



# QS18EK6XLPCQ7

## ► QS18 SERIES ALL PURPOSE PHOTOELECTRIC SENSOR



QS18 Expert Series Clear Object Sensor  
Range: 3000 mm; Input: 10-30 V dc  
Output 1: Push/Pull with IO-Link; Output 2:  
Configurable PNP/NPN  
Pico M8 Integral Quick-Disconnect  
Part Number: 801744

### CERTIFICATIONS





### SPECIFICATIONS






Sensing Mode (General)	Retroreflective
Sensing Mode (Detailed)	Polarized (Coaxial)
Housing Style	Rectangular w/M18 Mount
Primary Housing Material	Thermoplastic
Input/Output	Discrete & Serial
Max Sensing Range (mm)	3000
Outputs	2 NPN/2 PNP Configurable
Power Supply/Supply Voltage	10-30 V dc
Connection	Integral QD
Quick Disconnect Type	M8 (Pico)
Sensing Beam	Visible Red LED




<b>Operation</b>	Light/Dark Operate
<b>Max Op. Temp. (°C)</b>	70
<b>Min Op. Temp. (°C)</b>	-40
<b>Output response time (ms)</b>	0.4
<b>Special Feature: Intrinsically Safe</b>	No
<b>Special Feature: Remote Teach</b>	Yes
<b>Special Feature: Water Detection</b>	No
<b>IP Rating</b>	IP67
<b>Sensing Beam Wavelength</b>	625
<b>Delay at Power-up (ms)</b>	100
<b>Repeatability (µs)</b>	100
<b>Number of Pins</b>	4
<b>NEMA Rating</b>	NEMA 6
<b>Max Op. Relative Humidity [%]</b>	95% @ 50°C
<b>Lens Material</b>	PMMA
<b>Adjustments</b>	Teach Button
<b>Barrel Diameter (mm)</b>	18
<b>Indicator</b>	LEDs
<b>Opposed Mode Emitter/Receiver</b>	N/A
<b>Feature: Clear Object Detection</b>	Yes
<b>Feature: Timing (Hold/Delay)</b>	Yes
<b>Feature: Encapsulated</b>	No
<b>Feature: Hazardous Area</b>	No
<b>Feature: Audible</b>	No
<b>Feature: Chemical Resistant</b>	No
<b>Feature: Health/ Marginal Signal Output</b>	Yes
<b>IO Link</b>	Yes

**RECOMMENDED PRODUCTS****SINGLE ENDED CORDSETS**

	<b>PKG4M-2</b>  Threaded Pico-Style Quick Disconnect Cable With ; Straight 4-Pin Connector; 2 m (6.5 ft) in Length; Threaded coupling
	<b>PKG4M-5</b>  Threaded Pico-Style Quick Disconnect Cable With; Straight 4-Pin 150 mm (6 Inch) Pigtail Connector; 5m (16 ft) in Length; Threaded Coupling
	<b>PKG4M-9</b>  Threaded Pico-Style Quick Disconnect Cable With ; Straight 4-Pin Connector; 9 m (30 ft) in Length; Threaded coupling
	<b>PKW4M-2</b>  Threaded Pico-Style Quick Disconnect Cable With ; Right-Angle 4-Pin Connector; 2 m (6.5 ft) in Length; Threaded coupling
	<b>PKW4M-5</b>  Threaded Pico-Style Quick Disconnect Cable With ; Right-Angle 4-Pin Connector; 5m (16.4 ft) in Length; Threaded coupling
	<b>PKW4M-9</b>  Threaded Pico-Style Quick Disconnect Cable With ; Right-Angle 4-Pin Connector; 9 m (30 ft) in Length; Threaded coupling

**ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES**

	<b>SMB18A</b>  Bracket: 18 mm Right Angle-mount; Material: 11 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M4 #8 hardware
	<b>SMB18AFA</b>  Bracket: Covered Mounting Bracket
	<b>SMB18AFAM10</b>  Bracket: Covered Mounting Bracket with 10 mm Screw
	<b>SMB312S</b>  Bracket: Side Mounting; Material: Stainless Steel 2-axis
	<b>SMBQ4XFA</b>  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)

	<b>SMBQ4XFAM10</b>  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)
	<b>SMBQ4XFAM12</b>  Bracket: Kit for 12 mm (1/2 in) Rod Bracket Systems; for: Q4X, QS18, QS30; No Socket Head Cap Screw (SHCS) included
	<b>SMBQS18Y</b>  SMBQS18Y MOUNTING BRACKET ASSY

## RETROREFLECTIVE TARGET

	<b>BRT-40X19A</b>  BRT-40X19A
	<b>BRT-40X19A-PS</b>  Retroreflective Target: Rectangular -40x19mm; Reflectivity Factor: 1.0; Max. Temp.= 50 degrees C; Polystyrene Plastic; yellow - two screw holes for mounting
	<b>BRT-60X40C</b>  Retroreflective Target: Rectangular -60x40mm; Reflectivity Factor: 1.4; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting
	<b>BRT-60X40C-PS</b>  Retroreflective Target: Rectangular -60x40mm; Reflectivity Factor: 1.1; Max. Temp.= 50 degrees C; Polystyrene Plastic; yellow - two screw holes for mounting
	<b>BRT-60X40IP69K</b>  Retroreflective Target: Rectangular -60x40mm; Reflectivity Factor: 0.7; IP69K RATED ; Plastic - two screw holes for mounting
	<b>BRT-92X92C</b>  Retroreflective Target: Rectangular -92x92mm; Reflectivity Factor: 3.0; Max. Temp.= 50 degrees C; Plastic - two screw holes for mounting



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