



## QS186LE2Q7

### ► QS18 SERIES ALL PURPOSE PHOTOELECTRIC SENSOR



WORLD-BEAM QS18 Series: Laser Class 2; Small Spot

Range: 15 m; Input: 10-30 V dc

Output: Not Applicable

Pico 4-pin Integral Quick-Disconnect

Part Number: 75955

#### CERTIFICATIONS





#### SPECIFICATIONS

|                                    |                         |
|------------------------------------|-------------------------|
| <b>Sensing Mode (General)</b>      | Opposed                 |
| <b>Sensing Mode (Detailed)</b>     | Laser Emitter           |
| <b>Housing Style</b>               | Rectangular w/M18 Mount |
| <b>Primary Housing Material</b>    | Thermoplastic           |
| <b>Laser Classification</b>        | Class 2                 |
| <b>Input/Output</b>                | Discrete                |
| <b>Max Sensing Range (mm)</b>      | 15000                   |
| <b>Outputs</b>                     | N/A                     |
| <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>                        | Laser      |
| <b>Operation</b>                           | N/A        |
| <b>Max Op. Temp. (°C)</b>                  | 50         |
| <b>Min Op. Temp. (°C)</b>                  | -10        |
| <b>Output response time (ms)</b>           | N/A        |
| <b>Special Feature: Intrinsically Safe</b> | No         |
| <b>Special Feature: Remote Teach</b>       | No         |
| <b>Special Feature: Water Detection</b>    | No         |
| <b>IP Rating</b>                           | IP67       |
| <b>Sensing Beam Wavelength</b>             | 650        |
| <b>Delay at Power-up (ms)</b>              | 10         |
| <b>Repeatability (µs)</b>                  | N/A        |
| <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>                         | N/A        |
| <b>Barrel Diameter (mm)</b>                | 18         |
| <b>Indicator</b>                           | LEDs       |
| <b>Opposed Mode Emitter/Receiver</b>       | Emitter    |
| <b>Feature: Timing (Hold/Delay)</b>        | No         |
| <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

|   |   |
|---|---|
|  | <p><b>PKG4-2</b></p>  |
|   | <p>Pico-style Quick Disconnect Cable; 4 Pin Straight Connector; 2 m (6.5 ft) in Length; POM snap-lock coupling</p>    |
|  | <p><b>PKW4Z-2</b></p>   |
|   | <p>Pico-style Quick Disconnect Cable; 4 Pin Right Angle Connector; 2 m (6.5 ft) in Length; POM snap-lock coupling</p> |

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

|   |  |
|---|--|
|    | <p><b>SMB18A</b></p>   |
|   | <p>Bracket: 18 mm Right Angle-mount; Material: 11 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M4 #8 hardware</p>                 |
|    | <p><b>SMB18SF</b></p>  |
|   | <p>Bracket: 18 mm Swivel; Material: Black VALOX; Mounting Flange; Swivel Locking Hardware Included</p>   |
|   | <p><b>SMB312S</b></p>  |
|   | <p>Bracket: Side Mounting; Material: Stainless Steel 2-axis</p>  |
|  | <p><b>SMB18FA</b></p>  |
|   | <p>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)</p> |
|  | <p><b>SMB312PD</b></p>   |
|   | <p>Bracket: 18 mm Barrel Mounting; Material: Stainless Steel</p>   |
|  | <p><b>SMB18S</b></p>   |
|   | <p>Bracket: 18 mm Swivel; Material: Black VALOX; 18 mm swivel; Hardware included</p>   |
|  | <p><b>SMBQS18Y</b></p>   |
|   | <p>SMBQS18Y MOUNTING BRACKET ASSY</p>  |
|  | <p><b>SMB18UR</b></p>  |
|   | <p>Bracket: 2 part universal rotating stainless steel; Allows full horizontal movement; Allows full vertical movement</p>  |
|  | <p><b>SMBQS18A</b></p>   |
|   | <p>SMBQS18A MOUNTING BRACKET ASSY</p>  |
|  | <p><b>SMB3018SC</b></p>  |
|   | <p>Bracket: 18 mm swivel barrel or side mounting; Black reinforced thermoplastic polyester; Hardware included</p>  |

|   |   |
|---|---|
|    | <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 Convenient ; 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>                                      |



**SMB18FVK**

SMB18FVK 18MM BRACKET ASSY



Banner Engineering Corp. | 9714 Tenth Avenue North | Minneapolis, MN 55441 | United States of America