BANNER

Q4XTKLAF300-Q8

▸ Q4X SERIES RUGGED LASER DISTANCE SENSOR

Q4X Series: Laser Adjustable Field

Range: 300 mm; Input 10-30 V dc

Output: 1 PNP/NPN with IO-Link Communication; 1 PNP

Connection: Euro M12 4-Pin Integral Connector

Part Number: 95301

CERTIFICATIONS

SPECIFICATIONS

Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Background/Foreground Suppression
Housing Style	Rectangular w/M18 Mount
Primary Housing Material	Stainless Steel
Laser Classification	Class 1
Input/Output	Discrete
Indicator	Display; LED(s)
Analog Resolution/Discrete Repeatability	25 mm to 50 mm: +/-0.5 mm; 50 mm to 300 mm: +/- 1% of range

Max Sensing Distance (mm)	300
Minimum Sensing Distance (mm)	25
Sensing Beam	Visible Red Laser
Power Supply	10-30 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 from 25 to 125 mm, +/- 0.35 mm/°C at 300 mm
Connection	Integral QD
QD Type/Cable Length	M12 (Euro) requires mating cordset
Number of Pins	4
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
Output Saturation Voltage PNP Outputs	<2 V
Max Discrete (Switched) Output (mA)	100
Discrete (Switched) Outputs	1 NPN/PNP Configurable; 1 PNP
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)	1.5

Spot Size (@ Reference Distance)	2.0 mm x 0.8 mm @ 300 mm
Barrel Diameter (mm)	18
Minimum Window Size (mm)	0.4
Discrete Output Hysteresis (mm)	Automatically adjusted
Laser Control	Yes
Alarm Output (mA)	100
Max Ambient Light (Lux)	5000
Max Off-state Leakage Current (µA)	PNP: <50 @ 30 V dc; Push/Pull: N/A
Power/Current Consumption (exclusive of load)	< 700 mW
Supply Protection Circuitry	Protected against reverse polarity and transient overvoltages
Feature: Remote Teach	Yes
Feature: Washdown Rated	Yes
Feature: Clear Object Detection	Yes
Feature: Timing (Hold/Delay)	Yes
Feature: Ecolab Certified	Yes
Feature: Chemical Resistant	Yes
IO Link	Yes
Wireless	No

RECOMMENDED PRODUCTS

DOUBLE ENDED CORDSETS

	MQDEC-406SS Euro-style Quick Disconnect Cable; 4-pin Straight Connector; 2 m (6.5 ft) Length; Double Ended With 1 Female & 1 Male Connector
	MQDEC-412SS Euro-style Quick Disconnect Cable; Double-ended 4-pin Male Connector Straight; 4-pin Female Connector Straight 3.7 m Length; Chrome plated brass coupling nut

MQDEC-430SS

Euro-style Quick Disconnect Cable; Double-ended 4-pin Male Connector Straight; 4-pin Female Connector Straight 9.1 m Length; Chrome plated brass coupling nut

MQDEC-406SS-PUR

Euro-style Quick Disconnect Cable; Double-ended 4-pin Male Connector Straight; 4-pin Female Connector Straight 2 m Length; Chrome plated brass coupling nut

MQDEC-415SS-PUR

Euro-style Quick Disconnect Cable; Double-ended 4-pin Male Connector Straight; 4-pin Female Connector Straight 5 m Length; Chrome plated brass coupling nut

MQDEC-430SS-PUR

Euro-style Quick Disconnect Cable; Double-ended 4-pin Male Connector Straight; 4-pin Female Connector Straight 10 m Length; Chrome plated brass coupling nut

MQDEC-WDSS-406SS

Euro-style Quick Disconnect Cable; 4-pin Straight Connector for F&B Applications; 1.83 m (6 ft) Length IP69K PVC Cable; Double Ended With 1 Female & 1 Male Connector

MQDEC-WDSS-412SS

Euro-style Quick Disconnect Cable; 4-pin Straight Connector for F&B Applications; 3.66 m (12 ft) Length IP69K PVC Cable; Double Ended With 1 Female & 1 Male Connector

SINGLE ENDED CORDSETS

MQDC-406

Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 2 m (6.5 ft) in Length; Nickel-plated Brass Coupling Nut

MQDC-415

Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 5 m (15 ft) in Length; Nickel-plated Brass Coupling Nut.

MQDC-430

Euro-style Quick Disconnect Cable; 4-Pin Straight Connector; 9 m (30 ft) in Length; Nickel-plated Brass Coupling Nut

MQDC-450

Euro-Style Quick Disconnect Cable; 4-Pin Straight Connector; 15 m (50 ft) in Length; Nickel-plated Brass Coupling Nut

MQDC-406RA

Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 2 m (6.5 ft) in Length; Nickel-plated brass coupling nut

MQDC-415RA

Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 5 m (15 ft) in Length; Nickel-plated brass coupling nut

MQDC-430RA

Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 9 m (30 ft) in Length; Nickel-plated brass coupling nut

MQDC-450RA

Euro-Style Quick Disconnect Cable; 4-Pin Right-Angle Connector; 15 m (50 ft) in Length; Nickel-plated brass coupling nut

MQDC-WDSS-0406

Euro-style Quick Disconect Cable; 4-Pin Straight Connector for F&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

MQDC-WDSS-0415

Euro-style Quick Disconect Cable; 4-Pin Straight Connector for F&B Applications; 5 m (15 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and EPDM o-ring; Environmental Rating: IP69K

MQDC-WDSS-0430

Euro-style Quick Disconect Cable; 4-Pin Straight Connector for F&B Applications; 9 m (30 ft) in Length abrasion resistant PVC cable; Stainless Steel hex coupling nut and EPDM o-ring; Environmental Rating: IP69K

ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

SMBQ4XFA

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)

SMBQ4XFAM10

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)

SMB18A

Bracket: 18 mm Right Angle-mount; Material: 11 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M4 #8 hardware

SMB18FA

Bracket: Kit for 12 mm (1/2 in.) Rod Bracket Systems for; most 18 mm barrel mount sensors; lights; and brackets; Inlcudes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)

	SMB18FAM10 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)
	SMB18FAM12 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
	SMBQ4XFAM12 Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; No Socket Head Cap Screw (SHCS) included

REFERENCE TARGET

	BRT-Q4X-60X18 Reflector; Q4X Clear Object Detection; Rectangular 60 mm X 18 mm
	BRT-Q4X-60X50 Reflector; Q4X Clear Object Detection; Rectangular 60 mm X 50 mm

ACCESSORIES

	APC-18 APC-18 AIR PURGE COLLAR
	APC-18P APC-18P AIR PURGE COLLAR DELRIN

BANNER

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