



# Q12AB6FF15Q

## Q12 SERIES MINIATURE SELF-CONTAINED SENSOR



WORLD-BEAM Q12 Series: Fixed-Field  
Range: 15 mm; Input: 10-30V dc  
Output: LO (Light Operate) Bipolar: 1 NPN; 1 PNP  
Pico (M8) Threaded Pigtail QD  
Part Number: 72105

### CERTIFICATIONS



### SPECIFICATIONS

|                             |                                |
|-----------------------------|--------------------------------|
| Sensing Mode (General)      | Proximity                      |
| Sensing Mode (Detailed)     | Background Suppression (Fixed) |
| Housing Style               | Rectangular                    |
| Primary Housing Material    | Thermoplastic                  |
| Input/Output                | Discrete                       |
| Max Sensing Range (mm)      | 15                             |
| Outputs                     | Bipolar (NPN & PNP)            |
| Power Supply/Supply Voltage | 10-30 V dc                     |
| Connection                  | Pigtail QD                     |
| Quick Disconnect Type       | M8 (Pico)                      |
| Sensing Beam                | Visible Red LED                |
| Operation                   | Light Operate                  |

|                                     |               |
|-------------------------------------|---------------|
| Max Op. Temp. (°C)                  | 55            |
| Min Op. Temp. (°C)                  | -20           |
| Output response time (ms)           | 0.7           |
| Special Feature: Intrinsically Safe | No            |
| Special Feature: Remote Teach       | No            |
| Special Feature: Water Detection    | No            |
| IP Rating                           | IP67          |
| Sensing Beam Wavelength             | 640           |
| Delay at Power-up (ms)              | 120           |
| Repeatability (µs)                  | 175           |
| Number of Pins                      | 4             |
| Max Op. Relative Humidity [%]       | 95% @ 50°C    |
| Lens Material                       | Polycarbonate |
| Adjustments                         | N/A           |
| Barrel Diameter (mm)                | N/A           |
| Indicator                           | LEDs          |
| Opposed Mode Emitter/Receiver       | N/A           |
| Feature: Timing (Hold/Delay)        | No            |
| Feature: Encapsulated               | No            |
| Feature: Hazardous Area             | No            |
| Feature: Audible                    | No            |

RECOMMENDED PRODUCTS

SINGLE ENDED CORDSETS

|                                                                                     |                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>MQDC-406</b></p> <p>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 2 m (6.5 ft) in Length; Nickel-plated Brass Coupling Nut</p> |
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|     | <b>MQDC-406RA</b><br><br>Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 2 m (6.5 ft) in Length; Nickel-plated brass coupling nut                |
|    | <b>MQDC-415</b><br><br>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 5 m (15 ft) in Length; Nickel-plated Brass Coupling Nut.                     |
|    | <b>MQDC-415RA</b><br><br>Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 5 m (15 ft) in Length; Nickel-plated brass coupling nut                 |
|    | <b>MQDC-430</b><br><br>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 9 m (30 ft) in Length; Nickel-plated Brass Coupling Nut                      |
|    | <b>MQDC-430RA</b><br><br>Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 9 m (30 ft) in Length; Nickel-plated brass coupling nut                 |
|   | <b>MQDC-450</b><br><br>Euro-Style Quick Disconnect Cable; 4-Pin Straight Connector; 15 m (50 ft) in Length; Nickel-plated Brass Coupling Nut                     |
|  | <b>MQDC-450RA</b><br><br>Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 15 m (50 ft) in Length; Nickel-plated brass coupling nut                |
|  | <b>PKG4M-2</b><br><br>Threaded Pico-Style Quick Disconnect Cable With ; Straight 4-Pin Connector; 2 m (6.5 ft) in Length; Threaded coupling                      |
|  | <b>PKG4M-5</b><br><br>Threaded Pico-Style Quick Disconnect Cable With; Straight 4-Pin 150 mm (6 Inch) Pigtail Connector; 5m (16 ft) in Length; Threaded Coupling |
|  | <b>PKG4M-9</b><br><br>Threaded Pico-Style Quick Disconnect Cable With ; Straight 4-Pin Connector; 9 m (30 ft) in Length; Threaded coupling                       |
|  | <b>PKW5M-2</b><br><br>Pico-Style Quick Disconnect Cable; 5-Pin Right Angle Connector; 2 m (6.5 ft) in Length; Chrome plated coupling nut                         |
|  | <b>PKW5M-9</b><br><br>Pico-Style Quick Disconnect Cable; 5-Pin Right Angle Female Connector; 9 m (30 ft) in Length; M8 Thread coupling                           |

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

|                                                                                   |                                                                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | <b>SMBQ12A</b><br><br>Bracket: Right-Angle; Stainless Steel; Used with Q12                             |
|  | <b>SMBQ12T</b><br><br>Bracket: Right-Angle Mount; Stainless Steel: 300 Series; 20 Gauge; Used with Q12 |
|  | <b>SMBQ12S</b><br><br>Bracket: Side Mount; Stainless Steel; Used with Q12                              |

## APERTURES

|                                                                                     |                                                                                                                                                         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>APKQ12</b><br><br>APKQ12 Q12 APERTURE KIT; KIT CONTAINS 2 OF EACH APQ12 APERTURE: -0.5 -1 ; -1.5 -2 -0.5H -1H -0.5V -1V -4S; 18 UNITS TOTAL - QTY 18 |
|    | <b>APQ12-.5</b><br><br>APQ12-.5 Q12 APERTURE BULK KIT .5MM ROUND - QTY 10                                                                               |
|  | <b>APQ12-.5H</b><br><br>APQ12-.5H Q12 APERTURE BULK KIT .5MM HOR SLOT - QTY 10                                                                          |
|  | <b>APQ12-.5V</b><br><br>APQ12-.5V Q12 APERTURE BULK KIT .5MM VER SLOT - QTY 10                                                                          |
|  | <b>APQ12-1</b><br><br>APQ12-1 Q12 APERTURE BULK KIT 1MM ROUND - QTY 10                                                                                  |
|  | <b>APQ12-1.5</b><br><br>APQ12-1.5 Q12 APERTURE BULK KIT 1.5MM ROUND - QTY 10                                                                            |
|  | <b>APQ12-1H</b><br><br>APQ12-1H Q12 APERTURE BULK KIT 1MM HOR SLOT - QTY 10                                                                             |
|  | <b>APQ12-1V</b><br><br>APQ12-1V Q12 APERTURE BULK KIT 1MM VER SLOT - QTY 10                                                                             |
|  | <b>APQ12-2</b><br><br>APQ12-2 Q12 APERTURE BULK KIT 2MM ROUND - QTY 10                                                                                  |
|  | <b>APQ12-4S</b><br><br>APQ12-4S Q12 APERTURE BULK KIT 4MM SQUARE - QTY 10                                                                               |



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