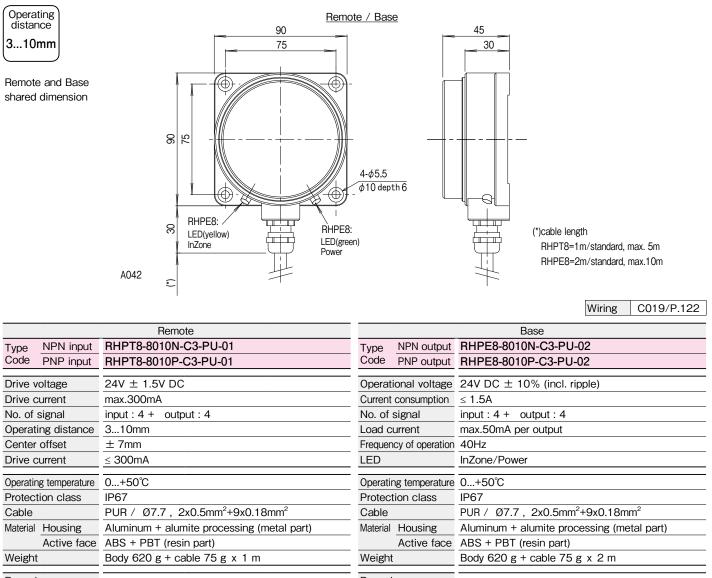
## **Remote Coupler System** Switch Signal

4+4 Switch Signal type Remote · Base



#### 4 + 4 switch signal / Size : 90 x 90



140. 01 5161101		140. 01 5161101		
Operating distance	310mm	Load current	max.50mA per output	
Center offset	± 7mm	Frequency of operation	40Hz	
Drive current	≤ 300mA	LED	InZone/Power	
Operating temperature	0+50°C	Operating temperature	0+50°C	
Protection class	tion class IP67 Protection class		IP67	
Cable	PUR / Ø7.7, 2x0.5mm <sup>2</sup> +9x0.18mm <sup>2</sup>	Cable	PUR / Ø7.7 , 2x0.5mm <sup>2</sup> +9x0.18mm <sup>2</sup>	
Material Housing	Aluminum + alumite processing (metal part)	Material Housing	Aluminum + alumite processing (metal part)	
Active face	ABS + PBT (resin part)	Active face	ABS + PBT (resin part)	
Weight	Body 620 g + cable 75 g x 1 m	Weight	Body 620 g + cable 75 g x 2 m	
Remarks		Remarks		

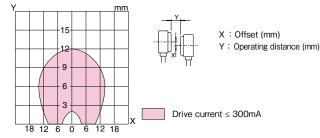
#### Applicable sensor and actuator

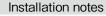
Remote can be connected up to 4 sensors and 4 acuators.

Supply voltage	24V DC	
Total current consumption	300mA 以下	
Residual voltage		
Load current		

- Sensors and actuators should have 24V DC rating. The total current consumption of detectors and driving units must not exceed the rated drive current

Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount) RHPT8-8010 -C3-PU-\_ / RHPE8-8010 -C3-PU-\_ \_



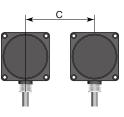


In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Remote or Base, keep the minimum distances as described below.

Surrounding metal

Parallel installation

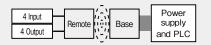


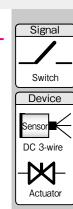


Type Code	A(mm)	B(mm)	C(mm)
RHPT8-8010 🗌 -C3-PU	50	45	200
RHPE8-8010 🗌 -C3-PU	50	45	300









signal

### Remote Coupler

		4+4 Switch Signal
		8+8 Switch Signal
		64+32 Switch Signal
		RS-232C
		CC-Link
		DeviceNet

