



## M18-3VNLP-Q8

### ► M18 SERIES 18MM METAL BARREL-MOUNT SENSOR



M18-3 Series: Nickel-Plated Brass: Polarized Retroreflective

Range: 6 m; Input: 10-30 V dc

Outputs: Complementary NPN

Connection: Euro M12 4-pin Integral Connector

Part Number: 88161

#### CERTIFICATIONS



#### SPECIFICATIONS

<b>Sensing Mode (General)</b>	Retroreflective
<b>Sensing Mode (Detailed)</b>	Polarized
<b>Housing Style</b>	Barrel
<b>Primary Housing Material</b>	Nickel-Plated Brass
<b>Input/Output</b>	Discrete
<b>Max Sensing Range (mm)</b>	6000
<b>Outputs</b>	NPN
<b>Power Supply/Supply Voltage</b>	10-30 V dc
<b>Connection</b>	Integral 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>	70
<b>Min Op. Temp. (°C)</b>	-40
<b>Output response time (ms)</b>	1.5
<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, IP69K
<b>Sensing Beam Wavelength</b>	624
<b>Delay at Power-up (ms)</b>	100
<b>Repeatability (µs)</b>	100
<b>Number of Pins</b>	4
<b>NEMA Rating</b>	N/A
<b>Max Op. Relative Humidity [%]</b>	95% @ 50°C
<b>Lens Material</b>	Acrylic
<b>Adjustments</b>	N/A
<b>Barrel Diameter (mm)</b>	18
<b>Indicator</b>	LEDs
<b>Opposed Mode Emitter/Receiver</b>	N/A
<b>Feature: Washdown Rated</b>	Yes
<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

	<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>
	<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-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-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>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>MQDC-WDSS-0406</b></p> <p>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector for F&amp;B Applications; 2 m (6.5 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and EPDM O-ring; Environmental Rating: IP69K</p>
	<p><b>MQDC-WDSS-0415</b></p> <p>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector for F&amp;B Applications; 5 m (15 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and EPDM o-ring; Environmental Rating: IP69K</p>
	<p><b>MQDC-WDSS-0430</b></p> <p>Euro-style Quick Disconnect Cable; 4-Pin Straight Connector for F&amp;B Applications; 9 m (30 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and EPDM o-ring; Environmental Rating: IP69K</p>

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

	<p><b>SMB18SF</b></p> <p>Bracket: 18 mm Swivel; Material: Black VALOX; Mounting Flange; Swivel Locking Hardware Included</p>
	<p><b>SMB18A</b></p> <p>Bracket: 18 mm Right Angle-mount; Material: 11 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M4 #8 hardware</p>
	<p><b>SMBS18-2-1</b></p> <p>Accessory: for Mounting Bracket; Glass filled PBT flush mount flange nut; Use with S18-2 series barrel sensors; Package Quantity = 1</p>
	<p><b>SMB18FA</b></p> <p>Bracket: Kit for 12 mm (1/2 in.) Rod Bracket Systems for; most 18 mm barrel mount sensors; lights; and brackets; Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)</p>
	<p><b>SMB18FAM10</b></p> <p>Bracket: Kit for 10 mm (3/8 in) Rod Bracket Systems for; most 18 mm barrel mount sensors; lights; and brackets; Includes M10-1.5 X 50 mm Socket Head Cap Screw (SHCS)</p>
	<p><b>SMB18FAM12</b></p> <p>Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems for; most 18 mm threaded barrel sensors; lights; and brackets; No Socket Head Cap Screw (SHCS) included</p>

## RETROREFLECTIVE TAPE

	<p><b>BRT-THG-2-100</b></p> <p>Retroreflective Tape: 50mm by 2.5m long; Reflectivity Factor: 0.7; Max. Temp.= 60 degrees C; Adhesive Back for mounting (.125 meters squared)</p>
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## RETROREFLECTIVE TARGET

	<p><b>BRT-2X2</b></p> <p>Retroreflective Target: Rectangular -51x51mm; Reflectivity Factor: 1.0; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting</p>
	<p><b>BRT-84X84A</b></p> <p>BRT-84X84A 84MM SQUARE REFLECTOR</p>
	<p><b>BRT-40X19A</b></p> <p>BRT-40X19A</p>

	<b>BRT-60X40C</b>
	Retroreflective Target: Rectangular -60x40mm; Reflectivity Factor: 1.4; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting
	<b>BRT-84</b>
	BRT-84



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