



LM150KIQP

LM SERIES PRECISION MEASUREMENT SENSOR



Laser Displacement Sensor

Range: 50-150 mm Input: 10-30 V dc; Outputs:

Analog:4-20 mA

Discrete: Push/Pull, IO-Link

Quick-Disconnect Pigtail

Part Number: 803940

CERTIFICATIONS



SPECIFICATIONS

Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Triangulation
Housing Style	Rectangular
Primary Housing Material	Stainless Steel
Laser Classification	Class 2
Input/Output	Analog & Discrete
Indicator	LED(s)
Analog Output Configuration	4-20 mA
Analog Resolution	0.001 mm

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Max Sensing Distance (mm)	150
Minimum Sensing Distance (mm)	50
Sensing Beam	Visible Red Laser
Power Supply	10-30 V dc
Delay at Power-up (ms)	2100
Sensing Beam Wavelength (nm)	655
Adjustments	Remote Teach
Temperature Effect (mm/°C)	+/- 0.008 mm/°C
Connection	Pigtail QD
QD Type/Cable Length	M12 (Euro) requires mating cordset
Number of Pins	5
Vibration	IEC 60947-5-2 (vibration:10 to 60Hz max., double amplitude 0.06", max acc. 10G).
Mechanical Shock	IEC 60947-5-2 requirements: 30G 11 ms duration, half sine wave
Output Saturation Voltage NPN Outputs	< 2.5 V at 50 mA
Output Saturation Voltage PNP Outputs	< 3 V at 50 mA
Analog Current Output Rating	500 Ω max
Max Discrete (Switched) Output (mA)	50
Discrete (Switched) Outputs	1 NPN/PNP Configurable
Output Protection	Protected against continuous overload and short circuit
IP Rating	IP67
Storage Temperature (°C)	-35 to 60
Max Operating Temperature (°C)	55
Min Operating Temperature (°C)	-10
Max Op. Relative Humidity Non-Condensing	90 at 55°C
Window Material	Acrylic


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Warm-up Time (minutes)	10
Minimum Response Time (ms)	0.5
Spot Size (@ Reference Distance)	0.77 mm x 0.31 mm @ 150 mm
Analog Linearity (mm)	50 mm to 120 mm: ± 0.060 mm, 120 mm to 150 mm: ± 0.070 mm
Minimum Window Size (mm)	0.1
Discrete Output Hysteresis (mm)	Automatically adjusted
Laser Control	Yes
Alarm Output (mA)	50
Max Ambient Light (Lux)	10000
Power/Current Consumption (exclusive of load)	< 62 mA at 24 V dc
Supply Protection Circuitry	Protected against reverse polarity and transient overvoltages
Feature: Remote Teach	Yes
Feature: Clear Object Detection	Yes
Feature: Timing (Hold/Delay)	Yes
Feature: Chemical Resistant	Yes
Feature: Pump-in/ Pump-out	No
Feature: Health/ Marginal Signal Output	Yes
IO Link	Yes
RS-232	No
RS-422	No
RS-485	No
SSI	No
Wireless	No
1-wire Serial Interface	No
Profibus	No



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RECOMMENDED PRODUCTS



DOUBLE ENDED CORDSETS

	<p>MQDEC3-506SS</p> <p>Euro-style Quick Disconnect Cable; Double-ended 5-pin Male Connector Straight; 5-pin Female Connector Straight 1.83 m Length; Chrome Plated Brass Coupling Nut; Shield Wire Grounded to Coupling Nut</p>
	<p>MQDEC3-515SS</p> <p>Euro-style Quick Disconnect Cable; Double-ended 5-pin Male Connector Straight; 5-pin Female Connector Straight 4.58 m Length; Chrome plated brass coupling nut; Shield wire grounded to coupling nut</p>
	<p>MQDEC3-530SS</p> <p>Euro-style Quick Disconnect Cable; Double-ended 5-pin Male Connector Straight; 5-pin Female Connector Straight 9.2 m Length; Chrome plated brass coupling nut; Shield wire grounded to coupling nut</p>

SINGLE ENDED CORDSETS

	<p>MQDEC2-506</p> <p>Euro-Style Quick Disconnect Cable with Shield; 5-Pin Straight Connector; 2 m (6.5 ft) in Length; Chrome-plated brass coupling nut</p>
	<p>MQDEC2-515</p> <p>Euro-Style Quick Disconnect Cable with Shield; 5-Pin Straight Connector; 5 m (15 ft) in Length; Chrome-plated brass coupling nut</p>
	<p>MQDEC2-530</p> <p>Euro-Style Quick Disconnect Cable with Shield; 5-Pin Straight Connector.C; 9 m (30 ft) in Length; Chrome-plated brass coupling nut</p>

ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

	<p>SMBLML1</p> <p>Bracket: LM Series Right-angle Bracket; 12 gauge Stainless Steel</p>
	<p>SMBLML2</p> <p>Bracket: LM Series Right-angle Bracket; 12 gauge Stainless Steel</p> <p>By accepting cookies, we give you the best experience throughout our site, including access to My Account, My Library, and My Wish List. To learn more, visit our privacy policy.</p>

REMOTE SENSOR DISPLAY (RSD)**RSD1QP**

RSD Series Remote Display; Single Sensor Support; Output: Depends on Sensor; Euro 5-pin
150 mm (6 in) PVC Pigtail



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