



## QS18VN6LV W/10

### ▶ PRODUCTS FOR INDUSTRIAL AUTOMATION



WORLD-BEAM QS18 Series: Retro  
 Range: 6.5 m; Input: 10-30V dc  
 Output: Complementary Solid State NPN  
 3 m (10 ft) Cable  
 Part Number: 12499

#### CERTIFICATIONS
















#### SPECIFICATIONS














|                                    |                         |
|------------------------------------|-------------------------|
| <b>Sensing Mode (General)</b>      | Retroreflective         |
| <b>Sensing Mode (Detailed)</b>     | Non-Polarized           |
| <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>      | 6500                    |
| <b>Outputs</b>                     | NPN                     |
| <b>Power Supply/Supply Voltage</b> | 10-30 V dc              |
| <b>Connection</b>                  | Other                   |
| <b>Quick Disconnect Type</b>       | No QD                   |
| <b>Sensing Beam</b>                | Visible Red LED         |

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|--|--------------------|
| <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>       | No                 |
| <b>Special Feature: Water Detection</b>    | No                 |
| <b>IP Rating</b>                           | IP67               |
| <b>Delay at Power-up (ms)</b>              | 100                |
| <b>Repeatability (µs)</b>                  | 150                |
| <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>                       | Acrylic            |
| <b>Adjustments</b>                         | Potentiometer      |
| <b>Barrel Diameter (mm)</b>                | 18                 |
| <b>Indicator</b>                           | LEDs               |
| <b>Opposed Mode Emitter/Receiver</b>       | N/A                |
| <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

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

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|    | <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>   |

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|---|---|
|     | <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>  |

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



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