



## Q12RB6FF50Q

### ► Q12 SERIES MINIATURE SELF-CONTAINED SENSOR



WORLD-BEAM Q12 Series: Fixed-Field

Range: 50 mm Cutoff; Input: 10-30V dc

Output: DO (Dark Operate) Bipolar: 1 NPN; 1 PNP

Pico (M8) Threaded Pigtail QD

Part Number: 72120

#### CERTIFICATIONS



#### SPECIFICATIONS

<b>Sensing Mode (General)</b>	Proximity
<b>Sensing Mode (Detailed)</b>	Background Suppression (Fixed)
<b>Housing Style</b>	Rectangular
<b>Primary Housing Material</b>	Thermoplastic
<b>Input/Output</b>	Discrete
<b>Max Sensing Range (mm)</b>	50
<b>Outputs</b>	Bipolar (NPN & PNP)
<b>Power Supply/Supply Voltage</b>	10-30 V dc
<b>Connection</b>	Pigtail QD
<b>Quick Disconnect Type</b>	M8 (Pico)
<b>Sensing Beam</b>	Visible Red LED
<b>Operation</b>	Dark Operate

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




## RECOMMENDED PRODUCTS

### SINGLE ENDED CORDSETS

	<b>MQDC-406</b>
Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 2 m (6.5 ft) in Length; Nickel-plated Brass Coupling Nut	

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

**ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES**

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

**APERTURES**

	<p><b>APKQ12</b></p> <p>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</p>
	<p><b>APQ12-.5</b></p> <p>APQ12-.5 Q12 APERTURE BULK KIT .5MM ROUND - QTY 10</p>
	<p><b>APQ12-.5H</b></p> <p>APQ12-.5H Q12 APERTURE BULK KIT .5MM HOR SLOT - QTY 10</p>
	<p><b>APQ12-.5V</b></p> <p>APQ12-.5V Q12 APERTURE BULK KIT .5MM VER SLOT - QTY 10</p>
	<p><b>APQ12-1</b></p> <p>APQ12-1 Q12 APERTURE BULK KIT 1MM ROUND - QTY 10</p>
	<p><b>APQ12-1.5</b></p> <p>APQ12-1.5 Q12 APERTURE BULK KIT 1.5MM ROUND - QTY 10</p>
	<p><b>APQ12-1H</b></p> <p>APQ12-1H Q12 APERTURE BULK KIT 1MM HOR SLOT - QTY 10</p>
	<p><b>APQ12-1V</b></p> <p>APQ12-1V Q12 APERTURE BULK KIT 1MM VER SLOT - QTY 10</p>
	<p><b>APQ12-2</b></p> <p>APQ12-2 Q12 APERTURE BULK KIT 2MM ROUND - QTY 10</p>
	<p><b>APQ12-4S</b></p> <p>APQ12-4S Q12 APERTURE BULK KIT 4MM SQUARE - QTY 10</p>



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