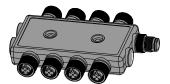
R95C 8-Port Discrete Bimodal to IO-Link Hub



Quick Start Guide

This guide is designed to help you set up and install the R95C 8-Port Discrete Bimodal to IO-Link Hub. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. 227446 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.



- Compact bimodal to IO-Link device converter that connects discrete inputs and sends
- the value to the IO-Link Master
 Enabled Delay Modes: ON/OFF Delay, ON/OFF One-shot, ON/OFF/Retriggerable One-shot, ON/OFF Pulse-stretcher and Totalizer
- Measurement Metrics: Count, Events Per Minute (EPM), and Duration
- Discrete Mirroring: Discrete signals (In/Out) from all eight ports can be mirrored to any of the eight ports, Discrete Out, or the host white wire output
- Outputs a discrete value as received from IO-Link Master Process Data Out
- Discrete input/output can be independently configured as NPN or PNP
- Rugged over-molded design meets IP65, IP67, and IP68
- Connects directly to a sensor or anywhere in-line for ease of use
- R95C IO-Link hubs are a quick, easy, and economical way to integrate non-IO-Link devices into an IO-Link system

Overview

The R95C-8B21-KQ hub connects two discrete 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.

For the latest IODD files, please refer to the Banner Engineering Corp website at: www.bannerengineering.com.

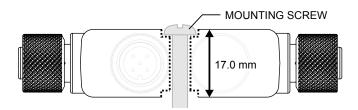
Resources

For more information, see P/N 227447 R95C-8B21-KQ IO-Link Data Reference Guide and P/N 227506 R95C-8B21-KQ IODD Files.

Mechanical Installation

Install the R95C 8-Port Hub to allow access for functional checks, maintenance, and service or replacement. Do not install the R95C 8-Port Hub in such a way to allow for intentional defeat.

All mounting hardware is supplied by the user. Fasteners must be of sufficient strength to guard against breakage. 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 R95C 8-Port Hub accepts M4 (#8) hardware. See the figure below to help in determining the minimum screw length.





CAUTION: Do not overtighten the R95C 8-Port Hub's mounting screw during installation. Overtightening can affect the performance of the R95C 8-Port Hub.

Status Indicators

The R95C 8-Port Discrete Bimodal to IO-Link Hub has matching amber LED indicators on both sides for each discrete device port to allow for installation needs and still provide adequate indication visibility. There is also an additional amber LED indicator on both sides of the converter, which is specific to the IO-Link communication.

Discrete Device Amber LEDs		IO-Link Communication Amber LED		
Indication	Status	Indication	Status	
Off	Discrete OUT is inactive	Off	IO-Link communications are not present	
Solid Amber	Discrete OUT is active	Flashing Amber (900 ms On, 100 ms Off)	IO-Link communications are active	1

Power Indicator Gree	r Indicator Green LED	
Indication	Status	
Off	Power off	
Solid Green	Power on	



Specifications

Supply Voltage 18 V DC to 30 V DC at 400 mA maximum

Power Pass-Through Current

500 mA per port maximum

Discrete Output Load Rating

Supply Protection Circuitry

rotected against reverse polarity and transient voltages

Leakage Current Immunity

Indicators

Green: Power Amber: IO-Link communications Amber: Discrete OUT status

Connections

(8) Integral 4-pin M12 female quick disconnect (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)

Certifications



Banner Engineering Europe Park Lane, Culliganlaan 2F bus 3, 1831 Diegem, BELGIUM



Turck Banner LTD Blenheim House, Blenheim Court, Wickford, Essex SS11 8YT, Great Britain





Environmental Rating

IP65 IP67 IP68 NEMA/UL Type 1

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.

Supply Wiring (AWG)	Required Overcurrent Protection (Amps)
20	5.0
22	3.0
24	2.0
26	1.0
28	0.8
30	0.5

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For patent information, see www.bannerengineering.com/patents

FCC Part 15 Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada

This device complies with CAN ICES-3 (B)/NMB-3(B). Operation is subject to the following two conditions: 1) This device may not cause harmful interference; and 2) This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme à la norme NMB-3(B). Le fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne peut pas occasionner d'interférences, et (2) il doit tolérer toute interférence, y compris celles susceptibles de provoquer un fonctionnement non souhaité du dispositif.



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