Remote Sensor System

8 signal transmission type

Type code

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Controller</th>
<th>RPTA-8010-PU - Discontinued</th>
<th>RPTA-8010-FP - Discontinued</th>
<th>RPTA-8010N-PU - Discontinued</th>
<th>RPTA-8010P-PU - Discontinued</th>
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<th>RPEA-8010P-PU</th>
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Construction of the system

[Detector] [Transmitter] [Output Sensor]

Power supply

24VDC

Supply

Detector

RPTA

Detecting

signal

Transmission

24VDC

Transmitter

RPEA

Detected

signal

External

Controller

Output

sensor

NPN

PNP

Function of each component

Detector: A standard detector switch is used as Detector.
Up to 8 switches can be connected with Transmitter.

Transmitter: Provides power for Detector, also passes detected signals from Detector to Output Sensor.

Output Sensor: Puts out detected signal to external controller, also sends power for operating of Detector and Transmitter.

About R010 series

RPTA-8010-PU - RPTA-8010-FP - RPTA-8010N-PU - RPTA-8010P-PU: Discontinued.

Replacement see below.

Typical transmitting diagram

[Example: Supply voltage at 24V DC]

RPTA-8010-PU / RPTA-8010-FP / RPTA-8010N-PU / RPTA-8010P-PU

Wiring diagram

Connecting NPN type switch

Connecting PNP type switch

Connecting DC 24V type switch (incl. mechanical limit switches)

Influence of surrounding metal

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

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Mutual interference

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

Bending radius of cable

The minimum bending radius for the sensors is 50mm.

Never pull the cable strongly in installing.

Remote Sensor System

User’s Guide

Attention for Installation

(Read this section thoroughly before installation.)

Before using the Remote Sensor, read this manual carefully.

During installation and operation, pay close attention to the safety aspect.

- Ensure the power is switched off during installation or maintenance operations.
- Use a regulated power supply, e.g. switch-model type. Simpler power supplies, such as a full-wave rectification type, will cause the permissible ripple rating to be exceed and may cause malfunction.
- Ensure correct connections by reference to the wiring diagram.
- To avoid malfunction caused by induction noise, cable should be kept apart from motor or other power cable.
- When the resin (ABS or ABS + PBT) is used to the case or the transmission surface, please be sure to avoid organic solvent or liquid containing them to splash over.
- Please install cable and "wiring part" in that so there is no water and cutting fluid. (Water is transmitted to the internal from the cable core, there is a possibility of causing a problem such as short circuit or corrosion)
- Please do not face the output sensor to a metal at all times to avoid metal overheating or damage of the components.

Dimension

Transmitter: RPTA-8010-PU

Output sensor: RPEA-8010N-PU (NPN)

RPEA-8010-PU (PNP)

Specifications

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Drive voltage

24V ± 5%

Distance

Distance range:

24V DC ± 5%

Connection signal

Input signal

Supply voltage

24VDC ± 5%

Power supply

100mA

Power supply

100mA

Connector type

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