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BANNER

LM80KUQP

▶ **LM SERIES PRECISION MEASUREMENT SENSOR**

Laser Displacement Sensor

Range: 40-80 mm Input: 10-30 V dc; Outputs: Analog: 0-10 V

Discrete: Push/Pull, IO-Link

Quick-Disconnect Pigtail

Part Number: 810218

CERTIFICATIONS

SPECIFICATIONS

Max Measurement Range	<= 100 mm
Power	DC
Sensing Beam	Visible Red Laser
PC Configurable	No
Cable Length (m)	0.15
Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Triangulation
Housing Style	Rectangular

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Device Type	Sensor
Primary Housing Material	Stainless Steel
Laser Classification	Class 1
Input/Output	Analog & Discrete
Indicator	LED(s)
Analog Output Configuration	0-10 V
Connection	Pigtail QD
Analog Resolution/Discrete Repeatability	0.002
Quick Disconnect Type	M12 (Euro)
Max Sensing Distance (mm)	80
Minimum Sensing Distance (mm)	40
Power Supply	10-30 V dc
Delay at Power-up (ms)	2100
Sensing Beam Wavelength (nm)	655
Adjustments	Remote Teach
Temperature Effect (mm/°C)	+/- 0.006 mm/°C
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	1000 Ω min
Max Discrete (Switched) Output (mA)	50
Discrete (Switched) Outputs	1 NPN/PNP Configurable
Output Protection	Protected against continuous overload and short circuit

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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
Warm-up Time (minutes)	10
Minimum Response Time (ms)	0.5
Spot Size (@ Reference Distance)	0.37 mm x 0.21 mm @ 80 mm
Analog Linearity (mm)	40 mm to 70 mm: ± 0.02 mm, 70 mm to 80 mm: ± 0.03 mm
Minimum Window Size (mm)	0.024
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: Quick Disconnect	Yes
Feature: Health/ Marginal Signal Output	Yes
Common Ethernet Protocol	No
IO Link	Yes

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PROFINET	No
RS-232	No
RS-422	No
RS-485	No
SSI	No
Wireless	No
1-wire Serial Interface	No
Profibus	No

COMPATIBLE PRODUCTS

BRACKET

	SMBLML1	
	Bracket: LM Series Right-angle Bracket 12 gauge Stainless Steel	
	SMBLML2	
	Bracket: LM Series Right-angle Bracket 12 gauge Stainless Steel	

DOUBLE-ENDED CORDSETS

	MQDEC3-506SS
	Cordset A-Code M12 to A-Code M12 Double Ended 5-Pin Straight Male; 5-Pin Straight Female Connectors with Shield 1.83 m (6.00 ft) in Length Black PVC Jacket, Nickel Plated Brass Nut
	MQDEC3-515SS
	Cordset A-Code M12 to A-Code M12 Double Ended 5-Pin Straight Male; 5-Pin Straight Female Connectors with Shield 4.58 m (15.02 ft) in Length Black PVC Jacket, Nickel Plated Brass Nut

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MQDEC3-530SS

Cordset A-Code M12 to A-Code M12 Double Ended
5-Pin Straight Male; 5-Pin Straight Female Connectors with Shield
9.20 m (30.18 ft) in Length
Black PVC Jacket, Nickel Plated Brass Nut

SINGLE-ENDED CORDSETS

MQDEC2-506

Cordset A-Code M12 Single Ended
5-Pin Straight Female Connector with Shield
2.00 m (6.56 ft) in Length
Black PVC Jacket, Nickel Plated Brass Nut

MQDEC2-515

Cordset A-Code M12 Single Ended
5-Pin Straight Female Connector with Shield
5.00 m (16.40 ft) in Length
Black PVC Jacket, Nickel Plated Brass Nut

MQDEC2-530

Cordset A-Code M12 Single Ended
5-Pin Straight Female Connector with Shield
9.00 m (29.52 ft) in Length
Black PVC Jacket, Nickel Plated Brass Nut

REMOTE SENSOR DISPLAY

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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