24VDC/2A Power supply and
64+32 Signal transmission inductively

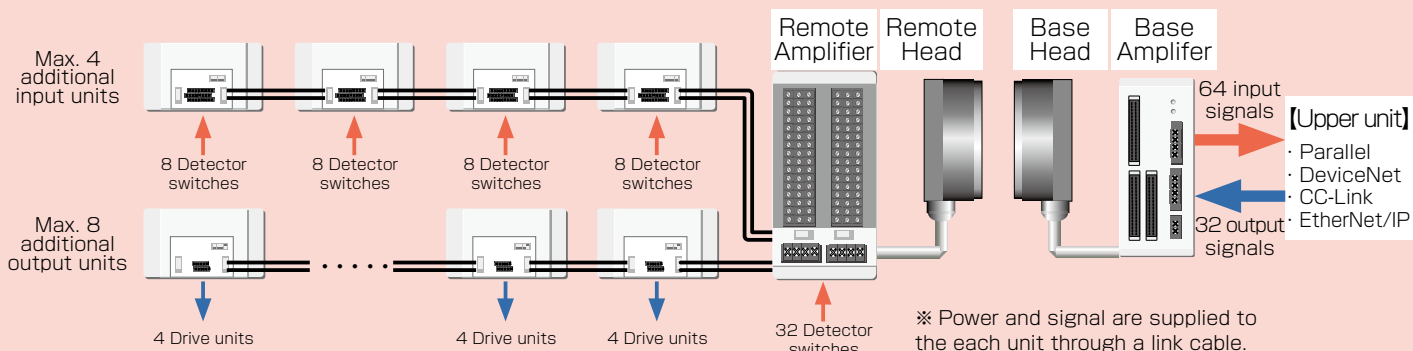# Selectable interface！！
Remote system for a variety of fieldbus

Power supply
24V/2A

■ With link connection of extension units,
Max 4 input units x 8 detector switches
Max 8 output units x 4 drive units
are connectable

64 signals

32 signals

Remote head

Base head

Base amplifier

Remote amplifier

Parallel connection

DeviceNet

CC-Link

EtherNet/IP

Output unit

Input unit

■ Remote system Connection example : 64 detector switches and 32 drive units on Remote part (moving side)

| Remote Amplifier | Remote Head | Base Head | Base Amplifer |

Max. 4 additional input units

8 Detector switches | 8 Detector switches | 8 Detector switches | 8 Detector switches

Max. 8 additional output units

4 Drive units | 4 Drive units | 4 Drive units

32 Detector switches

64 input signals

32 output signals

【Upper unit】
・Parallel
・DeviceNet
・CC-Link
・EtherNet/IP

※ Power and signal are supplied to the each unit through a link cable.

Product news

REMOTE SYSTEM
Configuration diagram

Remote head · · · · · Facing to base head, it transmits both 24V DC / 2A and I/O signals by no contact

Remote amplifier · · · Supply power to connected detector switches and I/O signals. Max. 32 detector swtiches can be connected

Input unit · · · · · · · Supply power to connected detector switches and transmit detected signals to remote amplifier. Max. 8 detector swtiches can be connected
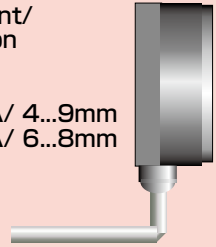1 system can link up to 4 units

Output unit · · · · · · Run the drive unit of connected solenoid valves or small motors. Max. 4 drive units can be connected.
1 system can link up to 8 units

Remote head

RCH08T-211-PU-_ _

Drive current/ transmission distance

1A/ 4...9mm
2A/ 6...8mm

Pow
24VD

Sig

Remote amplifier

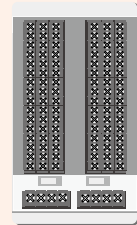< Pin terminal type >
NPN : RL64T-344N-000
PNP : RL64T-344P-000

< Ring terminal type >
NPN : RL64T-345N-000
PNP : RL64T-345P-000
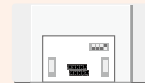
Input unit

NPN : RLX08-322N
PNP : RLX08-322P

(Max. 4 additional units)

Output unit

NPN : RLY04-322N
PNP : RLY04-322P

(Max. 8 additional units)

Sensors

32 sensors are connectable to one Remote Amplifier

Applicable Detector sensors	
Supply voltage	24 VDC
Load capacity	7 mA for operation
Residual voltage	$\leqq$ 6 V
Resiual current	$\leqq$ 1 mA

Sensors

8 sensors are connectable to one Input Unit.

