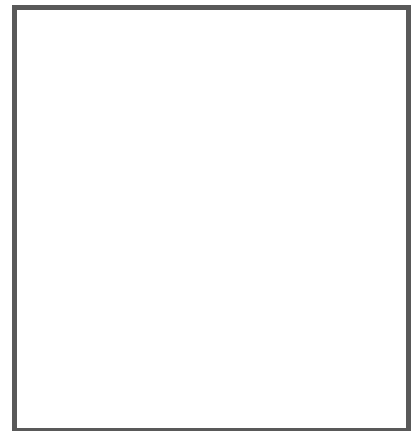




MANUAL

RocketLinx

ICRL2-U-8RJ45-G-DIN





With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elektroindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause: "Expanded reservation of proprietorship".



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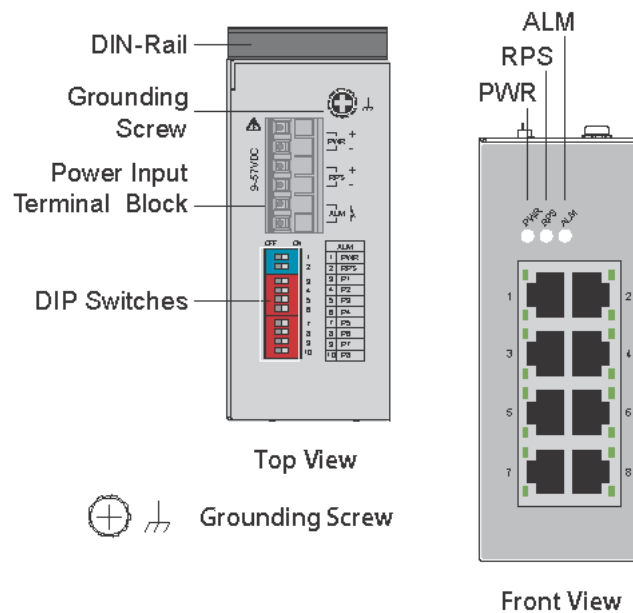


1. Introduction

1.1. Product Overview

The ICRL2-U-8RJ45-G-DIN is an unmanaged Industrial Ethernet switch that is specially designed to expand reliable Ethernet connectivity to factory floors and outdoor environments with extreme temperature and climatic conditions.

The ICRL2-U-8RJ45-G-DIN is equipped with 8 x 10/100/1000Mbps RJ45 Ports that are enclosed in an IP40 housing.



1.2. Packing List

The ICRL2-U-8RJ45-G-DIN is shipped with the following items. If any of these are missing or damaged, please contact your customer service representative for assistance.

- ICRL2-U-8RJ45-G-DIN
- DIN rail kit

2. Installation

2.1. Mounting / Dismounting



ATTENTION:

The ICRL2-U-8RJ45-G-DIN is an open type device and shall be DIN-Rail mounted or wall mounted (optional) in the cabinet and the ambient temperature should not exceed the operating temperature.

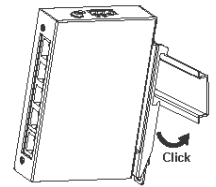
2.1.1. Mounting the ICRL2-U-8RJ45-G-DIN

Place the ICRL2-U-8RJ45-G-DIN on the DIN rail from above using the slot, push the front of the switch toward the mounting surface until it snaps into place with a click.



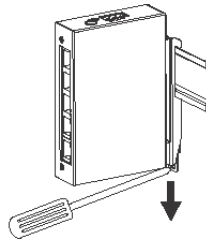
ATTENTION: A corrosion-free mounting rail is advisable.

When installing, make sure to allow for enough space between devices to properly install the cabling and provide ample space for air flow.



2.1.2. Dismounting the ICRL2-U-8RJ45-G-DIN

Press the switch from top and pull out the lower edge of the switch and then remove the switch from the DIN rail.



ATTENTION:

A corrosion-free mounting rail is advised. When installing, make sure to allow for enough space between devices to properly install the cabling and provide ample space for air flow.

ATTENTION:

Il est conseillé d'utiliser un rail de montage résistant à la corrosion. Lors de l'installation, veuillez à prévoir un espace suffisant entre les appareils pour le câblage et une bonne ventilation.

2.2. Grounding the ICRL2-U-8RJ45-G-DIN

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI).

1. Run the ground connection from the ground screw to the grounding surface prior to connecting devices.
2. Connect the ground connection from the terminal block to the grounding surface prior to connecting devices.



ATTENTION:

This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

2.3. Wiring Requirements



WARNING

Safety measures should be taken before connecting the power cable.

- Turn off the power before connecting modules or wires.
- The correct power supply voltage is listed on the product label.
- Check the voltage of your power source to make sure that you are using the correct voltage.
- DO NOT use a voltage greater than what is specified on the product label.
- Calculate the maximum possible current in each power wire and common wire.
- Observe all electrical codes dictating the maximum current allowable for each wire size. If current exceeds the maximum rating, the wiring can overheat causing serious damage to your equipment.

Please read and follow these guidelines:

- Use separate paths to route wiring for power and Ethernet. If power wiring and Ethernet wiring paths must cross make sure the wires are perpendicular at the intersection point.

