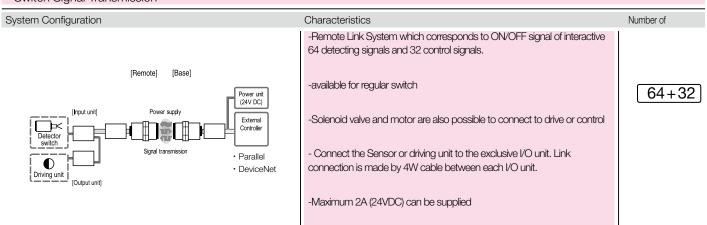


Switch Signal Transmission



	Opera	Operating	Type code				
Drive voltage/current Number of signals	distance	Remote		Base		Page	
	max.	Remote Amplifier	Remote head	Base head	Base Amplifier		
24V DC / 2A	64+32	9mm	RL64T-344	RCH08T-211-PU		RL64E-333	9092

I/O Unit (connect with Remote amplifier)

Unit	Number of Signals (per a unitl)	Type code	Note	Page
Input Unit	8	RLX08-322	max.4	93
Output Unit	4	RLY04-322 □	max.8	93

Type code

 $\square: N \to NPN, P \to PNP$

'__' at the end means cable length(m). Examples are showed below.

Standard cable length: 1m

Base head

RCH08E-211-PU-02

Lcable length(m)
02=2m
03=3m
05=5m

Standard cable length: 2m

Remote Amplifier RL64T-344N-000 L_{N=NPN} P=PNP Base Amplifier
RL64T-333N-000
LN=NPN
P=PNP

Size

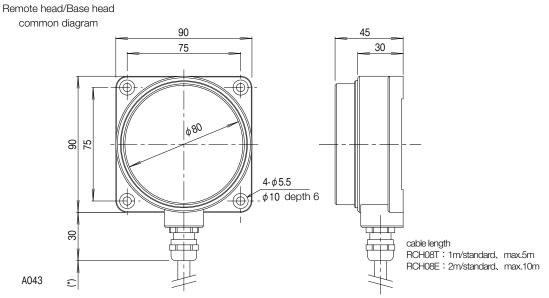
90x90

Operating

3...9mm

distance

Switch Signal Transmission/ Input 64+Output 32



Wiring C023/P.112

Remote head			Base head		
RCH08T-211-PU-01		Type code	RCH08E-211-PU-02		
24V ± 1.5V D	OC	Operational voltage	ge 24V DC ± 5% (incl. ripple)		
max.2A					
39mm	68mm	Load capacity			
±5mm	±3mm	Frequency of operation	n		
≦ 1A	≦ 2A	LED			
0+50°C		Operating Temperatu	ıre 0+50°C		
IP67		Protection class	IP67		
PUR / φ 7.6	, 4x0.75mm ² shielded	Cable	PUR / φ 7.6, 4x0.75mm ² shielded		
Aluminum+alumite treated (metal)		Material Housing	Aluminum+alumite treated (metal)		
ABS + PBT (resin)		Active surface	ABS + PBT (resin)		
		Note			
	24V ± 1.5V D max.2A 39mm ±5mm ≤ 1A 0+50°C IP67 PUR / \$\phi\$ 7.6 Aluminum+al	RCH08T-211-PU-01 24V ± 1.5V DC max.2A 39mm 68mm ±5mm ±3mm ≤ 1A ≤ 2A 0+50°C IP67 PUR / φ 7.6, 4x0.75mm² shielded Aluminum+alumite treated (metal)	RCH08T-211-PU-01Type code $24V \pm 1.5V$ DCOperational voltar Current Consumption $39mm$ $68mm$ Load capacity $\pm 5mm$ $\pm 3mm$ Frequency of operation $\leq 1A$ $\leq 2A$ LED $0+50^{\circ}$ COperating Temperature $IP67$ Protection class $PUR / \phi 7.6$, $4x0.75mm^2$ shieldedCableAluminum+alumite treated (metal)Material Housing Active surface		

Applicable device

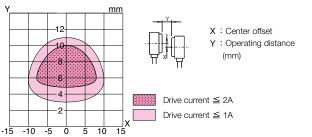
- A Remote can be connected up to 64 detectors and driving units such as solenoid valves. The maximum numbers of control signal for driving units are 32.

