

Super-pocket radio remote control system PRC3-380 series



The same specified low-power type as the PRC3 series (4 or 6 outputs), but it has 8 outputs instead.

The transmitter comes in the same compact size as that of the existing pocket radio remote control system.

The receiver features an improved water-proof capability. Also, the receiving antenna is built into the receiver, obviating the need to install a receiving antenna and antenna cable.

Features

1. The transmitter has been slimly crafted into a pocket-sized unit with a built-in antenna and no protruding parts. In addition, by molding rubber materials into an integrated form, the structure is highly resistant to drops and other impacts.
2. The system is compliant with the specified low-power uses stipulated under the Japanese Radio Law, obviating the need for any license in Japan and enabling immediate operation. Furthermore, a communication range of more than 80 meters (measured using the method employed by Tokyo Keiki) is ensured, enabling the system to be used stably.
3. The safety function equipped in the original pocket RC system PRC2 series are also inherited in the PRC3 series, such as the shut down function upon receipt of jamming signals or high level noises, pair-setting function using station codes, and many more.
4. The receiver has a built-in receiving antenna, obviating the need to install a receiving antenna and antenna cable. What is more, it has a water-proof structure with excellent environmental resistance.
5. To prevent unnecessary battery consumption, the transmission of the radio signals is automatically shut down after 3 seconds of non-operation period (Periodic Operation Function). Furthermore, the transmitter will automatically turn off after 3 or more minutes of non-operation period (Auto Power Off Function).

Model Code

● System (transmitter + receiver + accessories)

U-PRC3-380-10

- 1 System designation: PRC3-380 series
No. of operation signals: 8 signals
- 2 Optional specifications of transmitter
 - 0: Standard
 - 1: No auto power-off function
 - 2: No periodic operation function
- 3 Design no.

● Transmitter

PRC3-TX-380-10

- 1 System designation: PRC3-380 series
No. of function switches: 8 switches
- 2 Optional specifications of transmitter
 - 0: Standard
 - 1: No auto power-off function
 - 2: No periodic operation function
- 3 Design no.

● Receiver

PRC3-RX-380-10

- 1 System designation: PRC3-380 series
No. of outputs: 8 outputs
- 2 Design no.

M
3-1

Electronics Components

Specifications

Transmitter specifications

Transmit frequencies	429 MHz band, 40 frequencies The 40 frequencies are divided up into 10 groups, and one frequency is automatically selected from four frequencies by one system.
Modulation system	FSK-FM (radio signal format: F1D)
Standard complied with	ARIB STD-T67
Control system	Digital code transmission system
Function switches	Momentary switches ON/OFF (common to each switch), 8 switches
Operable range	Approx. 80 m (under favorable ambient conditions; measured using the method employed by Tokyo Keiki)
Antenna	Built-in antenna
Power requirements	1.5 V "AAA" dry batteries x 3 (alkaline batteries)
Continuous usage time	Approx. 15 hours (measured using the method employed by Tokyo Keiki)
Power display	Monitor lamps (green and red)
Structure	Drip-proof (compliant with JIS D 0203 R1)
Working temperature range	-20 °C~+60 °C
Storage temperature range	-20 °C~+70 °C
Weight	Approx. 140 g (including batteries)

System configuration

Product	Qty
Transmitter	1
Receiver	1
Strap (for transmitter)	1
Transparent operation nameplate (for transmitter)	1

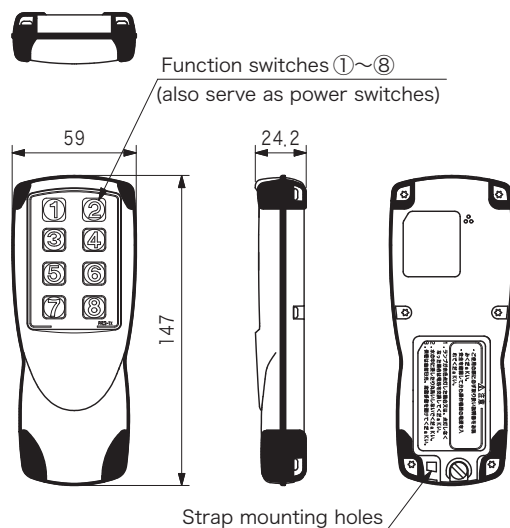
Note: The batteries are not provided with the system.

Receiver specifications

Receive frequencies	429 MHz band
Output specifications	Relay output Resistive load 5 A Inductive load 2 A (COS $\phi=0.4$)
Output circuit	Relay contact output circuit 9 outputs (one of which is the RUNOUT output that turns ON when operations are performed)
Operation response time	Approx. 0.3 sec. (after periodic operation function has been activated) Approx. 0.1 sec. (when a switch is operated again within 3 seconds after it was first operated) (As measured using the method employed by Tokyo Keiki)
Operational error prevention mechanism	Verification using 16-bit station code (ID code)
Antenna	Built-in antenna
Supply voltage	DC 9 V~31 V
Power display	Monitor lamp (red)
Current consumption	Less than 1.2 A (excluding load current)
Vibration resistance	JIS D 1601-1995 Class 3B, Grade 70 (frequency category: 100)
Structure	Water resistance: JIS D 0203-1994 S2
Working temperature range	-20 °C~+60 °C
Storage temperature range	-20 °C~+70 °C
Weight	Approx. 800 g

Dimensions

● Transmitter (PRC3-TX-380-10)



● Receiver (PRC3-RX-380-10)

