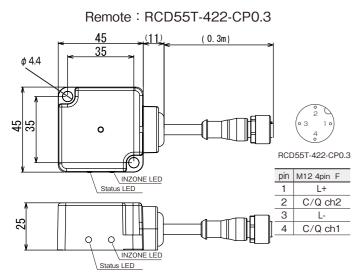
Remote System User's Guide

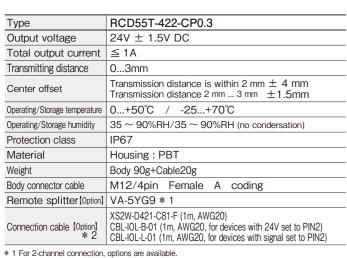
Remote Coupler System IO-Link date transmission/compact type				
Remote	: RCD55T-422-CP0.3			
Base	: RCD55E-422-CP0.3			

Safety Considerations

Please read carefully before using and full attention to Safety Considerations. (See the attached T318501)

Specification

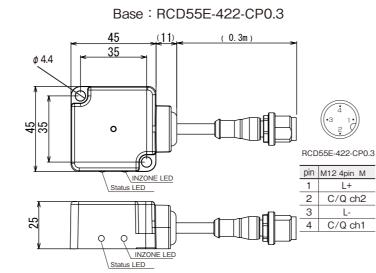




* 2 The signal of ch 2 is assigned to pin 2 of this system. For chosing the applicable cable, please refer to "connection" on the next page if you connect only 1 ch connecting an IO-Link device with power or signal assigned to pin 2.

* 3 This means the time since the timing when a Remote part and a Base part are energized within the transmission area until the timing when the wireless signal transmission starts. It doesn't mean the time until the system as IO-Link established.
* 4 Metal protection is a function of metal heat prevention when metal opposed. Since it is not guaranteed to operate with all metals, please do not deliberately confront the metal against the communication surface.

* 5 According to the current consumption of the selected IO-Link device, options are available.



[Function of each Component]

by non-contact.

Remote : A unit that is mounted on the moving side.

It communicates IO-Link data with a Base and supplies

power to connected each device. It is possible to

Base : A unit that is mounted on the fixed side. It communicates

IO-Link data with a Remote and supplies power

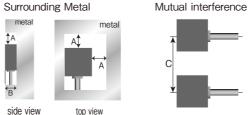
communicate IO-Link signals of up to 2 ch.

Туре	RCD55E-422-CP0.3			
Supply voltage	24V DC ± 5 % (include ripple)			
Current active	Max 1.4 A (with 1A drive)			
consumption static	Max 0.1 A (when not facing)			
Transmission signal	IO-Link data (not adaptable to SIO mode)			
Transmission speed	COM2 (38.4 Kbps)			
Start-up time	≤ 1 sec * 3			
Data delay time	≦ 100 μ s			
Operating/Storage temperature	0+50°C / -25+70°C			
Operating/Storage humidity	$35 \sim 90\%$ RH/ $35 \sim 90\%$ RH (no condersation)			
Protection class	IP67			
Protection circuit	Reverse connection protection, overtemperature protection, overcurrent protection, overheationg protection when facing metal * 4			
Material	Housing : PBT			
Weight	Body 90g+Cable20g			
Body connector cable	M12 / 4 pin male A coding			
Power connection cable [Option]	XS2F-D421-DC0-F (2m, AWG20) * 5			
Power splitter [Option]	VA-4YG-5B * 5			
Base splitter [Option]	VA-5YG-8 * 1			
Cable connector [Option]	XS2W-D421-D81-F (2m, AWG20)			

Mutual Interference

In order to avoid influence of surrounding metal and mutual interference, keep the minimum distance as described below. Keep the distance between the product and the human body at least 20 cm to minimize the effect of electromagnetic waves on the human body.

Tightening torque at installation → 1.5 N · m



side view

* Besides the back side, only one side can be in contact with the metal.

Type number	A(mm)	B(mm)	C(mm)
RCD55T-422-CP0.3	30	25	250
RCD55E-422-CP0.3	30	20	230

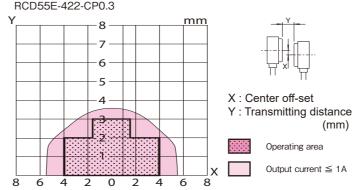
LED indication

LED	Color	LED state	Blinking cycle	pattern	State
Status LED	Green	ON 🔘	—	-	The power supply is corr
Remote&Base part	Green	OFF 🔵	—	—	Power is not supplied.
	Green	Blink -Ò́-	1.4sec/0.1sec	Extinction is long	Temperature abnormality
Status LED	Green	Blink 🔆	1.4560/0.1560	Long lighting	Over current in oscillator
Base part	Green	Blink -Ò́-	0.55 sec/0.05sec	Extinction is long	The operating voltage is
	Green	Blink -Ò́-	0.55 Sec/ 0.05Sec	Long lighting	Low operating voltage.
INZONE LED	Orange		—	—	Establish communicatior
Remote&Base part	Orange	Blink -Ò́-	1sec/1sec	—	There is no communication from the conne

Transmitting Area Diagram (Non-flush mounted)

[Example : Supply voltage at 24V DC]

RCD55T-422-CP0.3

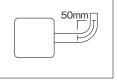


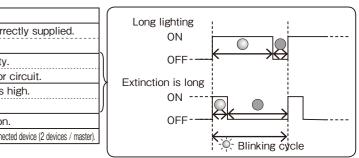
Rated operating distance distance Within 2 mm Shift axis [±4mm] distance 2mm...3mm Shift axis [±1.5mm]

