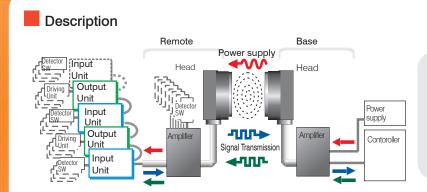


sensors worldwide

Supply Power (24VDC/2A) &

Transmit Signal (64 detection signal + 32 control signal)

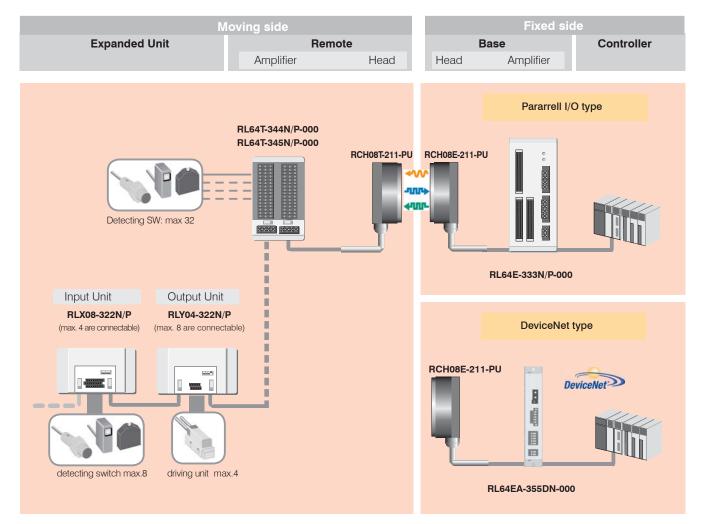




Balluff/Remote system is an original connection system that supplies power and transmits signals inductively through air gap.

Remote Link System designed to operate many detector switches and actuators by constructing link system of input and output.

System configuration and functions



Remote part

Remote Head/ Remote Amplifier

Receives power from the Base Unit and supplies power to connected detection switch or Input/Output unit and transmits Input/Output signals. Up to 32 detection switches can be connected.

Input Unit

Supply power to detection switches and transmits detecting signals to Remote amplifier.

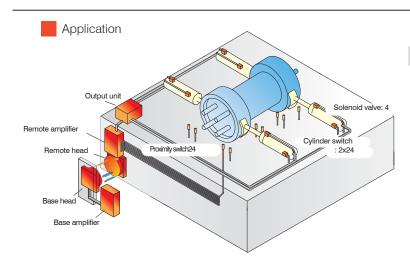
Max. 8 signals can be connected. Up to 4 units per 1 system can link to.

Supp

Supplies power 24VDC/2A to Remote unit without physical contact and transmits max. 64+32 input/output signals and executes input/output data communication with controller.

Output Unit

Operates connected driving units such as solenoid valve or small motor. Max. 4 signals can be connected. Up to 8 units per 1 system can be linked.



On the assembly line

Base part

Base Head/ Base Amplifier

Application

24 proximity switches can confirm the various workpiece positions which are different according to their shapes before 4 clamps operate.

Simultaneously supply 24VDC/2A, and transmit 32 detecting signals (proximity switches +8 sylinder switches) and 4 control signals (solenoidvalve)

Advantage

With using many proximity switches, various shapes of workpieces can be manufactured on one pallet.

Remote Head / Base Head

Transmit signals: 64+32

Remote Head	Base Head	
Transmission distance	H	

Type code Remote part		RCH08T-211-PU-0	11		
	ase part		RCH08E-211-PU-02		
	ase part	•	HOHOUL-ZII-I O-	<i>,</i>	
Housing Re	emote pa	art	L90xW90xH45		
size Ba	ase part		L90xW90xH45		
Demensions 1	No.		L-D001		
Form			90x90		
Transmission of	distance		4 · · · 9mm		
(non-flush)					
Drive Voltage			24VDC +/- 1.5V		
Drive Current*	r		max.2A		
			Transmission	Center	Drive current
			distance	Offset	
		49mm	+/-5mm	=<1A	
		68mm	+/-5mm	=<2A	
Specification ((Base)				
	upply Vol		24VDC +/-5%		
		nsumption	=<4A		
LED		Non			
Specification (Remote and Base)					
Material Case Operating Surface Cable Operating temperature Protection class		Aluminum+Alumite-treated			
		ABS+PBT			
			PUR Phi 7.6 4x0.75mm²/Shield		
			0 · · · +50 deg. C		
		IP67			

^{*} The sum current consumtion of detecting switches and driving units with Remote Amplifier (70mA) + Input Unit (40mA)

Cable length

To order special cable length, replace length in meters at the end of the type code.

