HIRSCH Primis Input/Output Bridge[™] Installation Guide

PART NUMBERS



FR-50-40-I/O, FR-50-40-I/OL

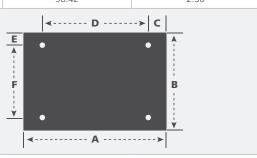
FR-50-24-I/O

PHYSICAL SPECIFICATIONS

Length	76 mm (3.00 in.)
Width	47 mm (1.85 in.)
Height	17 mm (0.67 in.)
Weight	34 g (1.20 oz.)
Max Readers	0
Max Input	12
Max Output	2
Certifications	Electrical: UL294 and UL294B Power over ethernet: IEEE 802af Mode A only, Class 2 (6.49 Watts) EMI Radiation: FCC Part 15 Class B

BASE PLATE MOUNTING

Dimension	Millimeters	Inches
А	116.07	4.57
В	78.74	3.10
С	15.24	0.60
D	85.59	3.37
E	10.16	0.40
F	58.42	2.30



SUMMARIZED LEVELS OF ACCESS CONTROL COMPONENTS

Destructive Attack	Level I
Line Security	Level I
Endurance	Level I
Standby Power	Level I
Single Point Locking	Level I



Primis Bridges should only be installed in dry, non-condensing environments. The ambient temperature of the environment should range between -40°C and 50°C.

Primis Encryption Bridges should only be mounted to non-conductive surfaces. Incorrect mounting may short-circuit the electronics, which will cause it to malfunction.

DC power, reader, input contact, and output device wires should be between 16-28 AWG. They should also be stripped 5.5mm to sufficiently fit the terminal blocks and ensure that they do not come in contact with each other.



For each of the following steps, be sure to reference the wiring diagram on page 2 for additional details:

- If you have any supervised input contacts, wire them to the Digital Contact Inputs using Method 1 or Method 2. Note: Only In5, In6, In11, and In12 support Input Supervision.
- **2.** If you have any non-supervised input contacts, wire them to the Digital Contact Inputs.
- 3. Wire the output devices to the Relay Outputs.
- Supply power to the Primis Bridge using either or both of the following methods:
 - A. A 2.25 5.25W Power over Ethernet (PoE) port on an Ethernet switch connected to the Primis Bridge using a Cat5e or Cat6 cable. (Passive injectors not supported; Mode A PoE only)
 - B. 12 16Vdc & 350mA (300mA external & 50 mA internal) DC power connected directly to the TB1 terminal on the Primis Bridge.
- 5. If you are not using PoE to power your Primis Bridge, connect a Cat5e or Cat6 cable from any port on an Ethernet Switch to the RJ-45 connector on the Primis Bridge. Note: Ethernet only supports a maximum cable length of 100 m.
- **6.** To configure and add the Primis Bridge to a Primis Server, refer to the Primis Solution Guide manual.

HIRSCH > Wiring Reference

OPTIONAL DC POWER IN 0v DC Power Ground +12 DC Power Input Requirements • 12 – 16 Vdc (300 mA external & 50 mA internal)

2 RESET BUTTON

Press and hold this button for 10 seconds to reset the configuration back to default.

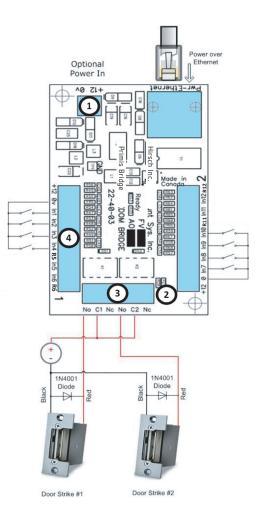
(3) RELAY OUTPUTS

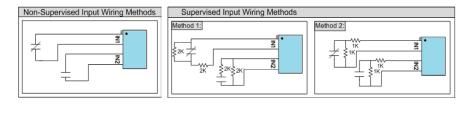
Nc	Normally closed
C1 - C2	Common 1 - 2
No	Normally open
Relay Contact	DC: 30 Vdc @ 1 Adc AC: 60 Vac @ 0.5 Aac

(4) DIGITAL CONTACT INPUTS

0v / R#	Ground
12v	Power output
ln1 - ln12	Input 1 - 12
12v Power Output using PoE	11.5 - 12.5 Vdc300 mA Max. Current
12v Power Output using DC	 8.5 - 16 Vdc 300 mA Max. Current
*Only InE InE In	11 and In12 support Input Supportision

*Only In5, In6, In11, and In12 support Input Supervision







A flashing green "Ready" LED light on the Primis Bridge circuit board indicates that the bridge is powered but not connected to a server.

A solid green "Ready" LED light indicates that the Primis Bridge has established a connection to the server and is ready to use.



This product is sensitive to Electrostatic Discharges (ESD).

Take precautions while handling the product by using proper grounding straps at all times.

HIRSCH INSTALLATION GUIDE

Hirsch is a global technology leader, revolutionizing physical security solutions, video intelligence, and digital identification systems. Hirsch is part of the Vitaprotech Group. For more information, visit hirschsecure.com or email sales@hirschsecure.com.

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISION DATE: 2024-10-16

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