



Thank you for selecting OMRON product. This sheet primarily describes precautions required in installing and operating the product.

Before operating the product, read the sheet thoroughly to acquire sufficient knowledge of the product. For your convenience, keep the sheet at your disposal.

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Manufacturer:
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- (1) Ensure safety, be absolutely sure to follow the instructions below:
 - (1) Never use the product in an environment where combustible or explosive gas is present.
 - (2) Please separate from a high-pressure equipment and the power equipment to secure the safety of the operation and maintenance.
 - (3) In the installation, please tighten the screw surely. (Recommended 1.2N·m)
 - (4) Please do not insert foreign bodies such as water and the wires from the space of the case.
 - (5) Please do not dismantle, repair or modify this product.
 - (6) Please process as industrial waste when you abandon this product.
 - (7) When you work on wiring and put on and take off cables, CIDRW head, please perform it after switching off this product.
 - (8) Provide enough space around this product for ventilation.
 - (9) Please avoid installing this product near the machinery (a heater, a transformer, large-capacity resistance) that has high the calorific value.
 - (10) Please talk to our office by any chance after you cancel use immediately when you felt abnormality to this product, and having switched it off.

1. About installation site
 - (1) Do not install this product in the locations subject to the following conditions.
 - (2) Place where direct sunshine strikes
 - (3) Place with corroded gas, dust, metallic powder, and salinity
 - (4) Place with condensation due to rapid temperature fluctuations.
 - (5) Place with condensation due to high humidity.
 - (6) Place where vibration and impact more than being provided by specification are transmitted directly to main body.
 - (7) Place with spray of water, oil, and chemical medicine.
 - (7) The working temperature is within the range stipulated in the specifications.
2. About depository site
 - (1) Please follow the save ambient temperature / humidity, and keep this product.
3. About wiring
 - (1) Use the power supply voltage specified in this document.
 - (2) Ensure correct polarity when connecting to the +/- power supply terminals.
 - (3) Do not run high-voltage lines and power lines though the same conduit.
 - (4) To avoid static-induced failure, wear a wrist band or equivalent means to release a static charge before touching a terminal or a signal line within a connector.
 - (5) When you put on and take off a CIDRW head, please do not add excessive power to a connector.
 - (6) Please connect the correct CIDRW head to the amplifier unit. If an incorrect CIDRW head is connected, the desired communication

- performance may not be achieved.
4. About cleaning
 - (1) Use alcohol to clean this product.
 - (2) NEVER use an organic solvent such as thinner, benzene, acetone or kerosene, as it will attack resin components or case coating.
5. Power and Ground Cables
 - (1) Use an appropriate ground. An insufficient ground can affect this product operation or result in damage to this product.
6. About the communication range and time
 - (1) Do the communication test with Transponder in the installation environment because the metal, noise and ambient temperature around CIDRW head damage to the communication range and time.
 - (2) Install CIDRW head and ID tag in the appropriate distance because the communication range can change by the difference of ID tag specifications.
7. About mounting
 - (1) This product communicates with ID Tags using the 134 kHz frequency band. Some transceivers, motors, monitoring equipment, and power supplies (power supply ICs) generate electrical waves (noise) that interfere with communications with ID Tags. If you are using the product in the vicinity of any of these devices, check the effect on communications in advance.
 - (2) In order to minimize the effects of noise, ground nearby metal bodies with a grounding resistance not exceeding 100 ohms.
 - (3) When multiple CIDRW Heads are mounted next to each other, communications performance could be impaired by mutual interference. Read and follow the information in this manual on mutual interference when installing multiple heads.
 - (4) When mounting CIDRW Heads, tighten the screws tightly.
(Recommended 0.6N·m)
8. Screw Locking Adhesive
 - (1) Screw locking adhesive (screw lock) may cause deterioration and cracking of resin parts; do not use it for screws in resin parts or anywhere where resin washers are used.
9. Communications with the Host Device
 - (1) Communicate with the host device only after confirming that the CIDRW Controller has started. Also, unstable signals may occur at the host interface when the CIDRW Controller is started. When initializing operation, clear the reception buffer at the host device or take other suitable methods to clear unwanted signals.
10. Startup precaution
 - (1) Never turn OFF the power supply while the CIDRW Controller is starting, including when power is turned ON, when the mode is changed, or when the CIDRW Controller is being reset. Doing so may damage the CIDRW Controller.
11. About Transponder made by Texas Instruments Co.
 - (1) We can't warrant the specifications of the communication with Transponder.
 - (2) When the Transponder is at fault, we can't analyze the Transponder.
12. The characteristics of the V640-HAM11(-L)-ETN-V2 / V640-HAM11(-L)-ETN-V5
 - (1) It is a circuit, designed to communicate characteristics match, but because it is intended to carry out the communication with the transponder, can not be guaranteed.

Item	Specification	
	V640-HAM11-ETN-V5	V640-HAM11-L-ETN-V5
Power supply voltage	24 VDC, +10%, -15%	
Current consumption	150 mA max.	400 mA max.
Protection rating	IP20 (IEC 60529:2001)	
Ambient temperature	Operating: 0°C to +40°C Storage: -15°C to +65°C (with no icing)	
Ambient humidity	Operating/ Storage: 35% to 85% (with no condensation)	
Insulation resistance	20M Ω min. (with 100VDC megohmmeter) between power supply terminal and frame grounding terminal	
Dielectric strength	1000VAC (50/60Hz, for 1 min.) leak current consumption 5mA max. between power supply terminal and frame grounding terminal	
Vibration resistance	10 to 150Hz, double amplitude: 0.20mm, Max. Acceleration: 15m/s ² , with 10 sweeps for 8min each in 3 directions	
Shock resistance	150m/s ² , 3 times each in 6 directions	
Ground	Ground to 100 Ω or less.	
Case material	PC/ABS resin	
Dimensions	80 × 185 × 43 mm (W × H × D, excluding protruding parts)	
Mass	Approx. 250 g	
Frequency	134.2 kHz	
Radiated magnetic field strength	maximum 35 dB μ A/m at 10 meters	
Environmental pollution degree	Degree 2	
Over voltage category	Category I	
Mounting method	Secured with four M4 screws. (tightening torque: 1.2 N·m)	
CIDRW head	V640-HS61	V640-HS62

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|-------|---|
| RUN | Remains stably lit as long as the amplifier unit is operating normally. |
| COMM | Remains lit during the communication with a host or an ID tag. |
| NORM | Lights when the communications with an ID tag are successful. |
| ERROR | Lights when the communications with an host or an ID tag are failed. |

- | No. | Description | Meaning (Content within a box represents factory-setting) |
|-----|--------------|--|
| 1 | IP Address 1 | You can set the IP Address as "192.168.1.XXX" |
| 2 | IP Address 2 | XXX = from "001" to "031" |
| 3 | IP Address 3 | If all switches are OFF, the ROM value will be set.
(Default : <u>192.168.1.200</u>) |
| 4 | IP Address 4 | |
| 5 | IP Address 5 | |
| 6 | Reserved | Please turn off this SW. |
| 7 | Reserved | Please turn off this SW. |
| 8 | Safe mode | <u>OFF</u> ON |
| 9 | Test mode | <u>OFF</u> ON |
| 10 | Reserved | Please turn off this SW. |

You can set the IP Address and the Subnet Mask as any value by setting DIP-SW1 - DIP-SW5 to OFF.

- *Use the product below as a crimping tool for crimping the compression ring.
Model 919601-1 (Tyco Electronics Co.)



* Be sure to limit the tightening torque for the M4 screws as 1.2 N·m.

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Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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