



## QS18EP6CV45Q7

### ► QS18 SERIES ALL PURPOSE PHOTOELECTRIC SENSOR



WORLD-BEAM QS18 Expert Series: Convergent  
 Range 43 mm; Input: 10-30V dc  
 Output: Convergent  
 Integral Pico-Style Quick-Disconnect Connector  
 Part Number: 72001

#### CERTIFICATIONS



#### SPECIFICATIONS

<b>Sensing Mode (General)</b>	Proximity
<b>Sensing Mode (Detailed)</b>	Convergent
<b>Housing Style</b>	Rectangular w/M18 Mount
<b>Primary Housing Material</b>	Thermoplastic
<b>Input/Output</b>	Discrete
<b>Max Sensing Range (mm)</b>	43
<b>Outputs</b>	PNP
<b>Power Supply/Supply Voltage</b>	10-30 V dc
<b>Connection</b>	Integral QD
<b>Quick Disconnect Type</b>	M8 (Pico)
<b>Sensing Beam</b>	Visible Red LED











<b>Operation</b>	Light/Dark Operate
<b>Max Op. Temp. (°C)</b>	70
<b>Min Op. Temp. (°C)</b>	-20
<b>Output response time (ms)</b>	0.6
<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>Delay at Power-up (ms)</b>	100
<b>Repeatability (µs)</b>	75
<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: 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>IO Link</b>	No

## RECOMMENDED PRODUCTS












## SINGLE ENDED CORDSETS


	<b>PKG4-2</b>
	Pico-style Quick Disconnect Cable; 4 Pin Straight Connector; 2 m (6.5 ft) in Length; POM snap-lock coupling
	<b>PKW4Z-2</b>
	Pico-style Quick Disconnect Cable; 4 Pin Right Angle Connector; 2 m (6.5 ft) in Length; POM snap-lock 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>SMB18SF</b>
	Bracket: 18 mm Swivel; Material: Black VALOX; Mounting Flange; Swivel Locking Hardware Included
	<b>SMB312S</b>
	Bracket: Side Mounting; Material: Stainless Steel 2-axis
	<b>SMB18FA</b>
	Bracket: Kit for 12 mm (1/2 in.) Rod Bracket Systems for; most 18 mm barrel mount sensors; lights; and brackets; Includes 3/8-16 X 2 in. Socket Head Cap Screw (SHCS)
	<b>SMB312PD</b>
	Bracket: 18 mm Barrel Mounting; Material: Stainless Steel
	<b>SMB18S</b>
	Bracket: 18 mm Swivel; Material: Black VALOX; 18 mm swivel; Hardware included
	<b>SMBQS18Y</b>
	SMBQS18Y MOUNTING BRACKET ASSY
	<b>SMB18UR</b>
	Bracket: 2 part universal rotating stainless steel; Allows full horizontal movement; Allows full vertical movement
	<b>SMBQS18A</b>
	SMBQS18A MOUNTING BRACKET ASSY
	<b>SMB3018SC</b>
	Bracket: 18 mm swivel barrel or side mounting; Black reinforced thermoplastic polyester; Hardware included

	<p><b>SMB30SUS</b></p> <p>Bracket: Side Mounting Swivel; Extended range of motion; Black thermoplastic polyester; Allows Maximum Articulation</p>
	<p><b>SMBAMS18RA</b></p> <p>Bracket: Right-angle SMBAMS series with; 18 mm hole for mounting sensors; Articulation slots for 90 plus degree rotation; 12-ga. (2.6 mm) Cold-rolled Steel</p>
	<p><b>SMB46L</b></p> <p>Bracket: L; Material: 14 Gauge 316 Stainless Steel</p>
	<p><b>SMBAMS18P</b></p> <p>Bracket: Flat SMBAMS series with 18 mm ; hole for mounting sensors; Articulation slots for 90 plus degree rotation; 12-ga. (2.6 mm) Cold-rolled Steel</p>
	<p><b>SMB18Q</b></p> <p>Bracket: 18 mm Angled Flanged-Mount; Material: 12 Guage Stainless Steel; Barrel-Mount</p>
	<p><b>SMB30SK</b></p> <p>Bracket: Flat mount swivel with extended range; Allows full articulation; Black thermoplastic polyester &amp; 316 stainless stee; Hardware included</p>
	<p><b>SMB46A</b></p> <p>Bracket: Adjustable; Stainless Steel; Includes: 2 mm shortarm hex keys</p>
	<p><b>SMB18AFA</b></p> <p>Bracket: Covered Mounting Bracket</p>
	<p><b>SMB18C</b></p> <p>Bracket: Stainless Steel Mounting; Material: Black VALOX; 18mm split clamp ; Hardware included</p>
	<p><b>SMB18FAM10</b></p> <p>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)</p>
	<p><b>SMB46U</b></p> <p>Bracket: U; Material: 14 Gauge 316 Stainless Steel</p>
	<p><b>SMBQS18RA</b></p> <p>SMBQS18RA MOUNTING BRACKET</p>
	<p><b>SMB4050YL</b></p> <p>SMB4050YL MOUNTING BRACKET ASSY W/REPLACEABLE LENS COVER</p>

	<p><b>SMB46S</b></p> <p>Bracket: S; Material: 14 Gauge 316 Stainless Steel</p>
	<p><b>SMB18FM</b></p> <p>SMB18FM FLANGE MOUNT 18MM BRACKET KIT</p>
	<p><b>SMB18WT</b></p> <p>Bracket: 2 part universal rotating stainless steel; Allows full horizontal/vertical movement, modified for DS18 AC models</p>
	<p><b>SMB1812SF</b></p> <p>Bracket: Swivel; Compact 12mm; Black reinforced thermoplastic polyester; Hardware included</p>
	<p><b>SMB18FAB</b></p> <p>SMB18FAB MOUNTING BRACKET; 121704</p>
	<p><b>SMB18SM</b></p> <p>Bracket: Mounts by its base; Material: Black VALOX; Flexible and Convienient ; Hardware included</p>
	<p><b>SMB18RAVK</b></p> <p>SMB18RAVK 18MM BRACKET ASSY</p>
	<p><b>SMBC18</b></p> <p>Bracket: 28 mm Creform Mounting ; Material: Plastic; For 18 mm Lights and Sensors</p>
	<p><b>SMB18AFAM10</b></p> <p>Bracket: Covered Mounting Bracket with 10 mm Screw</p>
	<p><b>SMB18ATFA</b></p> <p>SMB18ATFA COVERED MOUNTING BRACKET, 115MM LONG 4 MOUNTING HOLES</p>
	<p><b>SMBQS18DIN</b></p> <p>SMBQS18DIN MOUNTING BRACKET ASSY</p>
	<p><b>SMBQS18WRS</b></p> <p>SMBQS18WRS</p>
	<p><b>SMB18UR-2</b></p> <p>SMB18UR-2 MOUNTING BRKT. ASSY</p>
	<p><b>SMB18ATFAM10</b></p> <p>SMB18ATFAM10 COVERED MOUNTING BRACKET,115MM LONG 4 MOUNTING HOLES, W/10MM SCREW</p>

	<b>SMB18AZ</b> SMB18AZ MOUNTING BRACKET ASSY METAL BRACKET CHINA ONLY
	<b>SMB18FVK</b> SMB18FVK 18MM BRACKET ASSY
	<b>SMB18URZ</b> SMB18URZ MOUNTING BRACKET ASSY CHINA ONLY



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