

# Change both the IO-Link signal and Power supply to a wireless!!



- Up to 48W electric power can be sent.
- Transmission speed can be 38.4kbps!
- Communications distance 3...5mm, axis gap 4mm
- The installation to a rotator is possible as well.
- Strong in water, mine and dust! Protection class IP67



## Implementation of the wireless connector!

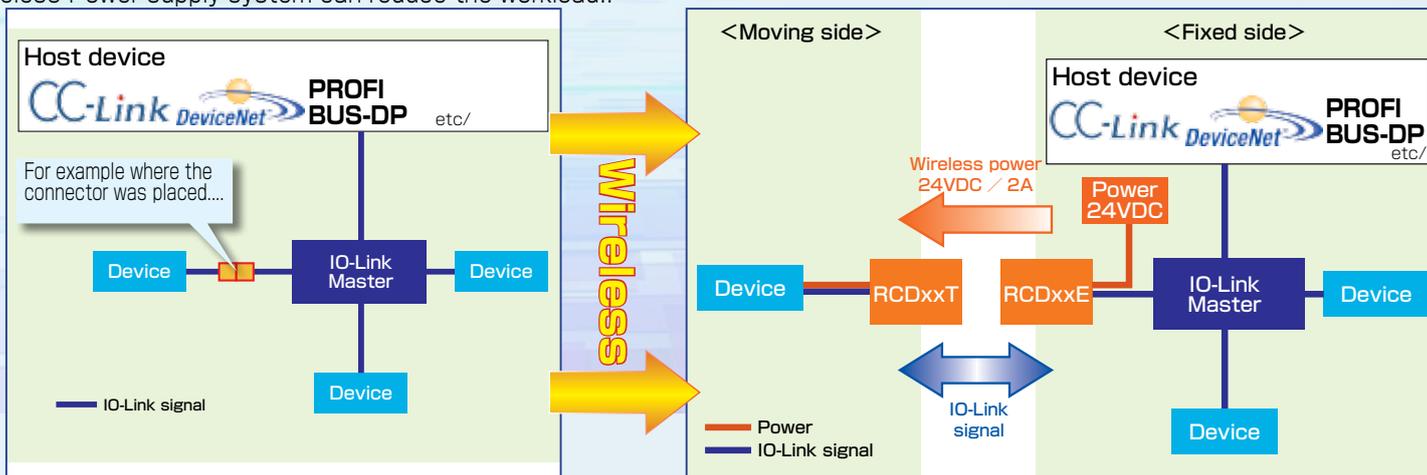
### Construction of the movable network

Wire-saving

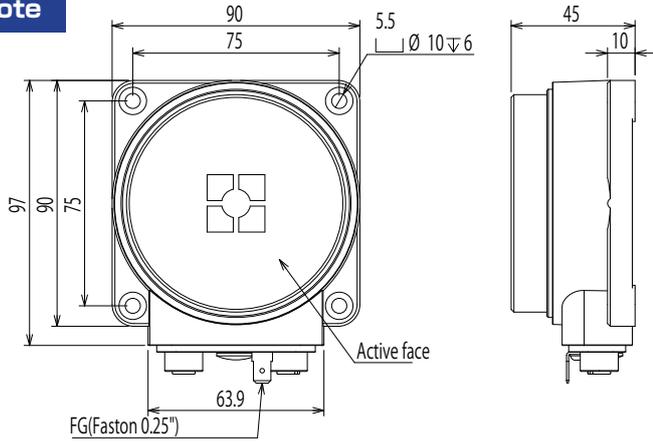
Reducing the man-hours

Reducing of maintenance costs.

