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Creating Safe Work Solutions During COVID-19

Q5XKLAF5000-Q8

▶ **Q5X SERIES HIGH POWER, MID RANGE PHOTOELECTRIC SENSOR**

Q5X Series: Laser Adjustable Field

Range: 50 to 5000 mm; Input 10-30 V dc

Output: 1 PNP/NPN with IO-Link; 1 PNP/NPN Multi-Function I/O

Connection: Euro M12 4-pin Rotatable Connector

Part Number: 807731

CERTIFICATIONS

SPECIFICATIONS

Sensing Mode (General)	Proximity
Sensing Mode (Detailed)	Background/Foreground Suppression
Housing Style	Rectangular
Primary Housing Material	ABS
Laser Classification	Class 2
Input/Output	Discrete
Indicator	Display; LED(s)
Analog Resolution/Discrete Repeatability	TBD

Max Sensing Distance (mm)	5000
Minimum Sensing Distance (mm)	50
Sensing Beam	Visible Red Laser
Power Supply	10-30 V dc
Delay at Power-up (ms)	2500
Sensing Beam Wavelength (nm)	650
Adjustments	Push Button; Remote Teach
Temperature Effect (mm/°C)	< +/- 0.5 mm/°C < 3000 mm,< +/- 0.75 mm/°C at < 5000 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 NPN Outputs	< 2.5 V @ 50 mA
Output Saturation Voltage PNP Outputs	< 2.5 V @ 50 mA
Max Discrete (Switched) Output (mA)	50
Discrete (Switched) Outputs	2 NPN/PNP Configurable
Output Protection	Protected against continuous overload and short circuit
IP Rating	IP67
Storage Temperature (°C)	-25 to 70
Max Operating Temperature (°C)	50
Min Operating Temperature (°C)	-10
Max Op. Relative Humidity Non-Condensing (%)	95 at 50°C
Window Material	PMMA

Warm-up Time (minutes)	10
Minimum Response Time (ms)	2
Spot Size (@ Reference Distance)	TBD
Minimum Window Size (mm)	1
Discrete Output Hysteresis (mm)	Automatically adjusted
Laser Control	Yes
Max Ambient Light (Lux)	up to 5000 lux at 1000 mm and up to 2000 lux at 2000 mm
Power/Current Consumption (exclusive of load)	< 1 W
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	No
Feature: Pump-in/ Pump-out	Yes
Common Ethernet Protocol	No
IO Link	Yes
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

	SMB30A Bracket: Right Angle Mounting Material: 12 Gauge Stainless Steel Curved mounting slot for versatility/orientation Clearance for M6 (1/4 in.) hardware
	SMBAMSQ5XIPP Bracket: Straight or Flat Bracket with AMS Mounting Including Side Impact and Glass Window
	SMBAMSQ5XIPRA Bracket: Right Angle or L Bracket with AMS Mounting Including Side Impact and Glass Window
	SMBAMSQ5XP Bracket: Straight or Flat Bracket with AMS Mounting Only No Industrial Protection Components
	SMBAMSQ5XRA Bracket: Right Angle or L Bracket with AMS Mounting Alone No Industrial Protection Components
	SMBQ5XDT Bracket: Dove Tail Set Aluminum Extrusions and Associated Bolts
	SMBQ5XFA Bracket: Kit for 12 mm (1/2 in) Rod Bracket System for: Q5X, QM42, PD45, PD49, QC50 Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)
	SMBQ5XFAM10 Bracket: Kit for 10mm (3/8in) Rod Bracket Systems for:Q5X, QM42, PD45, PD49, QC50 Includes M10-1.5x100mm Socket Head Cap Screw(SHCS)
	SMBQ5XFAM12 Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems for: Q5X, QM42, PD45, PD49, QC50 No Socket Head Cap Screw (SHCS) included
	SMBQ5XM4F Bracket: M4 Fixing Plates M4 Socket Head Cap Screw Qty = 2 of Each Part

DOUBLE-ENDED CORDSETS

	MQDC-4501SS Euro-Style QD to Euro-Style QD 5-pin Euro Straight Male; 4-pin Euro Straight Female 0.3 m (1.0 ft) in Length Nickel-Plated Brass Coupling Nuts; PVC Jacketed Cable 4x22AWG Conductors; No Shield
	MQDC-4506SS Euro-style QD to Euro-style QD 5 Pin Euro Straight Male; 4 Pin Euro Straight Female 1.83 m (6.0 ft) in Length Nickel-Plated Brass Coupling Nuts; PVC Jacketed Cable; 4x22AWG Conductors; No Shield
	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-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-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-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 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

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-406RA Euro-Style Quick Disconnect Cable 4-Pin Right-Angle 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-415RA Euro-Style Quick Disconnect Cable 4-Pin Right-Angle 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-430RA Euro-Style Quick Disconnect Cable 4-Pin Right-Angle 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-450RA Euro-Style Quick Disconnect Cable 4-Pin Right-Angle Connector 15 m (50 ft) in Length Nickel-plated brass coupling nut

REPLACEMENT WINDOW

	RWSMBQ5XIP-1 Accessory: One Piece of Glass Replacement for SMBQ5XIP
	RWSMBQ5XIP-5 Accessory: Five Pieces of Glass Replacement for SMBQ5XIP

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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