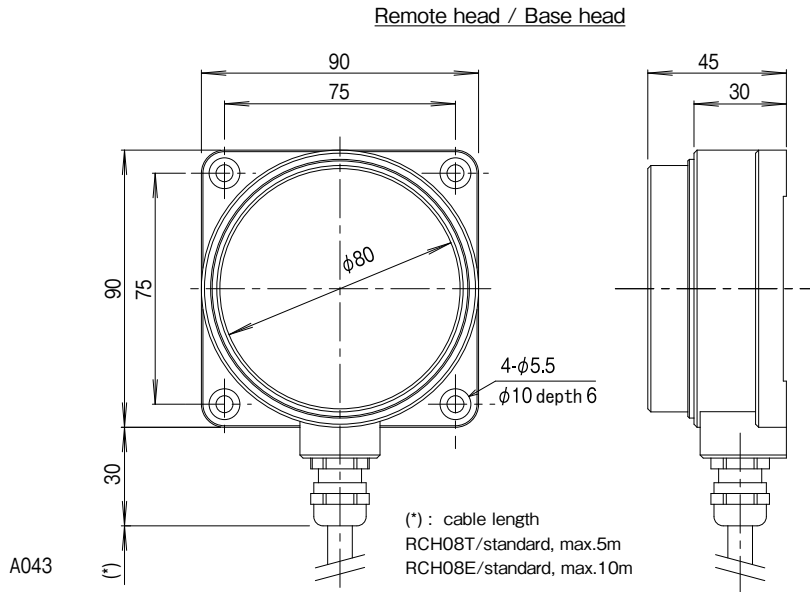


8+8 switch signal and 64+32 switch signal / Size : 90 x 90

Operating distance
4...9mm

Remote head and Base head shared dimension



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

Wiring 8+8	C020/P.122
Wiring 64+32	C023/P.123

Remote / Remote head	
Type code	RCH08T-211-PU-01
Applicable Remote amplifier	8+8 RC08T-011_-000 64+32 RL64T-344_-000, RL64T-345_-000
Drive voltage	24V ± 1.5V DC
Drive current	max.2A
Operating distance	4...9mm 6...8mm
Center offset	± 5mm ± 3mm
Drive current	≤ 1A ≤ 2A
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / Ø7.8, 2x1.25mm ² +2x0.2mm ² 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
Remarks	

BaseBase head	
Type Code	RCH08E-211-PU-02
Applicable Base amplifier	8+8 RC08E-011_-000 64+32 RL64E-333_-000, RL64EA-355DN-000, RL64E-366CL-000, RL64E-366EI-000
Operational voltage	24V DC ± 5% (incl. ripple)
Current consumption	≤ 4A
Load current	---
Frequency of operation	---
LED	---
Operating temperature	0...+50°C
Protection class	IP67
Cable	PUR / Ø7.8, 2x1.25mm ² +2x0.2mm ² 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	

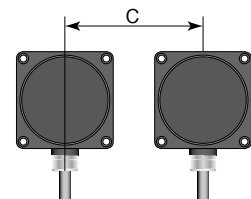
The Remote head in 8+8 signal transmission type can not work with the Base head in 64+32 signal transmission type, and vice versa, though these heads are shared in both transmission type.

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

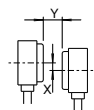
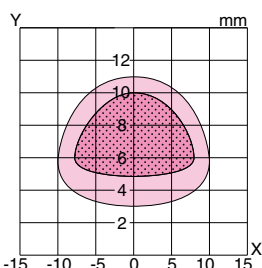
Parallel installation



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

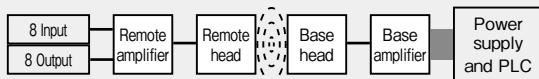
Typical Transmitting Diagram (Supply voltage at 24V/non-flush mount)

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



X : Offset (mm)
Y : Operating distance (mm)

Drive current ≤ 2A
Drive current ≤ 1A



RCH08T
RCH08E

RC08T
RC08E

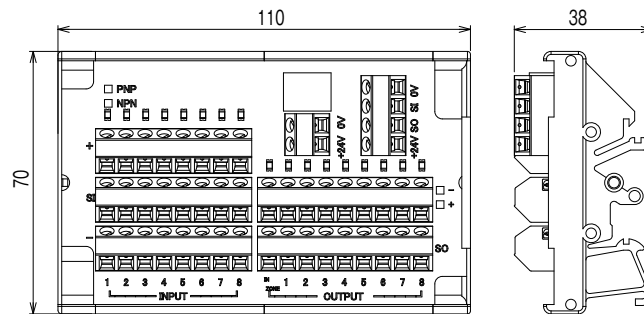


signal

8+8 switch signal / Size : 110x70

Remote amplifier / Base amplifier

Remote amplifier and Base amplifier shared dimension



A044a

Wiring C020/P.122

Remote amplifier		
Type	NPN	RC08T-011N-000
Code	PNP	RC08T-011P-000
Applicable Remote head	RCH08T-211-PU	
Operational voltage	24V DC \pm 10% (from Remote head)	
Current consumption	\leq 150mA	
Input ¹⁾	No. of signal	8 (SI1...8)
	Input logic	NPN or PNP
	Load current	7 mA per input
Output ²⁾	No. of signal	8 (SO1...8) + 1 (InZone)
	Output logic	NPN or PNP
	Load current	max. 300mA per output
	Frequency of operation	100Hz
LED	input and output signal, InZone	
Operating temperature	0...+50°C	
Protection class	IP67	
Mounting	DIN rail 32/35mm	
Material	Body	Nylon
Weight	130 g	
Remarks		

Base amplifier		
Type	NPN	RC08E-011N-000
Code	PNP	RC08E-011P-000
Applicable Base head	RCH08E-211-PU	
Operational voltage	24V DC \pm 10% (incl. ripple)	
Current consumption	\leq 150mA	
Input ³⁾	No. of signal	8 (SI1...8)
	Input logic	NPN or PNP
	Load current	7 mA per input
Output ⁴⁾	No. of signal	8 (SO1...8) + 1 (InZone)
	Output logic	NPN or PNP
	Load current	max. 300mA per output
	Frequency of operation	100Hz
LED	input and output signal, InZone	
Operating temperature	0...+50°C	
Protection class	IP67	
Mounting	DIN rail 32/35mm	
Material	Body	Nylon
Weight	130 g	
Remarks		

Applicable sensor and actuator

- Remote amplifier can connect up to 8 sensors and 8 actuators.
- The total current consumption of Remote amplifier, sensors and actuators must not exceed 2A the drive current which is supplied by the Remote head.

Supply voltage	24V DC
Total current consumption	\leq 2A
Residual voltage	---
Load current	---

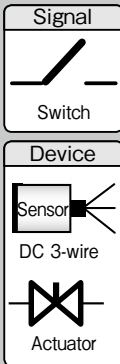
Base amplifier with Enable signal

The Base amplifier with an enable signal is also available. It stops the output of detection signals from Base amplifier to controller and control signals from Remote amplifier to actuators.

Enable signal type : RC08EA-011N-000
RC08EA-011P-000

Since the input signal No. 8 is assigned for Enable signal, the usable control signal from the controller is up to 7.

- 1) Input from sensor to Remote amplifier
- 2) Output from Remote amplifier to actuators
- 3) Input from the controller to Base amplifier
- 4) Output from Base amplifier to the controller



Remote Coupler

4+4 Switch Signal

8+8 Switch Signal

64+32 Switch Signal

RS-232C

CC-Link

DeviceNet

Exclusive Sensor

Wiring