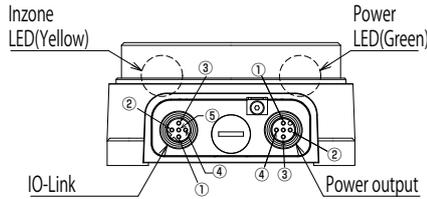
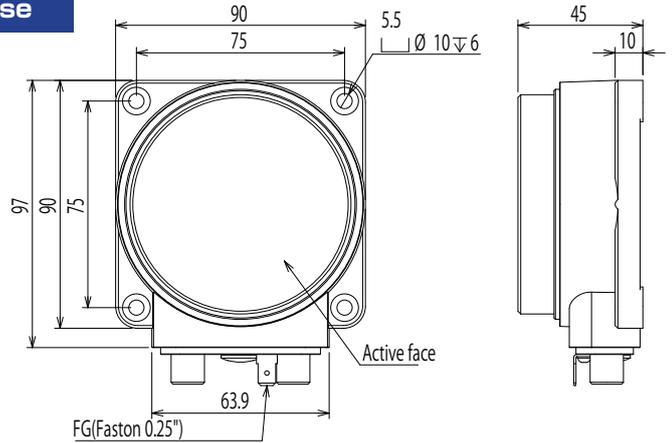
Only needs to face the heads to each other. No need to put the connectors on and off.  
 Wireless Power supply system can reduce the workload!!



## Remote

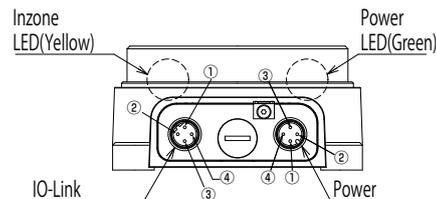


## Base



Pin	Signal (5pin)	Power (4pin)
1	L+	+24V
2	unused	unused
3	L-	0V
4	C/Q	unused
5	unused	-

Please do not connect anything to an unused pin.



Pin	Signal (4pin)	Power (4pin)
1	L+	+24V
2	unused	unused
3	L-	0V
4	C/Q	unused

Please do not connect anything to an unused pin.

Type code	RCD55T-211-IOC
Drive voltage	24V ± 1.5V DC
Drive current	≤ 2A
Operating distance	3...5mm
Center offset	± 4mm
Operating temperature	0...+50°C
Storage temperature	-25...+70°C
Operating temperature	35...90%RH
Storage temperature	35...90%RH
Protection class	IP 67
Connector for connection	Signal: M12 / 5 pin female A Power: M12 / 5 pin female A
Material Housing	Aluminum + alumite processing (metal part)
Active face	PA12 (Resin)
Remark	

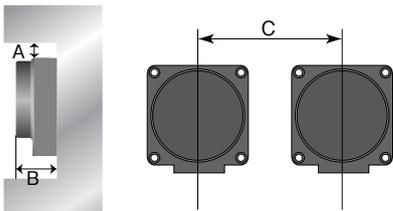
- Please set the cable head considering the total extension of the entire network.
- Please prepare your cable and connectors.
- Please ground with a tab terminal (FG) and screw for case installation.

Type code	RCD55E-211-IOC
Power supply	24V DC ± 5% (incl. ripple)
Current consumption	≤ 3.2A
Signal transmission	IO-Link
Baud rate	38.4kbps
SIO mode	unsupported
port type	class A
Operating temperature	0...+50°C
Storage temperature	-25...+70°C
Operating temperature	35...90%RH
Storage temperature	35...90%RH
Protection class	IP 67
Connector for connection	Signal: M12 / 4 pin male A Power: M12 / 4 pin male A
Material Housing	Aluminum + alumite processing (metal part)
Active face	PA12 (Resin)
Remark	

## installation condition

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.

- Surround Metal
- Parallel Setting



Type code	A	B	C
RCD55T-211-IOC	50	45	300
RCD55E-211-IOC			

Unit:mm

- It is recommended to install RCD55 in metal in order to reduce the influence of self-heating.
- When the resin (ABS or ABS+PTB) is used to the case or the transmission surface, please be sure to avoid organic solvent or liquid containing them to splash over.
- Please avoid facing the base part with metal continuously to avoid metal overheating or damage of the components.
- When the unit keeps to be using under out-of specification distance/center offset/overload status for long time, it may be damaged by overheating.

Wireless Power Supply by  
**B & PLUS K.K.**

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\* Infor may change the mention contents such as specifications without a notice.  
Thank you for understanding