



# Q20NLPQMA

## ► Q20 SERIES INDUSTRY STANDARD GLOBAL HOUSING



WORLD-BEAM Q20 Series: Polarized Retro

Range: 4 m; Input 10-30V dc

Output: Complementary Solid State NPN

6 in (150 mm) PUR pigtail Euro-style QD

Part Number: 78172

### CERTIFICATIONS



### SPECIFICATIONS

<b>Sensing Mode (General)</b>	Retroreflective
<b>Sensing Mode (Detailed)</b>	Polarized
<b>Housing Style</b>	Rectangular
<b>Primary Housing Material</b>	Thermoplastic
<b>Input/Output</b>	Discrete
<b>Max Sensing Range (mm)</b>	4000
<b>Outputs</b>	NPN
<b>Power Supply/Supply Voltage</b>	10-30 V dc
<b>Connection</b>	Pigtail PUR QD
<b>Quick Disconnect Type</b>	M12 (Euro)
<b>Sensing Beam</b>	Visible Red LED
<b>Operation</b>	Light/Dark Operate

<b>Max Op. Temp. (°C)</b>	60
<b>Min Op. Temp. (°C)</b>	-20
<b>Output response time (ms)</b>	0.8
<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>	645
<b>Delay at Power-up (ms)</b>	100
<b>Repeatability (µs)</b>	155
<b>Number of Pins</b>	4
<b>NEMA Rating</b>	NEMA 6
<b>Max Op. Relative Humidity [%]</b>	95% @ 50°C
<b>Adjustments</b>	Potentiometer
<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-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-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-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-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-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>PKG4-2</b></p> <p>Pico-style Quick Disconnect Cable; 4 Pin Straight Connector; 2 m (6.5 ft) in Length; POM snap-lock coupling</p>
	<p><b>PKW4Z-2</b></p> <p>Pico-style Quick Disconnect Cable; 4 Pin Right Angle Connector; 2 m (6.5 ft) in Length; POM snap-lock coupling</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-9</b></p> <p>Threaded Pico-Style Quick Disconnect Cable With ; Straight 4-Pin Connector; 9 m (30 ft) in Length; Threaded coupling</p>

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES




	<p><b>SMBQ20LV</b></p> <p>Bracket: Right-angle bracket; +/- 10 deg tip; Stainless Steel; Used with Q20</p>
	<p><b>SMBQ20L</b></p> <p>SMBQ20L MOUNTING BRACKET ASSY</p>
	<p><b>SMBQ20U</b></p> <p>Bracket: Protective bracket; +/- 22.5 deg swivel; Stainless Steel; Used with Q20</p>

	<b>SMBQ20H</b>
	SMBQ20H MOUNTING BRACKET ASSY

## APERTURES

	<b>APQ20-0.5</b>
	APQ20-0.5 - QTY 2
	<b>APQ20-1</b>
	APQ20-1 - QTY 2
	<b>APQ20-2</b>
	APQ20-2 - QTY 2
	<b>APQ20-0.5V</b>
	APQ20-0.5V - QTY 2
	<b>APQ20-1V</b>
	APQ20-1V - QTY 2
	<b>APQ20-2V</b>
	APQ20-2V - QTY 2
	<b>APK-Q20</b>
	APK-Q20 - QTY 12

## RETROREFLECTIVE TARGET

	<b>BRT-84</b>
	BRT-84
	<b>BRT-2X2</b>
	Retroreflective Target: Rectangular -51x51mm; Reflectivity Factor: 1.0; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting
	<b>BRT-92X92C</b>
	Retroreflective Target: Rectangular -92x92mm; Reflectivity Factor: 3.0; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting

## ACCESSORIES



**PFQ20-V**

PFQ20-V FILTER PAIR Q20 VERT



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