Supply voltage	24V DC
Current consumption	≦ 2A
Residual voltage	
Load capacity	

-The total current consumption of connecting switch and driving units must not exceed the value of Drive current.

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

RCH08T-211-PU-__/RCH08E-211-PU-__

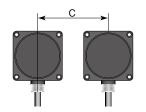


Mounting

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.

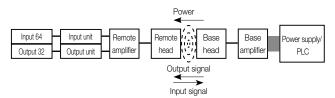
Influence of surrounding metal

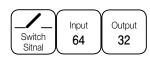




Mutual interference

Type code	A(mm)	B(mm)	C(mm)
RCH08T-211-PU	50	45	300
RCH08E-211-PU	30	45	300

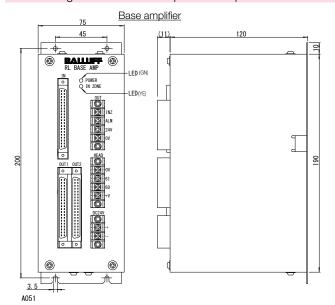


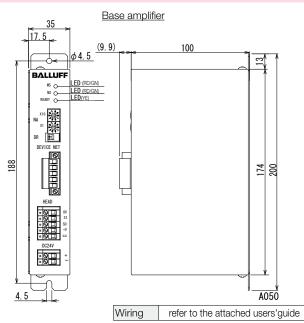






Switch Signal Transmission/Input 64+Output 32





Base Amplifier (parallel I/O)				
Type NPN RL64E-333N-000				
code PNP	RL64E-333P-000			
Applicable remote	BL64T-344 □ -000			
amplifier	RL64T-345 □ -000			
Input logic	NPN (current sink), PNP (current source)			
Input signal	32			
Load capacity	7mA/1Input			
Output logic	NPN (current sink), PNP (current source)			
Output signal	67(data:64, inzone:2,			
	detecting short circuit:1)			
Load capacity	max.20mA/ 1 output type			
Operational voltage	24VDC ± 5%			
Current consumption	≦ 150mA			
Frequency of operation	20Hz			
LED	Power indication(GN)、READY(YE)			
Material	Housing:SPCC-SD(steel plate)			
Connection Power	Terminal block: 2pole x 1			
Head	Terminal block: 4pole x 1			
Input	Square connector: 40P x 1			
Output	Square connector: 40P x 2			
Operating temperature	0+50℃			
Note	connectors are attached			

	Base Amplifier (DeviceNet)			
Type DeviceNet	RL64EA-355DN-000			
code				
A 11 1 1				
Applicable remote	RL64T-344000			
amplifier	RL64T-345 -000			
Function	Remote I/O(Poll)			
Speed	500k/250k/125k Baud			
	Set by Dip SW			
Naud address	0~63			
	Set by rotary SW			
Input signal ¹⁾	64+1 Ready signal (9byte)			
Output signal ²⁾	32(4byte)			
Operational voltage	24VDC ± 5%			
Current consumption	≦ 150mA			
LED	MS:RD/GN,NS:RD/GN,READY: YE			
Material	Housing: SPCC-SD(steel plate)			
Power	Terminal block: 2pole x 1			
Head	Terminal block: 5pole x 1			
DeviceNet	Open connector			
Operating temperature	0+50 °C			
Note				

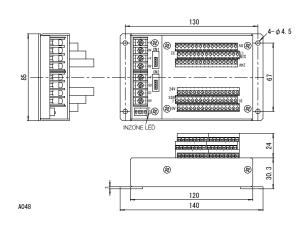
- 1) Output signals from Remote system
- 2) Input signals to Remote system

