



BANNER Engineering R95C-8UI-KQ 8-Port Analog In to IO Link Hub User Guide

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R95C 8-Port Analog In to IO-Link Hub Quick Start Guide

Features

This guide is designed to help you set up and install the R95C 8-Port Analog In to IO-Link Hub. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for part number 232750 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

Overview

When an analog input value is received by the R95C-8UI-KQ hub, the numerical representational value is sent to an IO-Link Master via Process Data In (PDI).

PDI Analog Ranges

Voltage = 0 mV to 10,000 mV

Current = 4,000 μ A to 20,000 μ A

PFM Out

Enables a PFM representation of an analog input as an output

Mechanical Installation

Install the R95C to allow access for functional checks, maintenance, and service or replacement. Do not install the R95C 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 R95C accepts M4 (#8) hardware



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

Status Indicators

The R95C 8-Port Analog In to IO-Link Hub has matching amber LED indicators on both sides for each analog in 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 IOLink communication.

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

IOLink Amber LED	
Indication	Status
Off	IOLink communications are not present
Flashing Amber (900 ms On, 100 ms Off)	IOLink communications are active

Analog In Amber LED	
Indication	Status
Off	Analog current value is less than setpoint SP1 OR analog value is greater than setpoint SP2
Solid Amber	Analog current value is between setpoint SP1 AND setpoint SP2
Default Current Values: <ul style="list-style-type: none"> • SP1 = 0.004 A • SP2 = 0.02 A 	Default Voltage Values: <ul style="list-style-type: none"> • SP1 = 0 V • SP2 = 10 V

Specifications

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

Power Pass-Through Current 500 mA per port maximum

Analog Input Impedance

Current version: Approximately 450 ohms Voltage version: Approximately 14.3K ohms

Supply Protection Circuitry

Protected against reverse polarity and transient voltages

Leakage Current Immunity 400 μ A

Indicators

Green: Power

Amber: IO-Link communications Amber: Analog In status

Connections

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

(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



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GREAT BRITAIN



Environmental Rating IP65, IP67, IP68

NEMA/UL Type 1

Operating Conditions

Temperature: -40°C to $+70^{\circ}\text{C}$ (-40°F to $+158^{\circ}\text{F}$) 90% at $+70^{\circ}\text{C}$ maximum relative humidity (non-condensing)

Storage Temperature: -40°C to $+80^{\circ}\text{C}$ (-40°F to $+176^{\circ}\text{F}$)

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 (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

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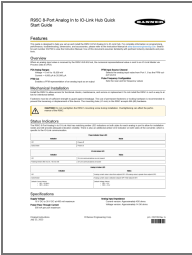
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R95C-8UI-KQ, R95C-8UI-KQ 8-Port Analog In to IO Link Hub, 8-Port Analog In to IO Link Hub,
Analog In to IO Link Hub, IO Link Hub, Hub

References

-  [Banner Engineering](#)
-  [Patents](#)

[Manuals+](#).