



Q4XFILAF110-Q8

► Q4X SERIES RUGGED LASER DISTANCE SENSOR



Q4X Series: Laser Adjustable Field

Range: 110 mm; Input 12-30 V dc

Output: Analog: 4-20 mA

Connection: Euro M12 5-Pin Integral Connector

Flush Mount Housing

Part Number: 97542

CERTIFICATIONS



SPECIFICATIONS

Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Background/Foreground Suppression
Housing Style	Rectangular
Primary Housing Material	Stainless Steel
Laser Classification	Class 1
Input/Output	Analog
Indicator	Display; LED(s)
Analog Output Configuration	4-20 mA
Analog Resolution/Discrete Repeatability	0.15 mm
Max Sensing Distance (mm)	110
Minimum Sensing Distance (mm)	35


Sensing Beam	Visible Red Laser
Power Supply	12-30 V dc
Delay at Power-up (ms)	750
Sensing Beam Wavelength (nm)	655
Adjustments	Push Button; Remote Teach
Temperature Effect (mm/°C)	+/- 0.05 mm/°C
Connection	Integral QD
QD Type/Cable Length	M12 (Euro) requires mating cordset
Number of Pins	5
Vibration	MIL-STD-202G req. Method 201A (vibration:10 to 60Hz max., double amplitude 0.06", max acc. 10G).
Mechanical Shock	MIL-STD-202G, Meth. 213B, Cond. I (100G 6x along X, Y & Z axes, 18 total shocks) w/ sensor operating
Analog Current Output Rating	1 kΩ max @24 V dc, max load resistance = $[(V_{cc}-4.5 V)/0.02 A] \Omega$
Output Protection	Protected against continuous overload and short circuit
IP Rating	IP67; IP68; IP69K
Storage Temperature (°C)	-25 to 75
Max Operating Temperature (°C)	50
Min Operating Temperature (°C)	-10
Max Op. Relative Humidity Non-Condensing (%)	95 at 55°C
Window Material	Acrylic
Warm-up Time (minutes)	10
Minimum Response Time (ms)	0.5
Spot Size (@ Reference Distance)	1.8 mm x 0.7 mm @ 100 mm
Analog Linearity (mm)	+/- 0.25 mm from 25 to 45 mm, 1.0 mm at 100 mm
Minimum Window Size (mm)	2
Laser Control	Yes

Alarm Output (mA)	100
Max Ambient Light (Lux)	5000
Power/Current Consumption (exclusive of load)	< 675 mW
Supply Protection Circuitry	Protected against reverse polarity and transient overvoltages
Feature: Remote Teach	Yes
Feature: Washdown Rated	Yes
Feature: Timing (Hold/Delay)	No
Feature: Ecolab Certified	Yes
Feature: Chemical Resistant	Yes
IO Link	No
Wireless	No





RECOMMENDED PRODUCTS

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

	MQDEC2-530RA
<p>Euro-Style Quick Disconnect Cable with Shield; 5-Pin Right-Angle Connector; 9 m (30 ft) in Length; Chrome-plated brass coupling nut</p>	

ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

	SMBQ4XFA
<p>Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)</p>	
	SMBQ4XFAM10
<p>Bracket: Kit for 10 mm (3/8 in) Rod Bracket Systems; for: Q4X, QS18, QS30; Includes M10-1.5 X 50 mm; Socket Head Cap Screw (SHCS)</p>	
	SMBQ4XFAM12
<p>Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; No Socket Head Cap Screw (SHCS) included</p>	
	SMB46L2
<p>Bracket: L; Material: 14 Gauge 316 Stainless Steel</p>	



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