Remote System
User's Guide

Remote Sensor System
Switch Signal / 8 signal transmission type

Transmitter : RGPT-9012-V2430
Output Sensor : RGPE-9012-V2430N/P

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.
Also use a regulated power supply, e.g. switch-mode type.
Simpler power supplies, such as a full-wave rectification type, will cause the permissible ripple ratio to be excessive 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.
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.

Specifications

<table>
<thead>
<tr>
<th>Type number</th>
<th>Rated transmitting distance</th>
<th>Emitter-off set</th>
<th>Drive current</th>
<th>Drive voltage</th>
<th>Supply voltage</th>
<th>Current consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>RGPT-9012-V2430-PUN</td>
<td>4-12mm</td>
<td>5 mm</td>
<td>300mA</td>
<td>24V DC±1.5V</td>
<td>24V DC±10%</td>
<td>≤3 A</td>
</tr>
<tr>
<td>RGPE-9012-V2430N-PUN</td>
<td>4-12mm</td>
<td>5 mm</td>
<td>300mA</td>
<td>24V DC±1.5V</td>
<td>24V DC±10%</td>
<td>≤3 A</td>
</tr>
<tr>
<td>RGPE-9012-V2430P-PUN</td>
<td>4-12mm</td>
<td>5 mm</td>
<td>300mA</td>
<td>24V DC±1.5V</td>
<td>24V DC±10%</td>
<td>≤3 A</td>
</tr>
</tbody>
</table>

Transmitting area diagram

Example: Supply voltage at 24V DC

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

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 are 50mm.

Connecting NPN type switch

**Note**
Please note that the cable length of an output sensor may not longer than 10m. The CE marking verifies that our products comply with the requirements of EMC directive. The surge test to an output sensor is not carried out.
When using an output sensor with cable length longer than 10m, a measure to protect the sensor from surge current should be taken.

Connecting PNP type switch (incl. mechanical limit switches)

Connecting NPN type switch (incl. mechanical limit switches)