

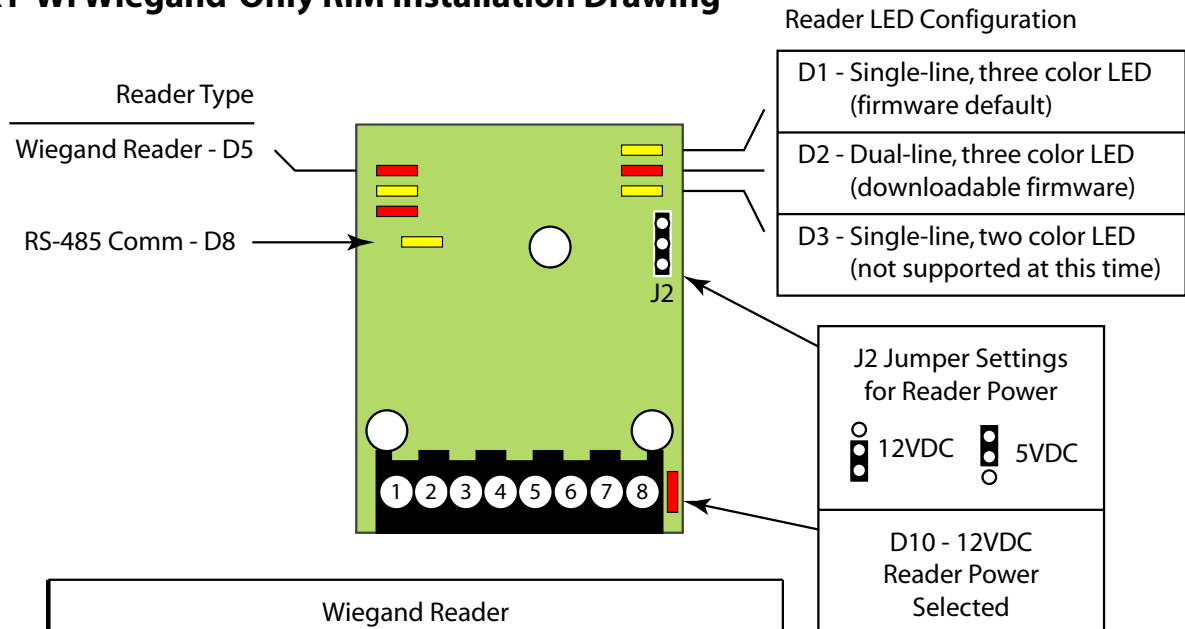
# NXT-WI Wiegand-Only Reader Interface Module

## Installation Guide

### 1.0 Wiring and Layout Diagrams

#### 1.1 Reader Interface Module (RIM)

**NXT-WI Wiegand-Only RIM Installation Drawing**



Pin #	Wiegand Reader			
	Single-Line LED		Dual-Line LED	
	Connection	* Farpointe Wire Color	Connection	* Farpointe Wire Color
1	n/a	n/a	n/a	n/a
2	Beeper	Blue	Beeper	Blue
3	LED	Brown	Red LED	Brown
4	n/a	n/a	Green LED	Orange
5	+ 12 VDC	Red	+ 12 VDC	Red
6	Ground	Black & Shield	Ground	Black & Shield
7	Data0	Green	Data0	Green
8	Data1	White	Data1	White

\* Please refer to the reader manufacturer's documentation for other Wiegand reader types.

P/N: 02509-002 Rev.B

*NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*

# NXT-WI Wiegand-Only Reader Interface Module

## Installation Guide

---

## 2.0 Specifications

### 2.1 Size

- When mounted on the NXT Controller
  - 6.50 inches high by 5.50 inches wide by 2.50 inches deep, not including wiring connectors
  - 16.51 cm by 13.97 cm by 6.35 cm

### 2.2 Power/Current Requirements

- 10 to 14 VDC @ 100 mA (maximum current draw at 12 VDC)

### 2.3 Operating Conditions

- 32°F to 150°F (0°C to 60°C) – 0% to 90% Relative Humidity, non-condensing

### 2.4 Cable Requirements

The total RIM to reader cable length must be less than 500 feet.

*NOTE: On long cable runs, cable resistance causes a drop in voltage at the end of the cable run. Ensure the appropriate power and current for your device is available **at the device** at the end of the cable run.*

**Table 1: Cable Requirements**

Connection	Total Run Length	# of Conductors	Shielded	Stranded	Twisted Pair	AWG <sup>a</sup>	Belden Equivalent
RIM to Wiegand Dual-line LED Reader	500 feet	7	Y	Y	N	22	9537

a. Heavier gauges than those listed are always acceptable.

## 3.0 RIM Configuration

The Wiegand-Only RIM is hard-configured in single-line, three color LED, Wiegand reader mode by firmware default. The firmware revision is v3.03.21.

A dual-line, three color LED firmware revision is available for download from the Keri web site. Use the Doors.NET firmware upgrade to load this firmware image on the Wiegand-Only RIM. This firmware revision is v3.03.10. It can be found in the RIM firmware download section of the Software Downloads webpage:

<http://www.kerisys.com/pages/download/software/>

You currently have the option to operate in either of the above listed modes via firmware. Full configuration flexibility will be available in a future release.

# NXT-WI Wiegand-Only Reader Interface Module

## Installation Guide

---

### 3.1 Verifying RIM Configuration

The corresponding reader type and line control mode LEDs are illuminated during operation. Refer to the Drawing on page 1 for LED locations, and the Table on page 2 for LED definitions to confirm your configuration settings.

**Table 2: Reader Interface Module LED Guide**

LED	Indicator
D1	single wire LED control – red, green, amber, off
D2	dual wire LED control – red, green, amber, off
D5	Wiegand Reader enabled <i>LED slowly flashes</i>
D8	RS-485 Communication
D10	lit when set for 12 VDC reader power

### 4.0 Contact Keri Systems

Keri USA	Keri UK, Ireland, Europe
2305 Bering Drive San Jose, CA 95131	Unit 17 Park Farm Industrial Estate Ermine Street Buntingford Herts SG9 9AZ UK
Telephone: (800) 260-5265 (408) 435-8400	Telephone: +44 (0) 1763 273 243
Fax: (408) 577-1792	Fax: + 44 (0) 1763 274 106
Web: <a href="http://www.kerisys.com">www.kerisys.com</a>	Web: <a href="http://www.kerisystems.co.uk">www.kerisystems.co.uk</a>
E-mail: <a href="mailto:sales@kerisys.com">sales@kerisys.com</a> <a href="mailto:techsupport@kerisys.com">techsupport@kerisys.com</a>	E-mail: <a href="mailto:sales@kerisystems.co.uk">sales@kerisystems.co.uk</a> <a href="mailto:tech-support@kerisystems.co.uk">tech-support@kerisystems.co.uk</a>

end of document