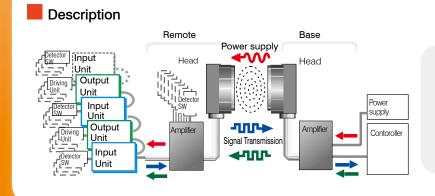


Supply Power (24VDC/2A) &

Transmit Signal (64 detection signal + 32 control signal)

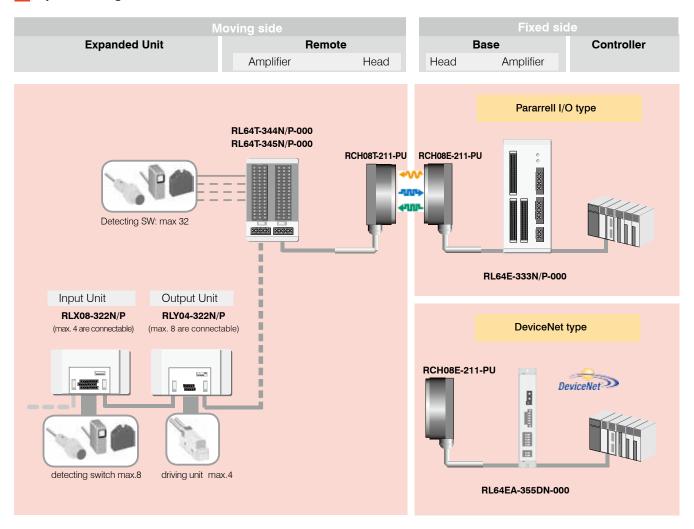




Balluff/Remote system is an original connection system that supplies power and transmits signals inductively through air gap.

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.

Base part

Base Head/ Base Amplifier

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.

Application Output unit Remote amplifier Remote head Base head Base amplifier

On the assembly line

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

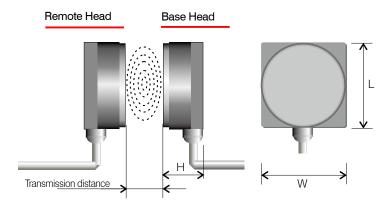
4 control signals (solenoidvalve)

Advantage

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

Remote Head / Base Head

Transmit signals: 64+32



Type code Remote	part	RCH08T-211-PU-0)1		
Base pa	·.	RCH08E-211-PU-02			
Housing Remote	part	L90xW90xH45			
size Base par	rt	L90xW90xH45			
Demensions No.		L-D001			
Form		90x90			
Transmission distance		4···9mm			
(non-flush)					
Drive Voltage		24VDC +/- 1.5V			
Drive Current*		max.2A	max.2A		
		Transmission	Center	Drive current	
		distance	Offset		
		49mm	+/-5mm	=<1A	
		68mm	+/-3mm	=<2A	
Specification (Base)					
Supply V		24VDC +/-5%			
	consumption	=<4A			
LED		Non			
Specification (Remote	e and Base)				
Material Case		Aluminum+Alumite-treated			
	Operating Surface	ABS+PBT			
Cable		PUR Phi 7.6 4x0.75mm ² /Shield			
Operating temperature		0···+50 deg. C			
Protection class		IP67			

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

Cable length

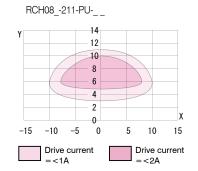
To order special cable length, replace length in meters at the end of the type code.

(ex)

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

Transmitting area diagram

[Supply Voltage: 24V DC]

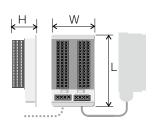


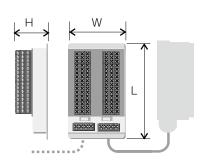


X: Center offset (mm) Y: Transmission distance (mm)

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

Remote Amplifier





		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 Base	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 N o .		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, 4P x 2	Connector: e-con, 4P x 2	
	Detecting switch	Terminal block: 3P x 32	Terminal block: 3P x 32	
Operating temperature		0 +50 degree C	0 +50 degree C	

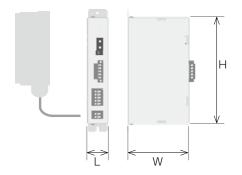
* 4 conductor insulation displacement connectors are used to connect the Remote Link Input/ Output unis. Outside diameter ofthe conductor jacket should be between 1.35 and 1.6mm.