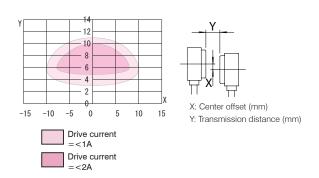
(ex)

RCH08E-211-PU-03 = cable length 3m

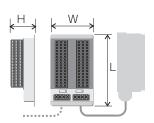
Transmitting area diagram

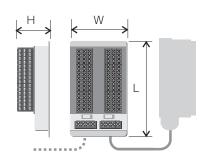
[Supply Voltage : 24V DC]

RCH08_-211-PU-__



⁺ Output Unit (40mA) sholud not excess the drive current.





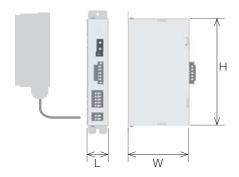
		32 signal input (Pin terminals)	32 signal input (Ring terminals)	
Type Code	NPN	RL64T-344N-000	RL64T-345N-000	
	PNP	RL64T-344P-000	RL64T-345P-000	
Applicable Bas	e Amplifier	RL64E-333000 , RL64EA-355DN-000	RL64E-333000 , RL64EA-355DN-000	
Housing size		Pin terminals: L140 x W85 x H54.3	Ring terminals: L200 x W85 x H67.8	
Demensions No.		Pin terminals: L-D003	Ring terminals: L-D004	
Specification				
Current consumption		=<70mA	=<70mA	
LED		READY(Yellow)	READY (Yellow)	
Material	Case	SPCC-CD	SPCC-CD	
Connection	Head	Terminal block: 4P x 2	Terminal block: 4P x 2	
	Link*	Connector: e-con、4Px2	Connector: e-con, 4Px2	
	Detecting switch	Terminal block: 3P x 32	Terminal block: 3P x 32	
Operating temperature		0 +50 degree C	0 +50 degree C	

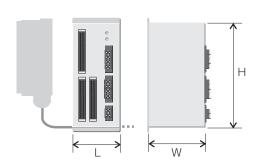
^{* 4} conductor insulation displacement connectors are used to connect the Remote Link Input/ Output unis. Outside diameter ofthe conductor jacket should be between 1.35 and 1.6mm.





Base Amplifier



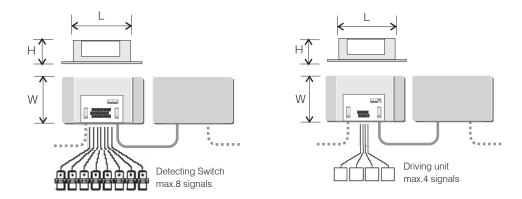


DeviceNet				
Type Code		RL64EA-355DN-000		
Housing si	ize	L35xW100xH174		
Dimension	No.	L-D009		
Applicable Remote Amplifier		RL64T-344000 RL64T-345000		
Input/ Out	put			
Communication	n Function	Remote I/O (Poll)		
Baud rate		500k/250k/125k Baud		
		(set by dip SW)		
Node addr	ress	063 (set by rotary SW)		
Input		64 signals + Ready signal 1 (9byte)		
Output		32 signals (4byte)		
Specificati				
Supply Vol		24VDC +/- 5%		
Current Cons	sumption	=<150mA		
LED		MS: Red/Green, NS: Red/Green, READY: Yellow		
Case Material		SPCC-SD		
Connection Power Terminal block:		Terminal block: 2P x 1		
	Head	Terminal block: 5Px 1		
	DeviceNet	Open connector *		
Operating temperature		0+50 degree C		

Parallel I/C)		
Type Code	NPN	RL64E-333N-000	
,,	PNP	RL64E-333P-000	
	Housing size		
	Housing size Dimension No.	L-D006	
	Dirichsion 140.		
Applicable		RL64T-344000	
Remote A	mplifier	RL64T-345000	
Input/ Out	nut		
Input	Input signal	NPN (Current sink)	
(Control	1 0	or PNP (Current source)	
signal)	Count	32	
	Load current	7 m A / 1input	
Output	Output signal	NPN (Current sink)	
(Detect		or PNP (Current source)	
signal)	Count	67(data: 64, inzone: 2 short circuit detecting: 1)	
	Load current	max.20 m A / 1output	
O:t:+:			
Specificati Supply Vo		24VDC +/- 5%	
	ensumption	=<150mA	
	of operation	20Hz	
LED		POWER SUPPLY(Green)、READY(Yellow)	
Case Material		SPCC-SD	
Connection	Power	Terminal block: 2Px 1	
	Head	Terminal block: 4P x 2	
	Input *	Square connector: 40P x 1	
	Output *	Square connector: 40P x 2	
Operating temperature		0+50 degree C	

 $[\]ensuremath{\bigstar}$ The connector is attached in Base Amplifier package.

