

# R130C 8-Port 2-Channel PNP IO-Link Hub

## Datasheet



## Technical Information

This guide is designed to help you set up and install the R130C 8-Port 2-Channel PNP IO-Link Hub. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at [www.bannerengineering.com](http://www.bannerengineering.com). Search for part number 236035 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

## Overview

The R130C-8P22-KQ hub connects two discrete Input/Output channels to each of the eight unique ports, providing access to monitoring and configuring those ports with an IO-Link master. Host mirroring is available where a selected port input/output discrete signal can be routed to Pin 2 (male) on the PLC/Host connection.

## IO-Link®

IO-Link® is a point-to-point communication link between a master device and a sensor and/or light. It can be used to automatically parameterize sensors or lights and to transmit process data. For the latest IO-Link protocol and specifications, please visit [www.io-link.com](http://www.io-link.com).

For the latest IODD files, please refer to the Banner Engineering Corp website at: [www.bannerengineering.com](http://www.bannerengineering.com).

## Resources

For more information, see P/N 236036 *R130C-8P22-KQ IO-Link Data Reference Guide* and P/N 236037 *R130C-8P22-KQ IODD Files*.

## Mechanical Installation

Install the R130C to allow access for functional checks, maintenance, and service or replacement. Do not install the R130C in such a way to allow for intentional defeat.

Fasteners must be of sufficient strength to guard against breakage. The use of permanent fasteners or locking hardware is recommended to prevent the loosening or displacement of the device. The mounting hole (4.5 mm) in the R130C accepts M4 (#8) hardware.



**CAUTION:** Do not overtighten the R130C's mounting screw during installation. Overtightening can affect the performance of the R130C.

## Status Indicators

The R130C 8-Port 2-Channel PNP IO-Link Hub has two matching amber LED indicators. There is also an additional amber LED specific to the IO-Link communications and a green power indication LED.

LED	Indication	Status
Discrete Device Amber LEDs	Off	Discrete In and Out are inactive
	Solid Amber	Discrete In or Out is active
IO-Link Communication Amber LED	Off	IO-Link communications are not present
	Flashing Amber (900 ms On, 100 ms Off)	IO-Link communications are active
Power Indicator Green LED	Off	Power off
	Solid Green	Power on

## Specifications

### Supply Voltage

18 V DC to 30 V DC at 400 mA maximum  
(exclusive of load)

### Power Pass-Through Current

Not to exceed 4 amps total

### Discrete Output Load Rating

200 mA

### Supply Protection Circuitry

Protected against reverse polarity and transient voltages

### Leakage Current Immunity

400 µA

### Indicators

Green: Power  
Amber: IO-Link communications  
Amber: 2x Discrete In/Out statuses per 8 ports

### Connections

- (8) Integral 4-pin M12 female quick-disconnect connectors
- (1) Integral 4-pin M12 male quick-disconnect connector

### Construction

Coupling Material: Nickel-plated brass  
Connector Body: PVC translucent black

### Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)  
Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

### Operating Conditions

**Temperature:** -40 °C to +70 °C (-40 °F to +158 °F)  
90% at +70 °C maximum relative humidity (non-condensing)  
**Storage Temperature:** -40 °C to +80 °C (-40 °F to +176 °F)

### Required Overcurrent Protection



**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table. Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.  
Supply wiring leads < 24 AWG shall not be spliced. For additional product support, go to [www.bannerengineering.com](http://www.bannerengineering.com).

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

Product Identification



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1831 Diegem, BELGIUM



Turck Banner LTD Blenheim House  
Blenheim Court  
Wickford, Essex SS11 8YT  
GREAT BRITAIN



Product Identification



SNAP SIGNAL®

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For patent information, see [www.bannerengineering.com/patents](http://www.bannerengineering.com/patents).

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