Wireless Power Supply & DeviceNet communication

B&PLUS has offered various Remote system to meet customer’s needs.

Since 1985 Remote system released

Switch Signal Transmission: Input 8+Output 8

RS-232C Data Transmission

CC-Link Data Transmission

24VDC/2A + DeviceNet signal Transmission

Remote coupler system makes DeviceNet movable!!

RCD33E/RCD33T connect the trunk line or the drop line of DeviceNet wirelessly.

Apply Remote coupler system!
DeviceNet Data Transmission

Remote

<table>
<thead>
<tr>
<th>Type code</th>
<th>DeviceNet</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCD33T-211-DNC</td>
<td></td>
</tr>
</tbody>
</table>

- Drive voltage: 24V ± 1.5V DC
- Drive current: ≤ 2A
- Operating distance: 3...5mm
- Center offset: ± 4mm
- Drive current: ≤ 2A
- Operating temperature: 0...+50℃
- Protection class: IP 67
- Connector: M12 / Signal: 5 pin (Male), Power: 4 pin (Female)
- Material Housing: Aluminum+alumite treated (metal)
  Active surface: ABS + PBT (resin)

Base

<table>
<thead>
<tr>
<th>Type code</th>
<th>DeviceNet</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCD33E-211-DNC</td>
<td></td>
</tr>
</tbody>
</table>

- Operational voltage: 24V ± 5% (incl. Ripple)
- Current consumption: ≤ 3A
- Communication: DeviceNet (CAN-Bus) data
  Delay: ≤ 0.5μsec.
- Start-up time: ≤ 2sec.*
- Operating temperature: 0...+50℃
- Protection class: IP 67
- Connector: M12 / Signal: 5 pin (Male), Power: 4 pin (Female)
- Material Housing: Aluminum+alumite treated (metal)
  Active surface: ABS + PBT (resin)

Note

- It is not built in the terminator. Prepare the terminator when necessary.
- The baud rate of RCD33 is 125K ~ 500K bps.
- The connector and cable should be prepared separately.

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

<table>
<thead>
<tr>
<th>Type code</th>
<th>A(mm)</th>
<th>B(mm)</th>
<th>C(mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCD33T-211-DNC</td>
<td>50</td>
<td>45</td>
<td>300</td>
</tr>
<tr>
<td>RCD33E-211-DNC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note

- It is the time of Remote system.
  The start-up time of DeviceNet varies with system.

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

<table>
<thead>
<tr>
<th>Type code</th>
<th>Distance</th>
<th>Size</th>
<th>Drive current ≤ 2A</th>
</tr>
</thead>
</table>
| RCD33T-211-DNC | 3...5mm  | 97 x 90 | [
| RCD33E-211-DNC | 3...5mm  | 97 x 90 | [