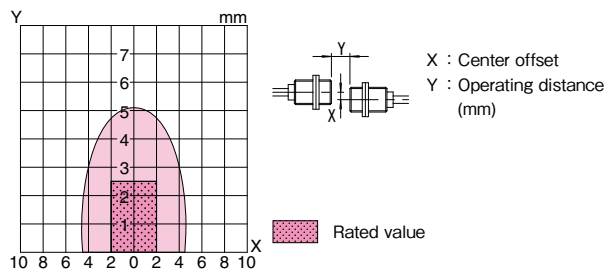
A041

Transmitter	
Type code	RNT-1803-VS10-PU-01
Output	0...10V
Drive voltage	20 ± 4 V DC
Drive current	max.10 mA
Input signal	1
Operating distance	0...2.5 mm
Center offset	±2 mm
Operating Temperature	0...+60 °C
Protection class	IP 67
Cable	PUR / φ 5 , 3x0.34 mm ²
Material	Housing: Nickel plated brass
	Active surface: Nylon12
Applicable analog sensor	(1) Output voltage : 0...10 V (2) Operating voltage : 16...24 V DC (3) Current consumption : ≤ 10 mA

Output sensor	
Type code	RNE-1803A-PU-02
Operational voltage	24 V DC ± 5% (incl. ripple)
Current consumption	≤ 150 mA
Output signal	1
Output	0...10 V
Resolution	0.1 %
Frequency of operation	≤ 0.2 sec.
LED	IN ZONE
Operating Temperature	0...+60 °C
Protection class	IP 67
Cable	PUR / φ 5 , 3x0.34 mm ²
Material	Housing: Nickel plated brass
	Active surface: Nylon12
Note	

Typical Transmitting Diagram (Supply voltage ar 24 V / non-flush mount)

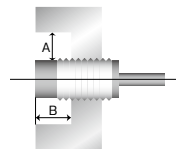
RNT-1803-VS10-PU-01 / RNE-1803A-PU-02



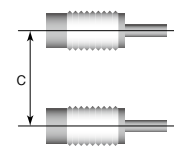
Mounting

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted sensors, keep the minimum free zone as described below.

Influence of surrounding metal



Mutual interference



Type code	A(mm)	B(mm)	C(mm)
RNT-1803-VS10-PU-__	20	15	110
RNE-1803A-PU-__			