Remote Sensor System

- **8 signal transmission type**
  - Transmitter: RPTB-1803D-PU__
  - Output Sensor: RPE8-1800N-PU__
- **B signal transmission type/anti-weld slag type**
  - Transmitter: RPTB-TF1803D-PU__
  - Output Sensor: RPE8-1800N-P-PU__

**Construction of the system**

**Function of each component**

- **Detector**: Connects detector switches (max. 8) and transmits the detected signals to 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.

**Influence of surrounding metal and mutual interference**

In order to avoid mutual interference between parallel-mounted sensors, the cable length between RPE8-(TF)1800_ and a power unit is longer than 10m because it is not taken procedure to surge.

**Specification of Remote sensor system**

- **Type number**
  - Transmitter: RPT8-1803D-PU__
  - Output sensor: RPE8-1800N-PU__
- **Drive voltage**: 12VDC ± 1.5V
- **Drive current**: max 1mA
- **Transmission distance**
  - Center offset: ± 2.5mm
  - Residual voltage: ≥ 3.5V
- **Ripple rating**: 18V ± 10% (incl. ripple)

**Specification of Detectors**

- **Supply voltage**: 12VDC
- **Load current**: max 20mA
- **Leakage current**: ≤ 1mA

**Effects of maintenance operations**

- Use a regulated power supply, e.g. switch-model type.
- Ensure that the drive current is dependent on the transmission distance between Transmitter and Output Sensor.

**Installation**

- Tightening torque for attached nut is 20Nm/200kgf-cm.
- The minimum bending radius for the sensors are 50mm.

**Transmitting area diagram**

- The drive current is dependent on the transmission distance between Transmitter and Output Sensor. The degree of off-set between them refers to Transmitting area diagram.

**User's Guide**

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