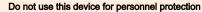


Quick Start Guide

Radar-Based Sensors for Detection and Measurement of Moving and Stationary Targets. Patent pending.

This guide is designed to help you set up and install the R-GAGE K50R sensor. For complete information on programming, performance, troubleshooting, dimensions, and accessories, please refer to the Instruction Manual at www.bannerengineering.com. Search for part number 226219 to view the Instruction Manual. Use of this document assumes familiarity with pertinent industry standards and practices.

WARNING:



- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure
 or malfunction can cause either an energized (on) or de-energized (off) output condition.

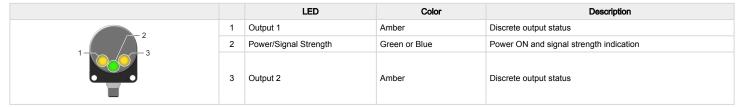
WARNING:

- N'utilisez pas ce dispositif pour la protection du personnel.
- L'utilisation de ce dispositif pour la protection du personnel pourrait entraîner des blessures graves ou mortelles.
- · Ce dispositif n'est pas équipé du circuit redondant d'autodiagnostic nécessaire pour être utilisé dans des applications de protection du
- personnel. Une panne ou un dysfonctionnement du dispositif peut entraîner l'activation ou la désactivation de la sortie.

IMPORTANT: To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons.

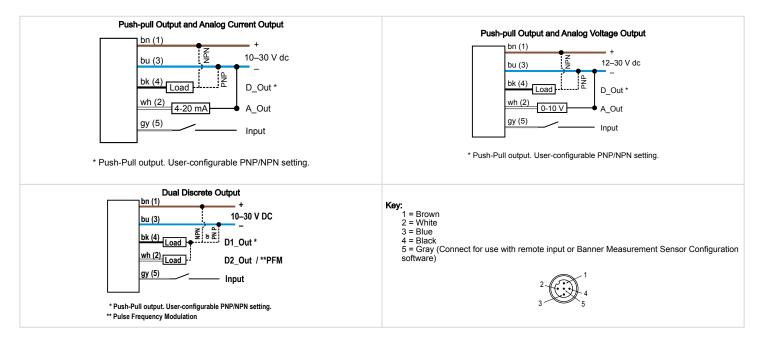
Features and Indicators

K50R Standard—Features



Wiring

Quick disconnect wiring diagrams are functionally identical.



Banner Measurement Sensor Software



Specifications

For additional specifications, see the Instruction Manual, p/n 226219.

Range

The sensor can detect an object at the following ranges, depending on the material of the target. K50Rxx-8060 Models: Standard Mode: 0.1 m to 2.5 m (3.9 in to 8.2 ft) Faster Response: 0.15 m to 1.0 m (6.0 in to 3.3 ft) High Power Mode: 0.5 m to 3.0 m (19.7 in to 9.8 ft)

K50Rxx-4030 Models 0.05 m to 5.0 m (2 in to 16.4 ft)

Supply Voltage (Vcc)

Analog Voltage models: 12 V DC to 30 V DC Analog Current and Dual Discrete models: 10 V DC to 30 V DC Use only with a suitable Class 2 power supply (UL) or

Limited Power Supply (CE)

Power and Current Consumption, exclusive of load

Standard models:

Power consumption: <1.0 W Current consumption: <35 mA at 24 V

Pro models: Power consumption: <1.5 W

Current consumption: <55 mA at 24 V

Operating Temperature

Standard models: -40 °C to +60 °C (-40 °F to +140 °F) Pro models: -40 °C to +50 °C (-40 °F to +122 °F)



K50Rxx-8060 models: US, Canada, Europe, UK, Australia/New Zealand, and Taiwan K50Rxx-4030 models: US, Europe, UK

Certifications



Meets IEC 61010-1 Impact Code IK07



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



🚷 IO-Link®

K50Rxx-8060 models: Contains FCC ID: 2AQ6KA1001 K50Rxx-4030 models: Contains FCC ID: 2AQ6KA1201 K50Rxx-8060 models: Contains IC: 24388-A111

Representative Beam Pattern





Refer to beam pattern charts in product manual for typical beam patterns on representative targets

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

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