

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

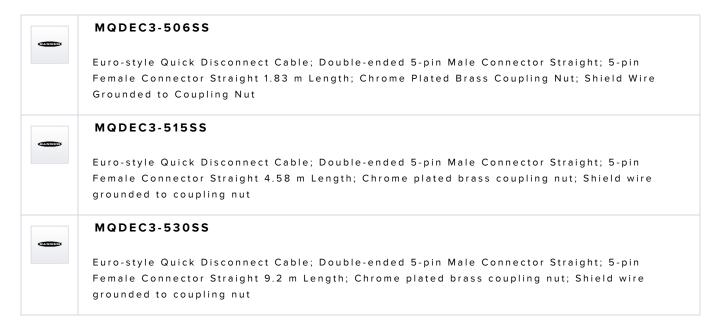
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Analog Output Configuration	4-20 mA	
Indicator	LED(s)	
Input/Output	Analog & Discrete	
Laser Classification	Class 2	
Primary Housing Material	Stainless Steel	
Housing Style	Rectangular	
Sensing Mode (Detailed)	Triangulation	
Sensing Mode (General)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

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
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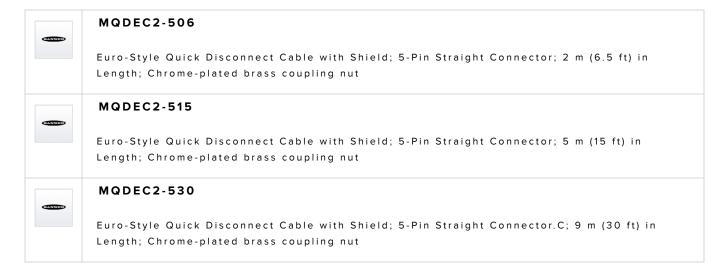
Warm-up Time (minutes)	10
Minimum Response Time (ms)	0.5
Spot Size (@ Reference Distance)	0.77 mm x 0.31 mm @ 150 mm
Analog Linearity (mm)	50 mm to 120 mm: ± 0.060 mm, 120 mm to 150 mm: ± 0.070 mm
Minimum Window Size (mm)	0.1
Discrete Output Hysteresis (mm)	Automatically adjusted
Laser Control	Yes
Alarm 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
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RECOMMENDED PRODUCTS

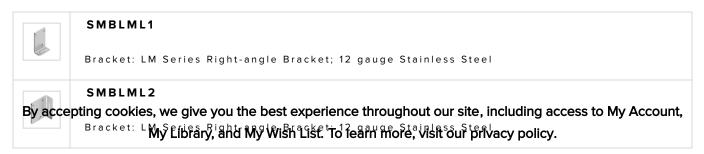
DOUBLE ENDED CORDSETS



SINGLE ENDED CORDSETS



ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES



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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