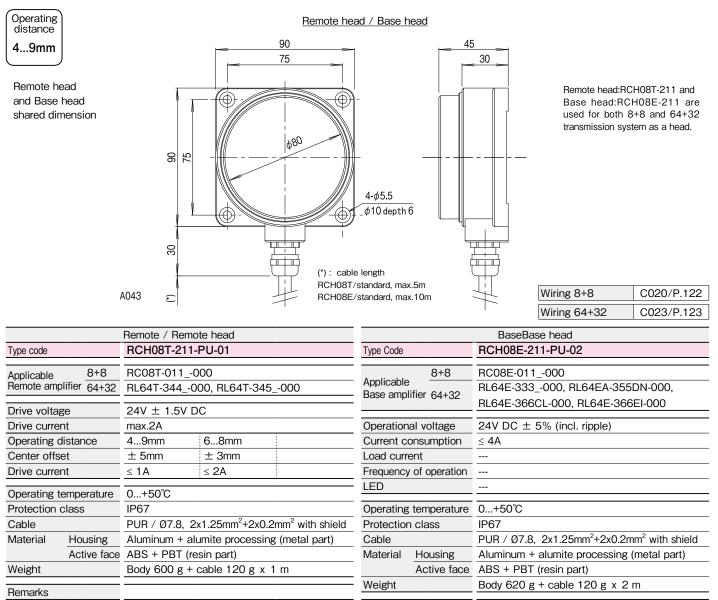
Exclusive Sensor

Terminal box

Wiring



#### 8+8 switch signal and 64+32 switch signal / Size : 90 x 90



Remarks

The Remote head in 8+8 signal transmission type can not work with the Base head in 64+32 signal transmission type, and vice versa, though these heads are shared in both transmission type.

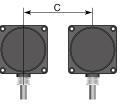
#### Installation notes

In order to avoid influence of surrounding metal, or to avoid mutual influence between parallel-mounted Remote and Base, keep the minimum distances as described below.

Surrounding metal

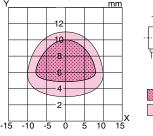
Parallel installation



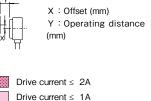


Type Code	A(mm)	B(mm)	C(mm)
RCH08T-211-PU	50	45	300
RCH08E-211-PU	50	40	300

Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount) RCH08T-211-PU-\_\_/ RCH08E-211-PU-\_\_



5 6 5 16 15



8 Input	Remote Remote Base Base	Power supply
8 Output	amplifier head head amplifier	and PLC

RCH08T RCH08E RC08T RC08E

Wiring

C020/P.122

♥ o signal

Signal

Switch Device

Sensor

DC 3-wire

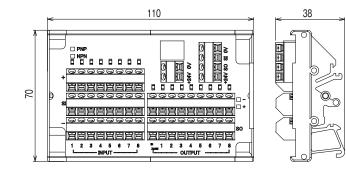
Actuator

Remote Coupler

#### 8+8 switch signal / Size : 110x70

Remote amplifier / Base amplifier

Remote amplifier and Base amplifier shared dimension



#### A044a

Remote amplifier Base amplifier RC08T-011N-000 RC08E-011N-000 NPN NPN Туре Туре Code PNP RC08T-011P-000 Code PNP RC08E-011P-000 8+8 Switch Signa Applicable Remote head RCH08T-211-PU RCH08E-211-PU Applicable Base head 64+32 Operational voltage 24V DC ± 10% (from Remote head) 24V DC ± 10% (incl. ripple) Operational voltage Switch Signa Current consumption  $\leq 150 mA$ Current consumption  $\leq 150 mA$ Input<sup>1)</sup> No. of signal Input<sup>3)</sup> 8 (SI1...8) No. of signal 8 (SI1...8) Input logic NPN or PNP Input logic NPN or PNP Load current 7 mA per input Load current 7 mA per input Output<sup>2)</sup> No. of signal 8 (SO1...8) + 1 (InZone) Output<sup>4)</sup> No. of signal 8 (SO1...8) + 1 (InZone) Output logic NPN or PNP Output logic NPN or PNP Load current max. 300mA per output Load current max. 300mA per output Frequency of operation 100Hz Frequency of operation 100Hz LED LED input and output signal, InZone input and output signal, InZone Operating temperature 0...+50°C 0...+50°C Operating temperature Protection class IP67 Protection class IP67 Mounting DIN rail 32/35mm Mounting DIN rail 32/35mm Material Body Nylon Material Body Nylon 130 g Weight Weight 130 g Remarks Remarks

#### Applicable sensor and actuator

- Remote amplifier can connect up to 8 sensors and 8 actuators.

-The total current consumption of Remote amplifier, sensors and actuators must not exceed 2A the drive current which is supplied by the Remote head.

Supply voltage	24V DC
Total current consumption	$\leq 2A$
Residual voltage	
Load current	

#### Base amplifier with Enable signal

The Base amplifier with an enable signal is also available. It stops the output of detection signals from Base amplifier to controller and control signals from Remote amplifier to actuators.

Enable signal type : RC08EA-011N-000 RC08EA-011P-000

Since the input signal No. 8 is assigned for Enable signal, the usable control signal from the controller is up to 7.

