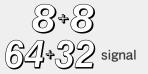
## Remote Coupler System Switch Signal

8+8 Switch Signal type / Remote · Base 64+32 Switch Signal type / Remote head · Base head



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



Remote head and Base head shared dimension

## 90 75 30 8 90 4-\$5.5 \$\phi 10 \text{ depth 6}\$

(\*): cable length RCH08T/standard, max.5m

RCH08E/standard, max.10m

Remote head / Base head

Remote head:RCH08T-211 and Base head:RCH08E-211 are used for both 8+8 and 64+32 transmission system as a head.

C020/P.122

C023/P.123

		Remote / Remote head			
Type code		RCH08T-211-PU-01			
Applicable 8+8		RC08T-011000			
Remote ampl	ifier 64+32	RL64T-344000, RL64T-345000			
Drive voltage		24V ± 1.5V DC			
Drive current		max.2A			
Operating di	stance	49mm	68mm		
Center offset		± 5mm	± 3mm		
Drive current		≤ 1 A	≤ 2A		
Operating temperature		0+50°C			
Protection class		IP67			
Cable		PUR / Ø7.8, 2x1.25mm <sup>2</sup> +2x0.2mm <sup>2</sup> with shield			
Material	Housing	Aluminum + alumite processing (metal part)			
Active face		ABS + PBT (resin part)			
Weight		Body 600 g + cable 120 g x 1 m			

A043

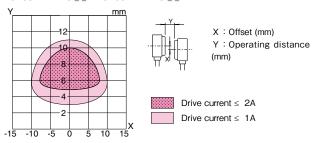
		BaseBase head	
Type Code		RCH08E-211-PU-02	
Applicable Base ampl	8+8 ifier 64+32	RC08E-011000 RL64E-333000, RL64EA-355DN-000, RL64E-366CL-000, RL64E-366EI-000	
Operation	al voltage	24V DC ± 5% (incl. ripple)	
Current co	onsumption	≤ 4A	
Load curre	ent		
Frequency	of operation		
LED			
Operating	temperature		
Protection	n class	IP67	
Cable		PUR / Ø7.8, 2x1.25mm <sup>2</sup> +2x0.2mm <sup>2</sup> with shield	
Material	Housing	Aluminum + alumite processing (metal part)	
	Active face	ABS + PBT (resin part)	
Weight		Body 620 g + cable 120 g x 2 m	
Remarks			

Wiring 8+8

Wiring 64+32

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.

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



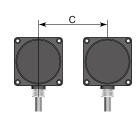
#### Installation notes

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





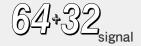


Type Code	A(mm)	B(mm)	C(mm)
RCH08T-211-PU	F0	45	200
RCH08E-211-PU	50	45	300

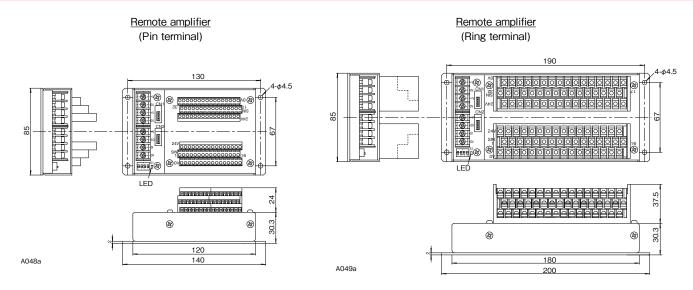
Remarks

### **Remote Coupler System Switch Signal**

#### 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 amplifie	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 uni	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	≤ 2 A
Residual voltage	≤ 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  $\dots$  1.6 mm to connect an input unit and an output unit. An insulation displacement connector is attached to each unit.

Power

supply

and PLC

Base

amplifier

Base

head

Input unit

Output unit

32 Input

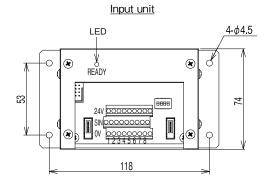
32 Output

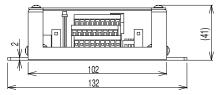
32 Input

Remote

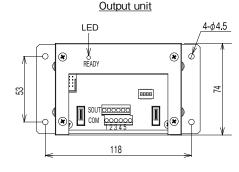
amplifie

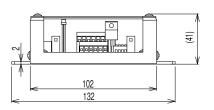
head





A052 Wiring Please refer to the User's Guide.