Input/ Output Unit



		Input Unit	Output Unit
Туре	Input Unit NPN	RLX08-322N	
Number	Input Unit PNP	RLX08-322P	
	Output Unit NPN		RLY04-322N
	Output Unit PNP		RLY04-322P
	Housing size	L132xD74xH38.5	L132xD74xH38.5
	Dimensions No.	L-D007	L-D008
Input/Ou	tput		
Input	Logic	NPN or PNP	-
·	Signals	8 signals	
	Load current	7mA per 1 input	
Output	Logic	_	NPN or PNP
	Signals	_	5 signals (data 4+data valid1)
	Load current	_	max.200mA per 1 output
Specifica	ation		
	Current consumption	=<40mA	=<40mA
	Frequency of peration	20Hz	20Hz
	LED	Ready (Yellow)	Ready (Yellow)
	Material Case	SPCC-CD	SPCC-CD
	Connection Detecting Switch	Terminal block : 3P x 8	
	Driving unit	_	Terminal block : 3P x 4
	Link*	Connector: e-con, 4Px2	Connector: e-con, 4Px2
	Operating temperature	0+50 deg. C	0+50 deg. C

^{* 4} conductor insulation displacement connectors are used to connect the Remote Link Input/ Output unis. Outside diameter ofthe conductor jacket should be between 1.35 and 1.6mm.

Dimensions

Remote Head/ Base Head

RCH08T-211-PU-01 RCH08E-211-PU-02

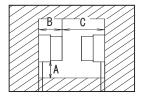
No. L-D001

90 75 30 4-phi5. 5 phi 10 depth6

Notes for installation

Installation in metal

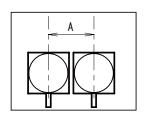
When the Heads are mounted in metal, keep minimum spacing as described below in order to avoicd influence of surrounding metal.



			(mm)
Туре	А	В	С
RCH08T	50	45	_
RCH08E	30	45	45

Mutual intererance of the Head

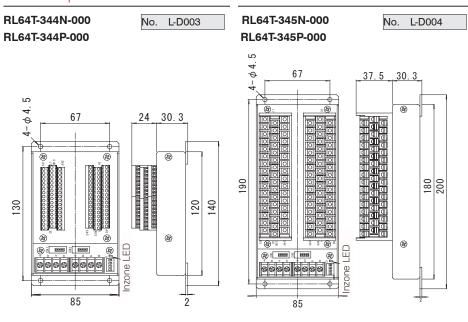
In order to prevent mutual interference between parallel-mounted sensors, keep minimum spacing as described below.



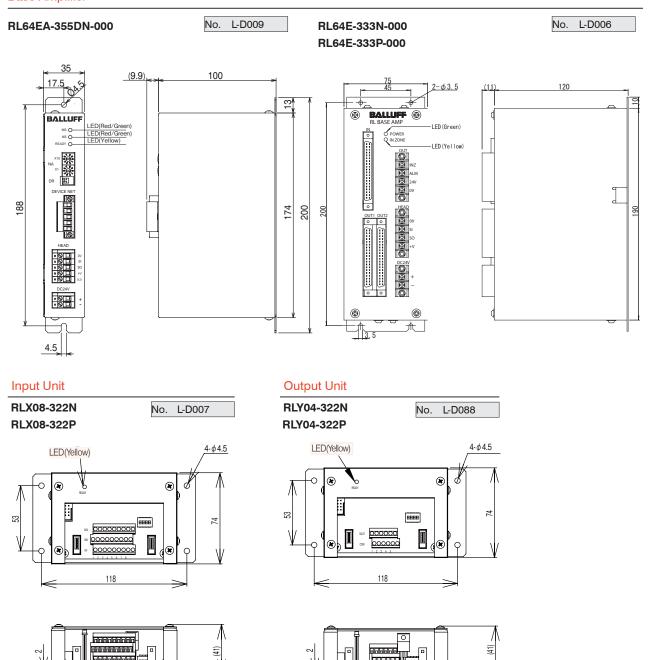
	(mm)
Туре	А
RCH08 to	300
RCH08	300

Remote Amplifier

Cable (mm)/ Material



Base Amplifier



102

132

Specification is a subjeft to change without notice.

NIHON BALLUFF Co., Ltd.

102

132

274 Gomyo Tokigawa-machi Hiki-gun Saitama JAPAN

http://www.balluff.co.jp e-mail:balluff@balluff.co.jp