Wiring

1) Input from sensor to Remote amplifier

2) Output from Remote amplifier to actuators

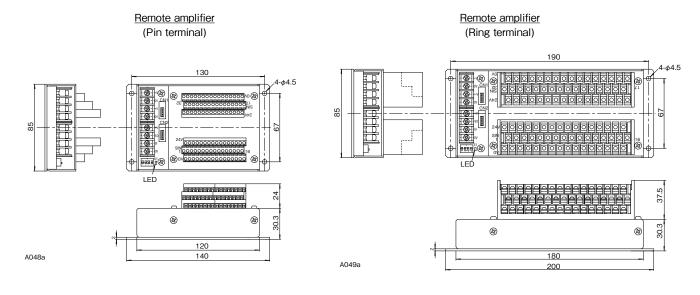
3) Input from the controller to Base amplifier

4) Output from Base amplifier to the contller

64+32 Switch Signal type (Amplifier separation type) Remote amplifier • Input unit • Output unit



64+32 switch signal



Wiring Please refer to the User's Guide.

	Remote amplifier (Pin terminal)	Remote amplifier (Ring terminal)
Type Code NPN	RL64T-344N-000	RL64T-345N-000
PNP	RL64T-344P-000	RL64T-345P-000
Applicable Remote head	RCH08T-211-PU	RCH08T-211-PU
Applicable Base amplifier	RL64E-333000, RL64EA-355DN-000,	RL64E-333000, RL64EA-355DN-000,
	RL64E-366CL-000, RL64E-366EI-000	RL64E-366CL-000, RL64E-366EI-000
Input logic	NPN or PNP	NPN or PNP
No. of input signal	32	32
Load current	7mA per input	7mA per input
Frequency of operation	20Hz	20Hz
Current consumption	≤ 70mA	≤ 70mA
LED	Ready	Ready
Material Housing	SPCC-SD, Glass-epoxy	SPCC-SD, Glass-epoxy
Cover plate		
Connection Sensor	Terminal block : 3 pole x 32	Terminal block : 3 pole x 32
Remote head	Terminal block : 4 pole x 1	Terminal block : 4 pole x 1
Input/Output unit	Connector: e-con , 4-pin x 2	Connector: e-con , 4-pin x 2
Operating temperature	0+50°C	0+50°C
Weight	620 g	1,040 g
Remarks		

#### Applicable sensor and actuator

- Remote amplifier RL64T-344/345 can connect up to 32 detectors directly without Input unit.

- Please use a sensor which works definitely in the condition described below.

Supply voltage	24 V DC
Total current consumption	$\leq 2 A$
Residual voltage	$\leq 6 V$
Residual current	≤ 1 mA

-The total of the current consumption of all units being connected to Remote head - Remote amplifier, an input and output unit, sensors and actuators must not exceed 2A the drive current which is supplied by the Remote head.

#### Notes

- Prepare the cable, 4 conductors and outer diameter phi 1.35 ... 1.6 mm to connect an input unit and an output unit.

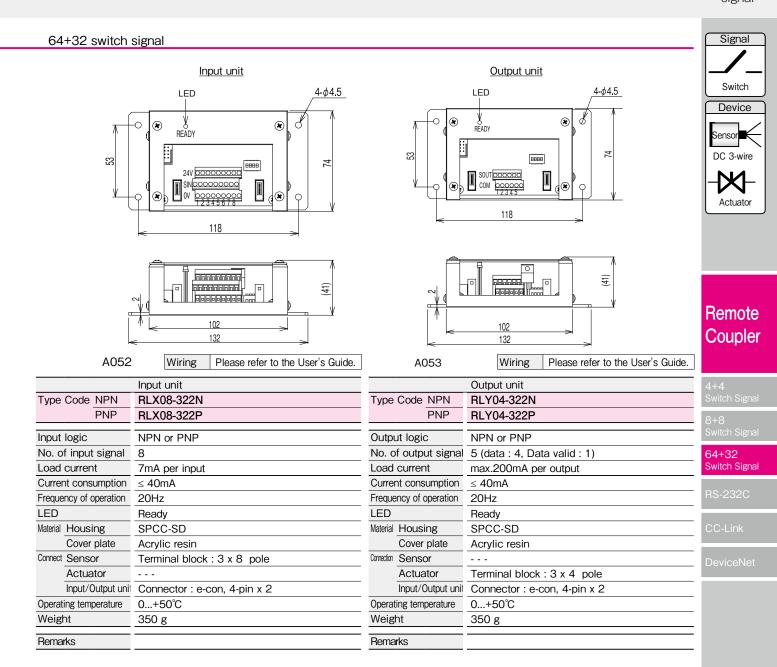
An insulation displacement connector is attached to each unit.

32 Input Input unit	32 Input Remote amplifier	Remote	Base	Power supply
32 Output Output unit		head with head	Campinion	and PLC

RL64T

# 64

RLX08 RLY04



Exclusive

#### Applicable sensor and actuator

- Please use a sensor which works definitely in the condition described below.