Applicable Detector sensors	
Supply voltage	24 VDC
Load capacity	7 mA for operation
Residual voltage	$\leqq$ 6 V
Resiual current	$\leqq$ 1 mA

Actuator

4 actuator are connectable to one Output Unit.

Applicable Actuators	
Output logic	NPN or PNP
Output	Open collector
Load capacity	max.200 mA/ch
Residual voltage	$\leqq$ 2.5 V
Resiual current	$\leqq$ 0.08 mA

power
DC/2A

nal

Base Head

RCH08E-211-PU-_ _
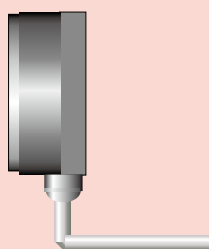
Base Head............... supplies power 24V DC/2A to Remote Head inductively
at the same time transmits and receives signals.

Base Amplifier......... connects to the host computer and the external power supply.
It communicates with the host by following interface.

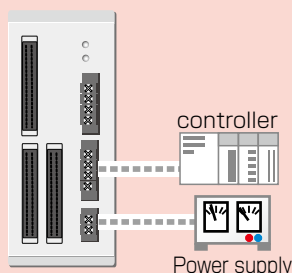|	
Parallel interface :	RL64E-333N-000(NPN)
	RL64E-333P-000(PNP)
DeviceNet interface :	RL64EA-355DN-000
CC-Link interface :	RL64E-366CL-000
EtherNet/IP interface :	RL64E-366EI-000

Base Amplifier

Parallel interface
NPN : RL64E-333N-000
PNP : RL64E-333P-000

RL64E-333N/P communicates
with Host computer input 32 and
output 64 signals by parallel
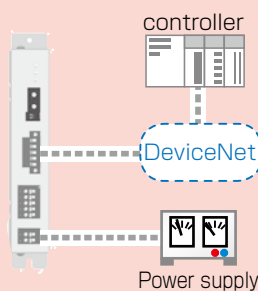interface.

controller

Power supply

DeviceNet interface
RL64EA-355DN-000

RL64EA-355DN communicates
with master unit or slave unit of
DeviceNet.
This makes it possible to control
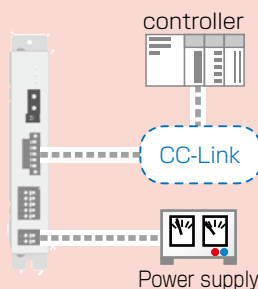machineries on the moving part by
DeviceNet.

controller

DeviceNet

Power supply

DeviceNet

CC-Link interface
RL64E-366CL-000

RL64E-366CL communicates with
Master station or Local station of
CC-Link directly.
This makes it possible to control
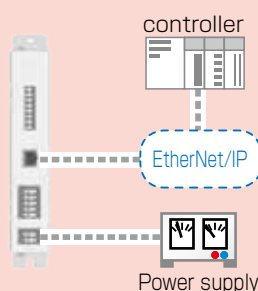machineries on the moving part by
CC-Link.

