

Q4XTKLAF600-Q8

Q4X SERIES RUGGED LASER DISTANCE SENSOR













Q4X Series: Laser Adjustable Field Range 600 mm; Input 10-30 V dc

Output: 1 PNP/NPN with IO-Link Communication; 1

PNP

Connection: Euro M12 4-pin Integral Connector

Threaded Barrel Housing

Part Number: 801918

CERTIFICATIONS





SPECIFICATIONS

| Sensing Mode (General) | Proximity |
|--|---|
| Sensing Mode (Detailed) | Background/Foreground Suppression |
| Housing Style | Rectangular w/M18 Mount |
| Primary Housing Material | Stainless Steel |
| Laser Classification | Class 1 |
| Input/Output | Discrete |
| Indicator | Display; LED(s) |
| Analog Resolution/Discrete Repeatability | 25 mm to 100 mm: +/-0.5 mm; 100 mm to 600 mm: +/- 0.5% of range |

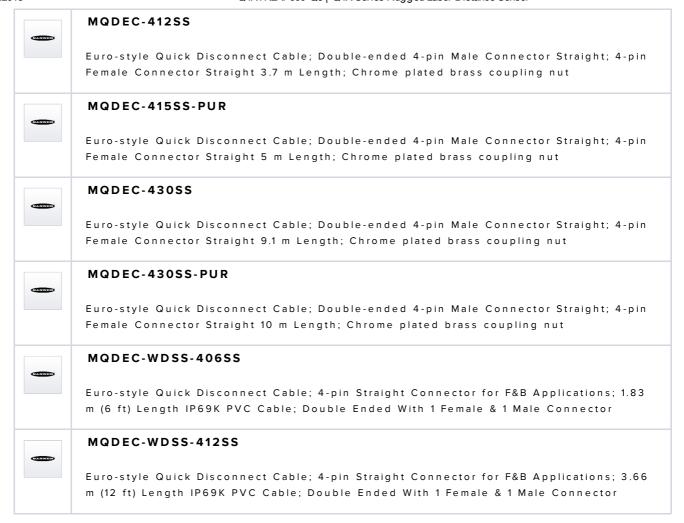
| Max Sensing Distance (mm) | 600 |
|--|--|
| Minimum Sensing Distance (mm) | 25 |
| Sensing Beam | Visible Red Laser |
| Power Supply | 10-30 V dc |
| Delay at Power-up (ms) | 1500 |
| Sensing Beam Wavelength (nm) | 655 |
| Adjustments | Push Button; Remote Teach |
| Temperature Effect (mm/°C) | +/- 0.05 mm/°C from 25 to 125 mm, +/- 0.35 mm/°C at 300 mm, +/- 0.85 mm/°C at 600 mm |
| Connection | Integral QD |
| QD Type/Cable Length | M12 (Euro) requires mating cordset |
| Number of Pins | 4 |
| Vibration | MIL-STD-202G req. Method 201A (vibration:10 to 60Hz max., double amplitude 0.06", max acc. 10G). |
| Mechanical Shock | MIL-STD-202G, Meth. 213B, Cond. I (100G 6x along X, Y & Z axes, 18 total shocks) w/ sensor operating |
| Output Saturation Voltage PNP Outputs | <2 V |
| Max Discrete (Switched) Output (mA) | 100 |
| Discrete (Switched) Outputs | 1 NPN/PNP Configurable; 1 PNP |
| Output Protection | Protected against continuous overload and short circuit |
| IP Rating | IP67; IP68; IP69K |
| Storage Temperature (°C) | -25 to 75 |
| Max Operating Temperature (°C) | 50 |
| Min Operating Temperature (°C) | -10 |
| Max Op. Relative Humidity Non-Condensing (%) | 95 at 55°C |
| Window Material | Acrylic |
| Warm-up Time (minutes) | 10 |
| Minimum Response Time (ms) | 2 |
| | |