Note: *Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.*

- Use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together.
- Separate input wiring from output wiring.
- It is advised that you label the wiring to all devices in the system.

2.3.1. Wiring the Power Input

Use (- / +) for power input and RPS (redundant power supply). Check the polarity during connection. The top view of the Terminal Block is shown in the figure.



Caution

- Use copper conductors only
- Wiring cable temperature should support at least 105°C
- Tighten the wire to a torque value 5 in-lb
- The wire gauge for the terminal block should range between 12~24 AWG.



MISE EN GARDE:

- Utilisez uniquement des conducteurs en cuivre.
- La température du câble de câblage doit supporter au moins 105°C.
- Serrer le fil à une valeur de couple de 5 in-lb.
- Le calibre de fil du bornier doit être compris entre 12 et 24 AWG avec.

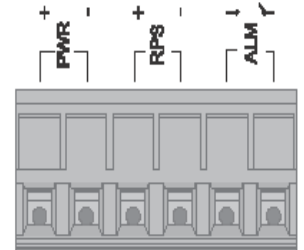
To insert power wire and connect the 9 - 57 V DC at a maximum of 1 A DC power to the power terminal block, follow the steps below:

1. Use flat-head screw driver to loosen the wire-clamp screws.
2. Insert the negative/positive DC wires into the (- / +) terminals, respectively.
3. Tighten the wire-clamp screws to prevent the wires from loosening.



ATTENTION:

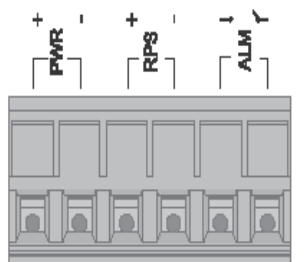
Please use a power supply from 9 - 57 V DC, the device power shall be supplied with SELV circuit.



2.4. Wiring the Relay Contact (ALM)

The ICRL2-U-8RJ45-G-DIN provides a relay contact feature. The two contacts of the 6-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form an open circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains closed.

Relay rating: 24V, 1A



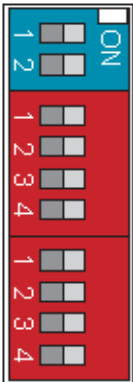
2.5. Connecting Devices

Connect one end of an Ethernet/RJ45 cable into Ethernet port of ICRL2-U-8RJ45-G-DIN and other end to attached networking device.

- Ports 1-8 of the switch support 10/100/1000 Mbps
- All the RJ45 ports on the ICRL2-U-8RJ45-G-DIN support auto negotiation and auto MDI/MDI-X to eliminate the need for crossover cabling.

Note: Category 5e cable or above should be used.

2.6. DIP Switch Setting

	1 PWR	PWR	ON: Primary power alarm reporting is enabled OFF: Primary power alarm reporting is disabled
	2 RPS	RPS	ON: Redundant power alarm reporting is enabled OFF: Redundant power alarm reporting is disabled
	3 P1	P1	ON: Port 1 link alarm reporting is enabled OFF: Port 1 link alarm reporting is disabled
	4 P2	P2	ON: Port 2 link alarm reporting is enabled OFF: Port 2 link alarm reporting is disabled
	5 P3	P3	ON: Port 3 link alarm reporting is enabled OFF: Port 3 link alarm reporting is disabled
	6 P4	P4	ON: Port 4 link alarm reporting is enabled OFF: Port 4 link alarm reporting is disabled
	7 P5	P5	ON: Port 5 link alarm reporting is enabled OFF: Port 5 link alarm reporting is disabled
	8 P6	P6	ON: Port 6 link alarm reporting is enabled OFF: Port 6 link alarm reporting is disabled
	9 P7	P7	ON: Port 7 link alarm reporting is enabled OFF: Port 7 link alarm reporting is disabled
	10 P8	P8	ON: Port 8 link alarm reporting is enabled OFF: Port 8 link alarm reporting is disabled

2.7. LED Indicators

PWR (Green)	Lit	Power available through the terminal block PWR connection
	Off	Terminal block power failure or power is not available
RPS (Green)	Lit	Power available through the terminal block RPS connection
	Off	Terminal block power failure or power is not available
ALM	Lit	PWR/RPS failure or is not available
	Off	No power or DIP function is disabled
1000 (Green)	Lit	Link speed at 1000 Mbps
	Off	Link speed at 10/100 Mbps
LNK/ACT (Green)	Lit	Port link up
	Blinking	Activity (transmitting/receiving data)
	Off	Port disconnected or link failed

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2.8. Environmental Limits

Environmental limits certified by UL:

Operating Temperature	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Altitude	Up to 2000m
Ambient relative humidity	5 to 95% (non condensing)
UL61010	Indoor use and pollution degree 2



ATTENTION:

This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.



ATTENTION:

If the equipment is used in a manner not specified by Pepperl+Fuchs, the protection provided by the equipment may be impaired.



ATTENTION:

Please leave at least 5cm of space at the left and right of the unit for ventilation.

FACTORY AUTOMATION – SENSING YOUR NEEDS



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