A053 Wiring Please refer to the User's Guide.

	0
	Input unit
Type Code NPN	RLX08-322N
PNP	RLX08-322P
Input logic	NPN or PNP
No. of input signal	8
Load current	7mA per input
Current consumption	≤ 40mA
Frequency of operation	20Hz
LED	Ready
Material Housing	SPCC-SD
Cover plate	Acrylic resin
Connect Sensor	Terminal block: 3 x 8 pole
Actuator	
Input/Output unit	Connector: e-con, 4-pin x 2
Operating temperature	0+50℃
Weight	350 g
Remarks	

	Outer to unit
	Output unit
Type Code NPN	RLY04-322N
PNP	RLY04-322P
Output logic	NPN or PNP
No. of output signal	5 (data : 4, Data valid : 1)
Load current	max.200mA per output
Current consumption	≤ 40mA
Frequency of operation	20Hz
LED	Ready
Material Housing	SPCC-SD
Cover plate	Acrylic resin
Connection Sensor	
Actuator	Terminal block: 3 x 4 pole
Input/Output unit	Connector: e-con, 4-pin x 2
Operating temperature	0+50℃
Weight	350 g
Remarks	

## Notes

An insulation displacement connector is attached to each unit.

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

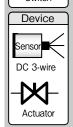
#### Applicable sensor and actuator

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

Supply voltage	24V DC
Total current consumption	≤ 2 A
Residual voltage	≤ 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. 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

Signal Switch



### Remote Coupler

64+32

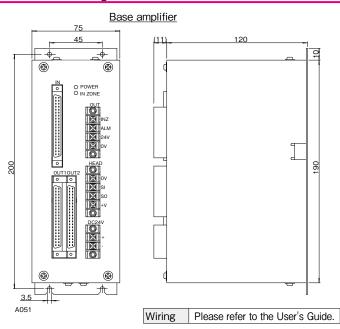
Switch Signa

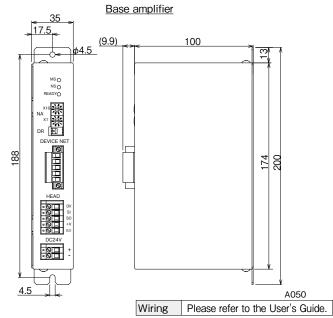
# Remote Coupler System Switch Signal

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



#### 64+32 switch signal





Base amplifier (Parallel I/O)				
Type 1	NPN	RL64E-333N-000		
	PNP	RL64E-333P-000		
0000 1	111	1120-12 0001 000		
Applicable	e Base head	RCH08E-211-PU		
Applicab	le	RL64T-344000		
Remote a	amplifier	RL64T-345000		
Input log	gic	NPN (current sink), PNP (current source)		
No. of in	put signal <sup>2)</sup>	32		
Load cur	rrent	7mA per input		
Output lo	ogic	NPN (current sink), PNP (current source)		
No. of our	tput signal <sup>1)</sup>	67 (sensor: 64, InZone: 2, Short detection:1)		
Load cur	rrent	max.20mA per output		
Operation	nal voltage	24VDC ± 5%		
Current c	onsumption	≤ 150mA		
Frequency	of operation	20Hz		
LED		Power(Green), Ready(Yellow)		
Material		Housing: SPCC-SD (steel plate)		
Connection F	Power supply	Terminal block: 2 pole x 1		
I	Head	Terminal block: 4 pole x 1		
Input Square connector: 40-pin x 1		Square connector: 40-pin x 1		
(	Output Square connector : 40-pin x 2			
Operating	temperature	0+50°C		
Weight		1,300 g		
Remarks		Connectors are supplied with Base amplifier		

	<u> </u>
	Base amplifier (DeviceNet)
Type DeviceNet	RL64EA-355DN-000
Code	
Applicable Base head	RCH08E-211-PU
Applicable	RL64T-344 -000
Remote amplifier	RL64T-345000
Communication function	Remotel/O (Poll)
Baudrate	500k/250k/125k Baud
	Set up by DIP switch
Node address	0~63
	Set up by rotary switch
No. of input signal <sup>1)</sup>	64+1 Ready (9 byte)
No. of output signal <sup>2)</sup>	32 (4 byte)
Operational voltage	24VDC ± 5%
Current consumption	≤ 150mA
LED	MS:Red/Green,NS:Red/Green,Ready: Yellow
Material	Housing: SPCC-SD (steel plate)
Connection Power supply	Terminal block : 2 pole x 1
Head	Terminal block: 5 pole x 1
DeviceNet	OpenConnector
Operating temperature	0+50°C
Weight	550 g
Remarks	

- 1) No. of output signal from Remote system
- 2) No. of input signal to Remote system

Please refer to the manual for more information.