| Spot Size (@ Reference Distance) | 1.9 mm x 1.0 mm @ 600 mm |
|---|---|
| Barrel Diameter (mm) | 18 |
| Minimum Window Size (mm) | 0.4 |
| Discrete Output Hysteresis (mm) | Automatically adjusted |
| Laser Control | Ye s |
| Alarm Output (mA) | 100 |
| Max Ambient Light (Lux) | 5000 |
| Max Off-state Leakage Current (μΑ) | PNP: <50 @ 30 V dc; Push/Pull: N/A |
| Power/Current Consumption (exclusive of load) | < 700 mW |
| Supply Protection Circuitry | Protected against reverse polarity and transient overvoltages |
| Feature: Remote Teach | Ye s |
| Feature: Washdown Rated | Ye s |
| Feature: Clear Object Detection | Ye s |
| Feature: Timing (Hold/Delay) | Ye s |
| Feature: Ecolab Certified | Ye s |
| Feature: Chemical Resistant | Ye s |
| IO Link | Ye s |
| Wireless | No |

RECOMMENDED PRODUCTS

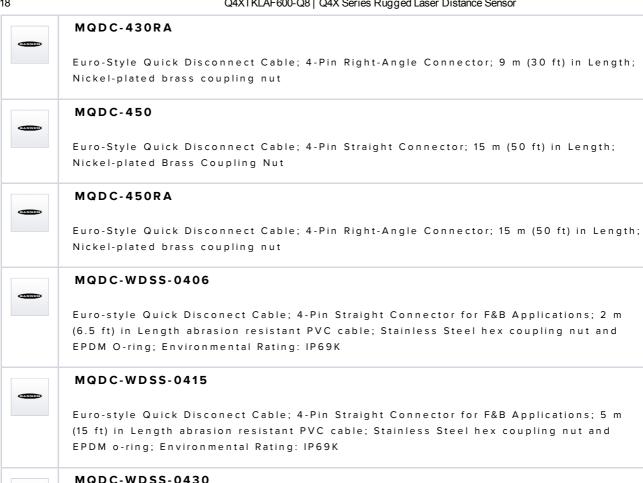
DOUBLE ENDED CORDSETS

| | MQDEC-406SS |
|--------|---|
| | Euro-style Quick Disconnect Cable; 4-pin Straight Connector; 2 m (6.5 ft) Length; Double Ended With 1 Female & 1 Male Connector |
| | MODEO AGGG BUD |
| GANNER | MQDEC-406SS-PUR |

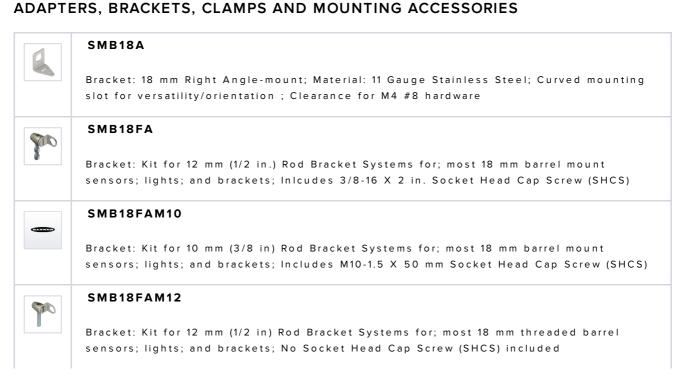


SINGLE ENDED CORDSETS





EPDM o-ring; Environmental Rating: IP69K



Euro-style Quick Disconect Cable; 4-Pin Straight Connector for F&B Applications; 9 m (30 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and



SMBQ4XFA

Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)



SMBQ4XFAM10

Bracket: Kit for 10 mm (3/8 in) Rod Bracket Systems; for: Q4X, QS18, QS30; Includes M10-1.5 X 50 mm; Socket Head Cap Screw (SHCS)



SMBQ4XFAM12

Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; No Socket Head Cap Screw (SHCS) included

REFERENCE TARGET



ACCESSORIES





Banner Engineering Corp. | 9714 Tenth Avenue North | Minneapolis, MN 55441 | United States of America