Products table

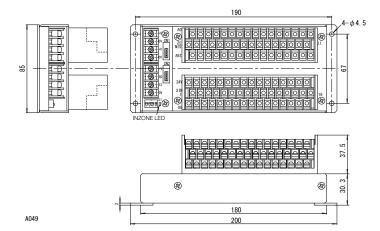
Switch Signal Transmission

Switch Signal Transmission/ Input 64+Output 32

Remote amplifier



Remote amplifier



Wiring	refer to the users' guide

	Remote amplifier (Pin termianl)	Remote amplifier (Ring terminal)
Type code NPN	RL64T-344N-000	RL64T-345N-000
PNP	RL64T-344P-000	RL64T-345P-000
Applicable base amplifier	RL64E-333N-000、RL64E-333P-000	RL64E-333N-000、RL64E-333P-000
	RL64EA-355DN-000	RL64EA-355DN-000
Input logic	NPN or PNP	NPN or PNP
Input signals	32	32
Load capacity	7mA/1Input	7mA/1Input
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 Detector SW	Terminal block: 3pole x 32	Terminal block: 3pole x 32
Remote head	Terminal block: 4pole x 1	Terminal block: 4pole x 1
Link	Connector: e-con , 4P x 2	Connector: e-con , 4P x 2
Operating temperature	0+50°C	0+50℃
Note		

Applicable device

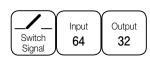
- A Remote can be connected up to 64 detectors and driving units such as solenoid valves. The maximum numbers of control signal for driving units are 32.
- Remote amplifierRL64T-344/345 can connect up to 32 detectors directly.

Supply voltage	24V DC
Total current consumption	≦ 2A
Residual voltage	≦ 6V
Residual current	≦ 1mA

- -Please use the switch which correctly operates under left-had specification.
- -The total current consumption of connecting switch and driving units must not exceed the value of Drive current.

Note

- Prepare the cable, 4 conductors and outer diameter phi1.35 ...1.6mm for link system. Insulation deplacement connector is attached to I/O unit.

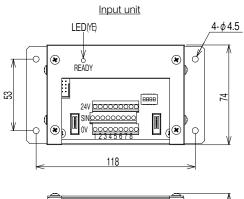


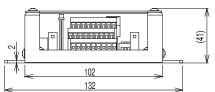
4-φ4.5



Switch Signal Transmission/Input 64+Output 32

A052

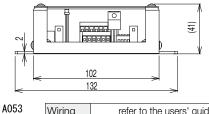




READY * 8888 SOUT 2000000 COM 2000000 12345 S0UT 000000 (**®** 118

Output unit

LED(YE)



53	Wiring	refer to the users' guide

	Input unit	Output unit
Type code NPN	RLX08-322N	RLY04-322N
PNP	RLX08-322P	RLY04-322P
Input logic	NPN or PNP	
Input signals	8	
Load capacity	7mA/1Input	
Output logic		NPN or PNP
Output signals		5 (Data: 4, Data valid : 1)
Load capacity		max.200mA/ 1 output type
Current c onsumption	≦ 40mA	≦ 40mA
Frequency of operation	20Hz	20Hz
LED	READY	READY
Material Housing	SPCC-SD	SPCC-SD
Cover plate	acrylic resin	acrylic resin
Connection Detector SW	Terminal block: 3 x 8 pole	
Cover plate	acrylic resin	acrylic resin
Driving unit		Terminal block: 3 x 4 pole
Link	Connector: e-con, 4P x 2	Connector: e-con 、4P x 2
Operating temperature	0+50°C	0+50℃
Note		

Applicable device

- A Remote can be connected up to 64 detectors and driving units such as solenoid valves. The maximum numbers of control signal for driving units are 32.

Supply voltage	24V DC
Current consumption	≦ 2A
Residual voltage	≦ 6V
Residual current	≤ 1mA

Note

-Prepare the cable, 4 conductors and outer diameter phi1.35 ...1.6mm for link system.

Insulation deplacement connector is attached to I/O unit.

Switch Signal Transmission