Supply voltage	24V DC
Total current consumption	$\leq 2 A$
Residual voltage	$\leq 6 V$
Residual current	≤ 1 mA

- -The total of the current consumption of all units being connected to Remote head Remote amplifier, an input and output unit, sensors and actuators must not exceed 2A the drive current which is supplied by the Remote head.
- The input unit connects up to 8 sensors. It can connect up to 4. (Max 64 sensors can be connected to the amplifier and input units.)
- The output unit connects up to 4 actuators. It can connect up to 8

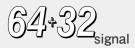
#### Notes

 Prepare the cable, 4 conductors and outer diameter phi 1.35 ... 1.6 mm to connect an input unit and an output unit.
An insulation displacement connector is attached to each unit.

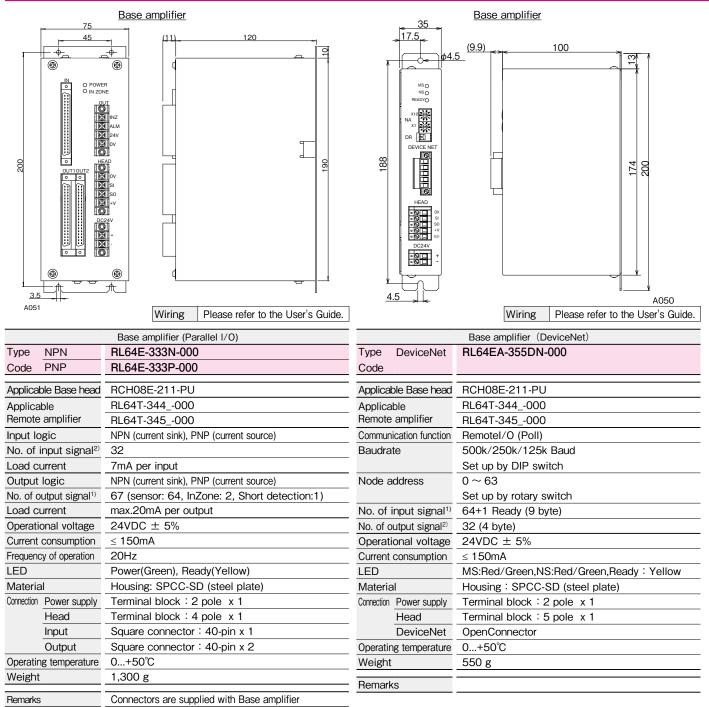
Wiring

## Remote Coupler System Switch Signal

64+32 Switch Signal type (Amplifier separation type) Base amplifier



64+32 switch signal



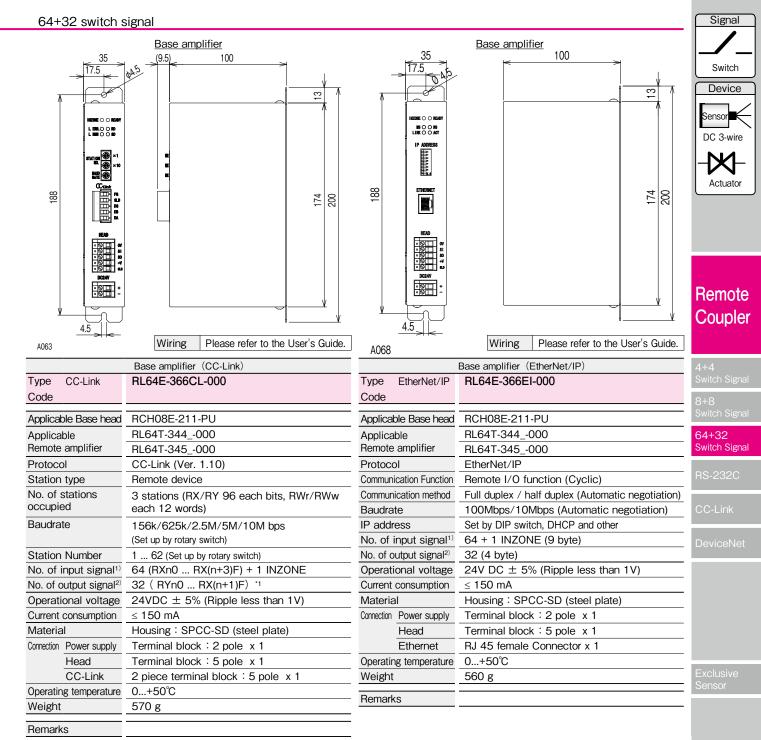
1) No. of output signal from Remote system

2) No. of input signal to Remote system

Please refer to the manual for more information.

32 Input Input unit	32 Input Remote	Remote	Base	Power supply
32 Output Output unit	amplifier	head head	amplifier	and PLC





\*1 n : The address which is allocated for the master station by setting of station number.

Wiring