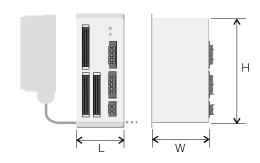




Base Amplifier

Base Amplifier





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

Parallel I/O				
Type Code NPN		RL64E-333N-000		
	PNP	RL64E-333P-000		
	Housing size	L75xW120xH190		
	Dimension No.	L-D006		
Applicable Remote Amplifier		RL64T-344000 RL64T-345000		
Input/ Outp	out			
Input (Control	Input signal	NPN (Current sink) or PNP (Current source)		
signal)	Count	32		
	Load current	7 m A / 1input		
Output (Detect signal)	Output signal	NPN (Current sink) or PNP (Current source)		
	Count	67(data: 64, inzone: 2 short circuit detecting: 1)		
	Load current	max.20 m A / 1output		
Specification	on .			
Supply Voltage		24VDC +/- 5%		
Current consumption		=<150mA		
Frequency 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 t	emperature	0+50 degree C		

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

Input/ Output Unit

Type

Number

Input/Output

Input

Output

Specification

Input Unit

Input Unit

Output Unit

Output Unit

Logic Signals

Logic Signals

LED

Material

Current consumption Frequency of peration

Case

Connection Detecting Switch Driving unit

Link*

Operating temperature

=<40mA

SPCC-CD

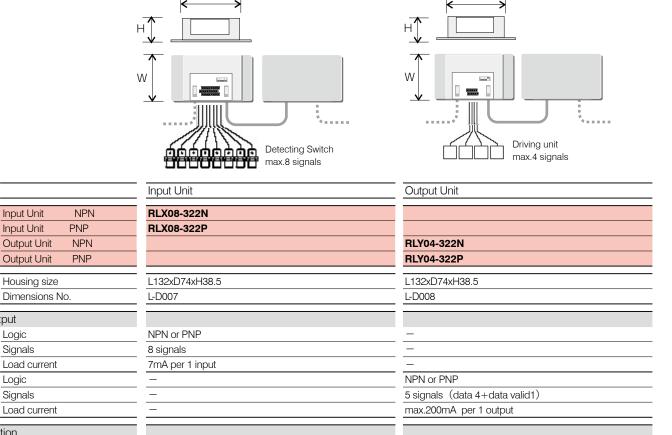
Ready (Yellow)

0...+50 deg. C

Terminal block: 3P x 8

Connector: e-con, 4Px2

20Hz



=<40mA

SPCC-CD

Ready (Yellow)

0...+50 deg. C

Terminal block: 3P x 4

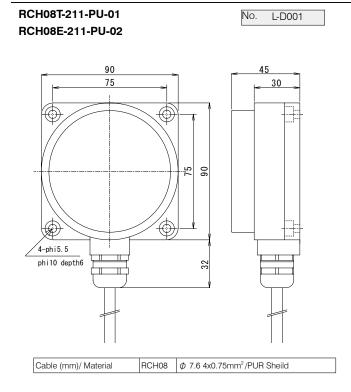
Connector: e-con, 4Px2

20Hz

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

Dimensions

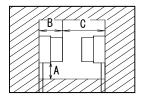
Remote Head/ Base Head



Notes for installation

Installation in metal

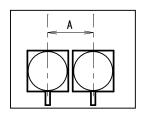
When the Heads are mounted in metal, keep minimum spacing as described below in order to avoicd influence of surrounding metal.



			(111111)
Туре	Α	В	С
RCH08T	50	45	_
RCH08E	30	45	45

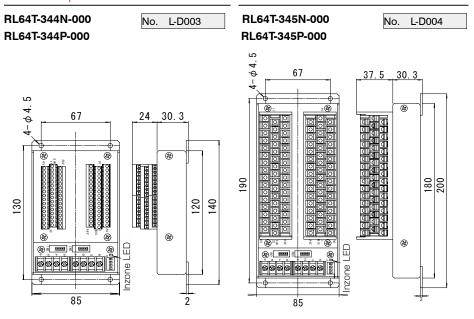
Mutual intererance of the Head

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



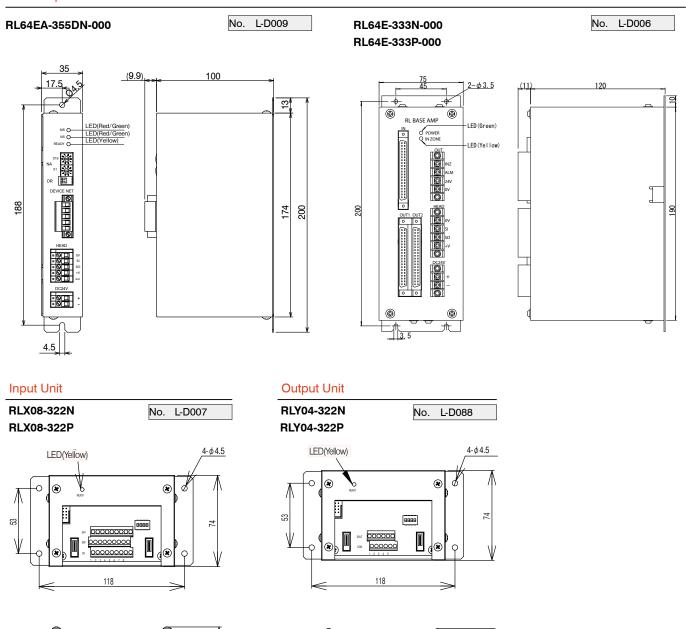
	(mm)
Туре	Α
RCH08 to RCH08	300
1101100	

Remote Amplifier



Dimensions

Base Amplifier



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Erlanger, KY 41018

E-mail: b-plus-usa@b-plus-kk.com

http://www.b-plus-kk.com

*Specification is subject to change without notice.