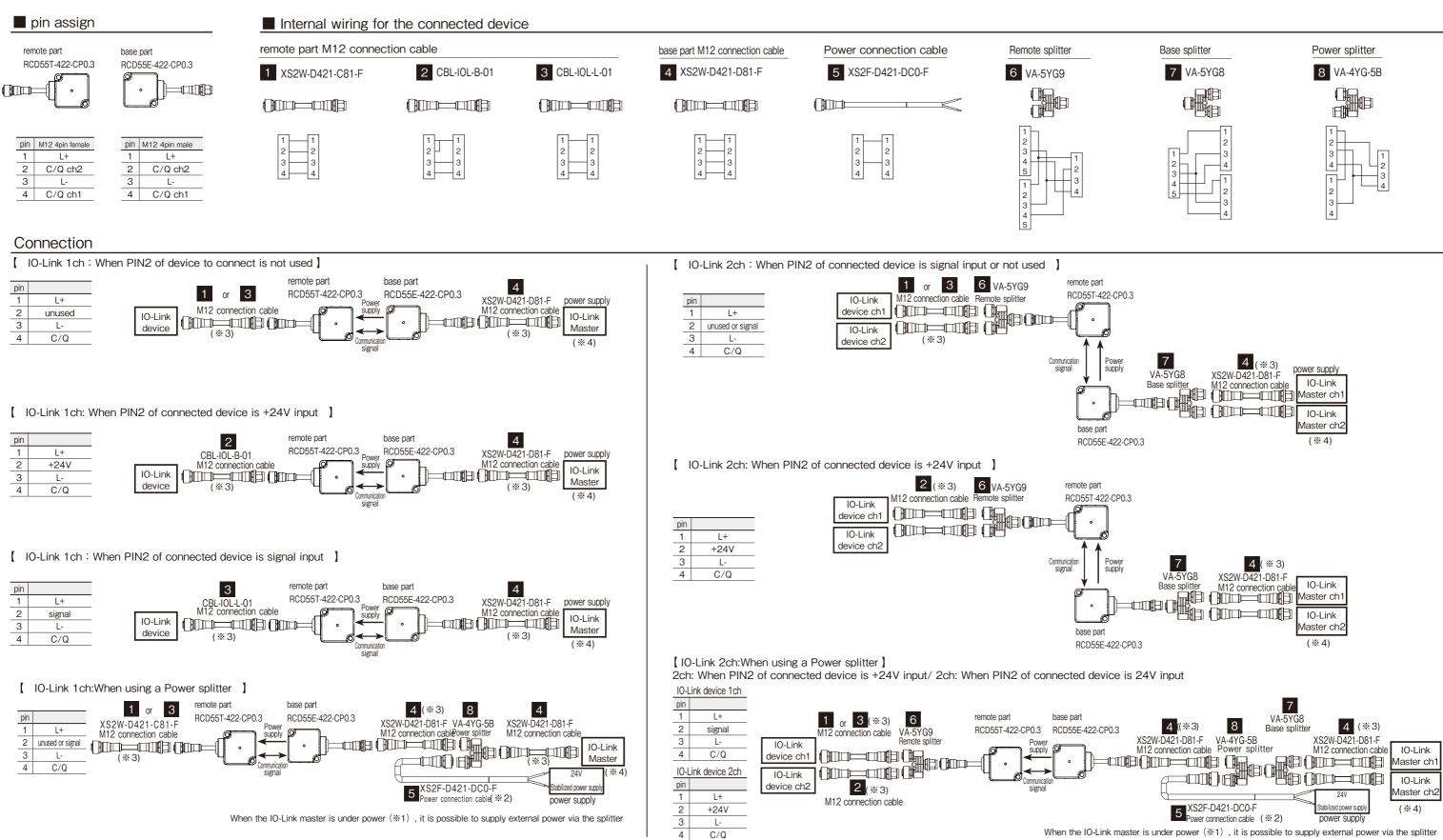
Bending radius of Cable

The minimum bending radius for thesensors are 50mm.

* Never pull the cable strongin installing







[Remarks]

- * 1 Please select IO-Link master or 24 V regulated power supply that can supply current not less than 1.4 times the total current consumption of IO-Link device.
- Example: When the total IO-Link device consumes 140 mA, the supply current of the IO-Link master must be 200 mA or more.
- Supply current of IO-Link master must be 1.4 A or more when IO-Link device total consumes 1 A
- * 2 Brown connects to 24V, blue to OV. Please take measures to unused core wire (black) as customer so as not to have shorts-circuit.
- * 3 The cable length from the connection part of the remote or base part to the device should be up to 10M. Please consider the voltage drop due to the current to be used and the size of the cable. ex.1A/10 m AWG22:1.0V AWG20:0.66V
- * 4 When using a large current IO-Link master, it is not necessary to connect a 24 V regulated power supply. Refer to the followings for "Recommended IO-Link master"

[Recommended IO-Link master]

- BNI CCL-502-100-Z001 (CC-Link network module IO-Link version)
- BNI DNT-502-100-Z001 (DeviceNet network module IO-Link version)
- BNI PBS-502-101-Z001 (PROFIBUS network module IO-Link version)
- BNI PNT-502-102-Z015 (PROFINET network module IO-Link version)
- BNI EIP-502-105-Z015 (Ethernet/IP network module IO-Link version) BNI ECT-508-105-Z015 (EtherCATnetwork module IO-Link version)