Signal

Switch Device

Sensor

DC 3-wire

Actuator



Input unit

Output unit

32 Input

32 Output

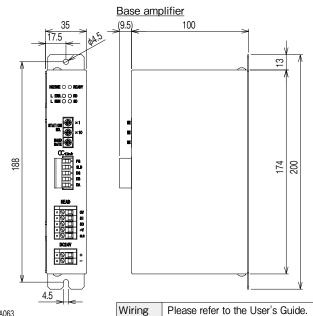
32 Input

Remote

amplifier

Remote

head



		Base a
_	35 17.5 0 4 5	
	INZONE O O READY  BS O O MS LINK O O ACT	
	IP ADDRESS	
188	ETHERMET	
	HEAD OW SI	
¥	4.5	L
A068	<del></del>	Wiri

Power supply

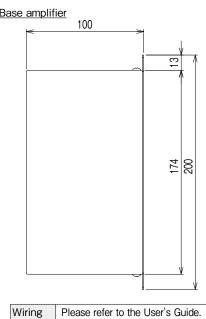
and PLC

Base

amplifier

Base

head



Remote
Coupler

4+4 Switch Signal	
8+8	

Switch Signal	

## Switch Signal

Exclusive Sensor

A063	Wiring Please refer to the User's Guide.
	Base amplifier (CC-Link)
Type CC-Link Code	RL64E-366CL-000
Applicable Base hea	d RCH08E-211-PU
Applicable	RL64T-344000
Remote amplifier	RL64T-345000
Protocol	_CC-Link (Ver. 1.10)
Station type	Remote device
No. of stations occupied	3 stations (RX/RY 96 each bits, RWr/RWw each 12 words)
Baudrate	156k/625k/2.5M/5M/10M bps
	(Set up by rotary switch)
Station Number	1 62 (Set up by rotary switch)
No. of input signal	64 (RXn0 RX(n+3)F) + 1 INZONE
No. of output signal	2) _32 ( RYn0 RX(n+1)F) *1
Operational voltage	e 24VDC ± 5% (Ripple less than 1V)
Current consumption	≤ 150 mA
Material	Housing: SPCC-SD (steel plate)
Connection Power supply	Terminal block : 2 pole x 1
Head	Terminal block: 5 pole x 1
CC-Link	2 piece terminal block : 5 pole x 1
Operating temperatur	e 0+50°C
Weight	570 g
Remarks	

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

A068	0 1111 11 11 11 11 11			
Base amplifier (EtherNet/IP)				
Type EtherNet/IP RL64E-366EI-000				
Code				
Applicable Base head	RCH08E-211-PU			
Applicable	RL64T-344000			
Remote amplifier	RL64T-345000			
Protocol	EtherNet/IP			
Communication Function	Remote I/O function (Cyclic)			
Communication method	Full duplex / half duplex (Automatic negotiation)			
Baudrate	100Mbps/10Mbps (Automatic negotiation)			
IP address	Set by DIP switch, DHCP and other			
No. of input signal <sup>1)</sup>	64 + 1 INZONE (9 byte)			
No. of output signal <sup>2)</sup>	32 (4 byte)			
Operational voltage	24V DC $\pm$ 5% (Ripple less than 1V)			
Current consumption	≤ 150 mA			
Material	Housing: SPCC-SD (steel plate)			
Connection Power supply	Terminal block : 2 pole x 1			
Head	Terminal block: 5 pole x 1			
Ethernet	RJ 45 female Connector x 1			
Operating temperature	0+50°C			
Weight	560 g			
Remarks				
Operational voltage Current consumption  Material  Connection  Power supply  Head  Ethernet  Operating temperature  Weight	24V DC ± 5% (Ripple less than 1V) ≤ 150 mA  Housing: SPCC-SD (steel plate)  Terminal block: 2 pole x 1  Terminal block: 5 pole x 1  RJ 45 female Connector x 1  0+50°C			