controller

CC-Link

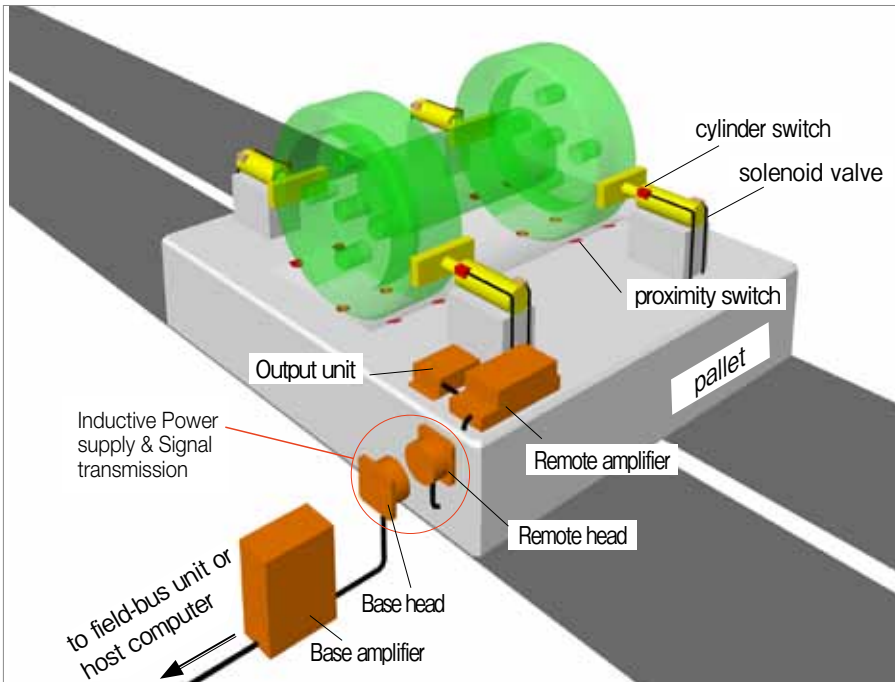Power supply

CC-Link

Ethernet/IP interface
RL64E-366EI-000

■ EtherNet/IP
RL64E-366EI communicates with
EtherNet/IP.
This makes it possible to control
machineries on the moving part by
EtherNet/IP.

controller

EtherNet/IP

Power supply

Ethernet/IP

Identifying a workpiece, starting a solenoid valve and monitoring position of cylinder

cylinder switch

solenoid valve

proximity switch

Output unit

pallet

Inductive Power supply & Signal transmission

Remote amplifier

Remote head

Base head
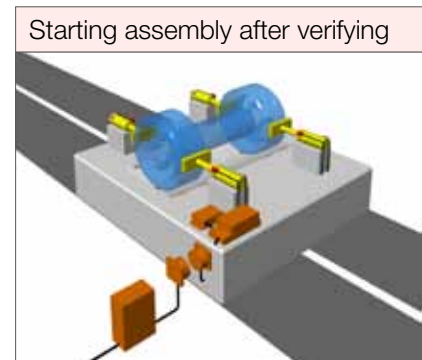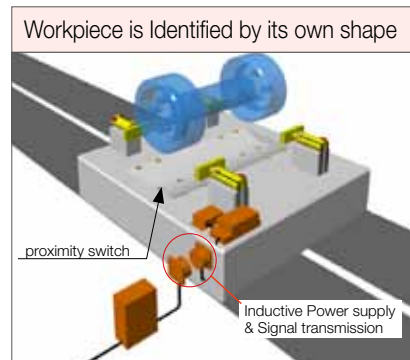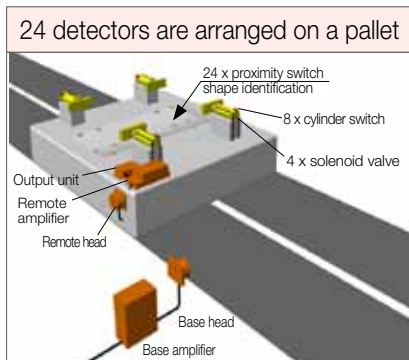
to field-bus unit or host computer

Base amplifier

Application

The assembling work is performed identifying the workpieces by its own shape. Remote System supplis power to 24 proximity switches, 8 cylinder switches and 4 solenoid valve. Remote system transmits their detected signals and start signals at the same time.

Advantage

Identification, fixation and sitting confirmation of the workpiece are automated, and preparation time was reduced.

24 detectors are arranged on a pallet

24 x proximity switch shape identification

8 x cylinder switch

4 x solenoid valve

Output unit

Remote amplifier

Remote head

Base head

Base amplifier

Workpiece is Identified by its own shape

proximity switch

Inductive Power supply & Signal transmission

Starting assembly after verifying

*Specification is subject to change without notice.

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