

K50RF-4030-LDQ

K50R SERIES RADAR SENSORS



K50R R-GAGE Series Radar Sensor  
Range 5.0 m; 40x30 degree FOV; Flush Mount  
Input: 10-30 V dc; Output: 2 NPN/PNP Configurable  
5-pin M12 Integral QD  
Part Number: 815567

CERTIFICATIONS



SPECIFICATIONS

|                               |                        |
|-------------------------------|------------------------|
| Power                         | DC                     |
| PFM Output                    | Yes                    |
| Sensing Beam                  | Radar                  |
| Jam Detection                 | No                     |
| Operating Frequency           | 60 GHz                 |
| PC Configurable               | Yes                    |
| IP Rating                     | IP67                   |
| FOV Type                      | Fixed                  |
| Supply Voltage                | 10-30 V dc             |
| Item Status                   | RELEASED               |
| Sensing Mode (General)        | Proximity              |
| Sensing Mode (Detailed)       | Time of Flight         |
| Housing Style                 | Flat Pack              |
| Device Type                   | Sensor                 |
| Primary Housing Material      | ABS/Polycarbonate      |
| Input/Output                  | Discrete               |
| Radar Beam Pattern (H x V °)  | 40 x 30                |
| Connection                    | Integral QD            |
| Quick Disconnect Type         | M12                    |
| Max Sensing Distance (mm)     | 5000                   |
| Minimum Sensing Distance (mm) | 50                     |
| Number of Pins                | 5                      |
| Discrete (Switched) Outputs   | 2 NPN/PNP Configurable |
| Max Operating Temperature (C) | 60                     |
| Min Operating Temperature (C) | -40                    |
| Laser Control                 | No                     |
| Feature: Remote Teach         | Yes                    |

Offline (Contact Us)

|                                        |            |
|----------------------------------------|------------|
| Feature: Washdown Rated                | No         |
| Feature: Clear Object Detection        | Yes        |
| Feature: Timing (Hold/Delay)           | Yes        |
| Feature: Chemical Resistant            | No         |
| Feature: Pump-in/ Pump-out             | No         |
| Feature: Quick Disconnect              | Yes        |
| Feature: Health/Marginal Signal Output | No         |
| Application: Ultrasonic                | No         |
| Common Ethernet Protocol               | No         |
| IO Link                                | No         |
| RS-232                                 | No         |
| Wireless                               | No         |
| Cert: US                               | Yes        |
| Cert: Australia/New Zealand            | Yes        |
| Cert: European                         | Yes        |
| Cert: Singapore                        | Yes        |
| Cert: Taiwan                           | Yes        |
| EPLAN Status                           | Published  |
| EPLAN Original Sent Date               | 02/14/2025 |

COMPATIBLE PRODUCTS

PRO CONVERTER CABLE

|                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRO-KIT</b><br><br>For Discrete Pro Lights and select Sensor products<br>Kit includes config cable, splitter, and power supply<br>Required for initial software configuration only |
| <b>BC-M12F5-22-15</b><br><br>Cordset: Single-Ended M12<br>5-pin Straight Female Connector<br>15 m (49.2 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                 |
| <b>BC-M12F5-22-2</b><br><br>Cordset: Single-Ended M12<br>5-pin Straight Female Connector<br>2 m (6.56 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                   |
| <b>BC-M12F5-22-5</b><br><br>Cordset: Single-Ended M12<br>5-pin Straight Female Connector<br>5 m (16.4 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                   |
| <b>BC-M12F5-22-8</b><br><br>Cordset: Single-Ended M12<br>5-pin Straight Female Connector<br>8 m (26.25 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                  |

Offline (Contact Us)

|  |                                                                                                                                                                                                   |
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|  | <b>BC-M12F5-M12M5-22-2</b><br><br>Cordset: Double-Ended M12<br>5-pin Straight Female; 5-pin Straight Male Connectors<br>2 m (6.56 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nuts  |
|  | <b>BC-M12F5-M12M5-22-5</b><br><br>Cordset: Double-Ended M12<br>5-pin Straight Female; 5-pin Straight Male Connectors<br>5 m (16.4 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nuts  |
|  | <b>BC-M12F5-M12M5-22-8</b><br><br>Cordset: Double-Ended M12<br>5-pin Straight Female; 5-pin Straight Male Connectors<br>8 m (26.25 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nuts |
|  | <b>BC-M12F5A-22-2</b><br><br>Cordset: Single-Ended M12<br>5-pin Right-Angle Female Connector<br>2 m (6.56 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                           |
|  | <b>BC-M12F5A-22-5</b><br><br>Cordset: Single-Ended M12<br>5-pin Right-Angle Female Connector<br>5 m (16.4 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                           |
|  | <b>BC-M12F5A-22-8</b><br><br>Cordset: Single-Ended M12<br>5-pin Right-Angle Female Connector<br>8 m (26.25 ft) 5x22 Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                          |
|  | <b>MQDC-506-USB</b><br><br>Converter Cable USB to Banner 1-WIRE<br>5-pin M12<br>For Banner Pro Series<br>0.7 m USB Cable; 1 m M12 Cable                                                           |
|  | <b>MQDEC2-550RA</b><br><br>Cordset: Single-Ended M12<br>5-pin Right-Angle Female Connector<br>15 m 5x22 Shielded Black PVC Jacket<br>Nickel-Plated Brass Coupling Nut                             |

## SPLITTERS

|  |                                                                                                                                                                                                                                                            |
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|  | <b>CSB-M1251M1251B</b><br><br>M12 QD Splitter Cable<br>5-pin Straight male M12 0.3 m (1 ft) Trunk<br>5-pin Straight Female M12 0.3 m (1 ft) Branch 1<br>5-pin Straight Female M12 0.3 m (1 ft) Branch 2<br>Black Jacket; Nickel-Plated Brass Coupling Nuts |
|  | <b>SMBAMSK50R</b><br><br>Bracket: Adjustable Mounting Bracket<br>304 Stainless; 14-Gauge<br>Used with K50R, K50Z                                                                                                                                           |
|  | <b>SMBK50RA</b><br><br>Bracket: Right-Angle Mount<br>304 Stainless; 14-Gauge<br>Used with K50R, K50Z                                                                                                                                                       |