

# INSTRUCTION SHEET

#### **Communication Unit Supporting Scanner**

Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user.

#### SAFETY PRECAUTIONS

In this operation instruction sheet, safety precautions are categorized in order of importance to Warning and Caution:

#### M WARNING

Warning, notice are used to emphasize that improper may cause severe personal injury or death

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Caution notices are used where inattention might cause personal injury or damage to equipment.

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- This product is not designed for use in medical equipment, nuclear power, railways aircraft, passenger vehicle equipment, or similar applications requiring a high degree of reliability and safety. Do not use the product for these applications.
- . When using this product in a system that may impact human life, such as in the management of chemicals, take the utmost care with a redundant design and safety design so that there is no possibility of impacting human life when data is mistaken
- · Do not modify, disassemble, or repair this product. There is a risk of serious accidents such as electric shock, damage, fire, malfunction, and other heave accident
- . This product is for general electronic equipment. Do not use it for applications where there is a direct threat to the body or to human life due to malfunction or failure.
- Always turn off the power supply before wiring, maintaining, and inspecting the product. Otherwise there is a risk of electric shock or failure.

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· Do not connect the product to a power supply outside the rated power supply voltage range or to an AC power supply. Otherwise there is a risk of explosion or burnout. Mistakenly wiring the product may cause the internal circuit to be damaged. Wiring the input and output circuits by referring to "Wiring, I/O's Information " in article 7.

- · Avoid parallel wiring of the product's wires in the same conduit or duct with high voltage lines or power lines (inverter power lines in particular) as this may cause malfunction or damage due to the effect of induction noise.
- If the wires are long and when there is a risk of being affected by power sources or solenoids, independently wire the product as a general rule
- · Avoid installing or using the product in the following locations as there is a risk of malfunction or damage
  - 1) Near induction equipment or heat sources
  - 2) Locations with many vibrations or shocks
  - 3) Dusty and dirty locations
  - 4) In an atmosphere with hazardous gases such as sulfidizing gas 5) Locations in direct contact with water, oils, or chemicals

6) Outdoors

· This product is not an explosion-proof product. Confirm that explosion-proof capabilities are not required when installing the product.

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# Installing the driver

#### · Using the USB port

To use the USB interface, you must install the dedicated Active USB-COM port drive (virtual COM port driver) on the host computer. For details on the installation procedure. refer to the unit manual

The unit manual can be downloaded from the dedicated site on the IDEC website. If using this product in an environment where the IDEC homepage cannot be accessed. please contact IDEC sales representatives

1 Type num	nber		
WB9Z-CU	100		
2 General specifications			
Power source for scanner	-	5VDC	

Environmental	Ambient usage	0 to +50°C (no freezing)	
Specifications	temperature		
	Ambient storage	-20 to +60°C (no freezing)	
	temperature		
	Ambient usage	30 to 85%RH (no condensation)	
	humidity		
	Vibration Resistance	10 to 55Hz, Double amplitude: 0.3mm	
Protective construction	-	IP20	
Electrical	Rated Operating	External power supply :	
Specifications	Voltage *1	24VDC +10%, -20% (including ripple)	
	Ŭ	or PoE (Alternative A / B) *5	
	Consumption Current	700mA max.	
Weight	-	180g approx.	
Input	Input	2 circuits in 1 common line (IN 0, 1)	
Specifications	Input Type	Bidirectional Voltage Input	
	Rated input voltage	24VDC (28.8V max.)	
	Input threshold	15VDC	
	voltage (ON)		
	OFF Current	1.3mA max.	
Output	Output	4 circuits (OUT 0, 1, 2, 3)	
Specifications Output Type		Semiconductor Relay Output	
	Rated load	24VDC (30VDC max., 100mA max.)	
	Leakage current	0.1mA max.	
	at OFF		
	Voltage drop	1V max.	
Communication	Scanner interface	RS-232 (600-115,200bps) *3	
Ports	Ethernet Port*4	IEEE802.3 compliant *2	
		10BASE-T/100BASE-TX	
		Communication Protocol:	
		TCP/IP (Server)	
		Cable length: 100m max. Use a shielded	
		cable, when using a cable of 30m long or more.	
	Terminal	RS-232(600-115,200bps) *2	
		Cable length: 10m max.	
		RS-422(full duplex) (600-115,200bps) *2	
		Cable length: 500m max. *6	
	USB interface	USB2.0(Full-speed)	
	(for maintenace only)	12Mbps(Virtual COM)	
Certified standards			
	CE marking(Declaration of Conformity),		
	VCCI(Report of Compliance), FCC(Verification), ICES-003(Comply)		

1 If you use this product as UL Listing product, you shall use only a Listed Power Supply with an output rated maximum 24V dc, 8A, 100VA and marked LPS or NEC Class 2.

2 Ethernet, RS-232, and RS-422 are mutually exclusive, only one of three can be used at the same time

B Default setting (Scanner interface) : Baud rate 9,600bps, data size 8bit, 1 stop bit, even parity bit, no flow contro 4 Default setting: Port No. 3000, IP address 192.168.1.100, subnet mask 255.255.255.0 5 The DE input is intended for intra-building use only.
And the PoE is set Class 0. The power consumption can be changed with which scanner to use.

6 When using a cable of 30m long or more, use a shielded cable and connect the shield to F.E.

#### 3 Designation

B) In 1

9) **0**V

VO

1 S\_RS RS-232

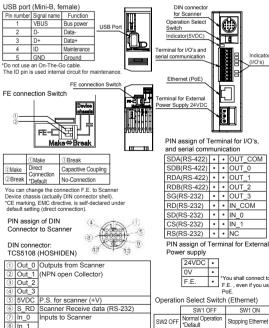
S\_CS Control signal

P.S. for scanner (-V, combined SG)

P.S. for scanner (-V, combined SG)

(ii) S SD Scanner Transmission data (RS-232

B-1946(3)



Running under

SW2 ON default setting

You can change the

peration by turning

ON P.S. after SW1

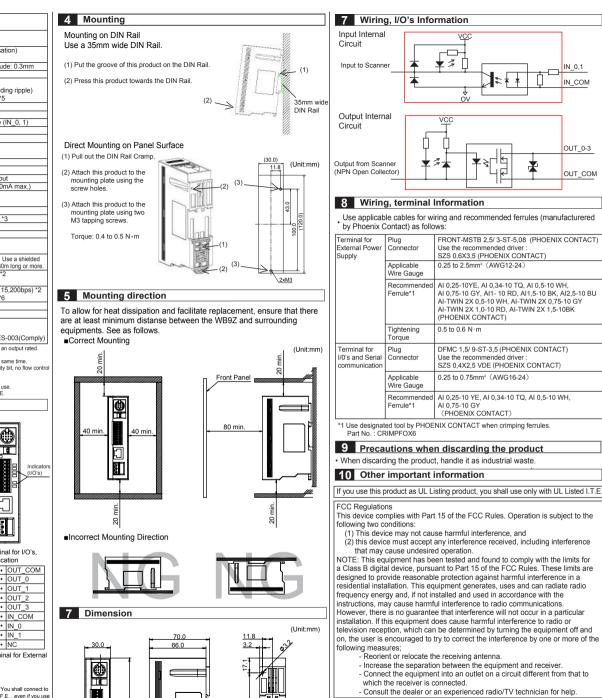
and SW2 are set.

Do not use

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(for maintenance

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IN 0.1

IN COM

OUT 0-3

OUT COM