



## QS30ARXSH20

### ► QS30 SERIES HIGH-PERFORMANCE LONG-RANGE SENSOR



WORLD-BEAM QS30 Series: H2O SHP Receiver

Range: 8 m; Input: 10-30 V dc

Output: LO; Bipolar: 1 NPN; 1 PNP

2 m (6.5 ft) Cable

Part Number: 83301

#### CERTIFICATIONS



#### SPECIFICATIONS

|                                    |                                 |
|------------------------------------|---------------------------------|
| <b>Sensing Mode (General)</b>      | Opposed                         |
| <b>Sensing Mode (Detailed)</b>     | Receiver                        |
| <b>Housing Style</b>               | Rectangular w/M30 Mount         |
| <b>Primary Housing Material</b>    | Thermoplastic                   |
| <b>Input/Output</b>                | Discrete                        |
| <b>Max Sensing Range (mm)</b>      | 8000                            |
| <b>Outputs</b>                     | Bipolar (NPN & PNP)             |
| <b>Power Supply/Supply Voltage</b> | 10-30 V dc                      |
| <b>Connection</b>                  | 2 m Cable                       |
| <b>Quick Disconnect Type</b>       | No QD                           |
| <b>Sensing Beam</b>                | Long Infrared (Water Detection) |

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| <b>Operation</b>                           | Light Operate |
| <b>Max Op. Temp. (°C)</b>                  | 60            |
| <b>Min Op. Temp. (°C)</b>                  | -20           |
| <b>Output response time (ms)</b>           | 10            |
| <b>Special Feature: Intrinsically Safe</b> | No            |
| <b>Special Feature: Remote Teach</b>       | No            |
| <b>Special Feature: Water Detection</b>    | Yes           |
| <b>IP Rating</b>                           | IP67          |
| <b>Delay at Power-up (ms)</b>              | 100           |
| <b>Repeatability (µs)</b>                  | 5000          |
| <b>Number of Pins</b>                      | 5             |
| <b>NEMA Rating</b>                         | NEMA PW12     |
| <b>Max Op. Relative Humidity [%]</b>       | 95% @ 50°C    |
| <b>Lens Material</b>                       | Acrylic       |
| <b>Adjustments</b>                         | N/A           |
| <b>Barrel Diameter (mm)</b>                | 30            |
| <b>Indicator</b>                           | Bargraph      |
| <b>Opposed Mode Emitter/Receiver</b>       | Receiver      |
| <b>Feature: Timing (Hold/Delay)</b>        | No            |
| <b>Feature: Encapsulated</b>               | Yes           |
| <b>Feature: Hazardous Area</b>             | No            |
| <b>Feature: Audible</b>                    | No            |










## RECOMMENDED PRODUCTS

### ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES



#### **SMB30MM**


Bracket: 30mm; Material: 12 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M6 (1/4 in.) hardware

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|---|---|
|    | <p><b>SMB30SC</b></p> <p>Bracket: Compact 30 mm Swivel; Black reinforced thermoplastic polyester; Wide Range of Articulation ; Hardware included</p>  |
|    | <p><b>SMB30A</b></p> <p>Bracket: Right Angle Mounting; Material: 12 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M6 (1/4 in.) hardware</p>               |
|    | <p><b>SMB30S</b></p> <p>Bracket: Stainless Steel Mounting; Material: Black Polyester; 30 mm Swivel ; Hardware included</p>  |
|    | <p><b>SMBAMS30RA</b></p> <p>Bracket: 30mm Right Angle; Material: 12 Gauge cold rolled steel; Curved mounting slot for versatility/orientation</p>   |
|    | <p><b>SMB30FA</b></p> <p>SMB30FA MOUNTING BRACKET</p>   |
|    | <p><b>SMB30RAVK</b></p> <p>Bracket: V-Clamp Mount; 30 mm hole to 28 mm tube; Right-angle</p>  |
|  | <p><b>SMBQS30Y</b></p> <p>Bracket: Heavy-duty die-cast bracket M18 vertical mount option; +/- 8 deg tilt adjustment with cabled units; Includes nuts and lock washerr; Used with QS30 (DC only)</p> |
|  | <p><b>SMB30FVK</b></p> <p>SMB30FVK 30MM BRACKET ASSY</p>  |
|  | <p><b>SMBAMS30P</b></p> <p>Bracket: 30 mm flat bracket; Material: 12 Gauge Cold Rolled Steel; Curved mounting slot for versatility/orientation</p>  |
|  | <p><b>SMBQS30L</b></p> <p>Bracket: Stainless Steel Right-Angle; 14-ga Stainless Steel; Clearance for M4 ( no 8) Hardware; +/- 12 Degree Tilt Adjustment</p>   |
|  | <p><b>SMB46L</b></p> <p>Bracket: L; Material: 14 Gauge 316 Stainless Steel</p>  |
|  | <p><b>SMB30SM</b></p> <p>Bracket: Swivel; Material: Black VALOX; Swivel ball is locked when bolts are tightened ; Hardware included</p>   |
|  | <p><b>SMB30C</b></p> <p>Bracket: Stainless Steel Mounting; Material: Black VALOX; 30mm split clamp ; Hardware included</p>  |

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|    | <p><b>SMBQS30YL</b></p> <p>Bracket: Heavy-duty die-cast bracket designed for ; industrial protection; Replaceable window; M18 vertical mount option; Includes nuts and lock washer; Used with QS30 (DC only)</p>       |
|    | <p><b>SMB30Q</b></p> <p>Bracket: 30 mm Angle Flanged Mounting; For use with Q40 Sensors</p>  |
|    | <p><b>SMB46U</b></p> <p>Bracket: U; Material: 14 Gauge 316 Stainless Steel</p>   |
|    | <p><b>SMB46S</b></p> <p>Bracket: S; Material: 14 Gauge 316 Stainless Steel</p>   |
|    | <p><b>SMB30FAM10</b></p> <p>SMB30FAM10 MOUNTING BRACKET, M10 X 50MM SHCS, M5 X 18MM SHCS</p>   |
|    | <p><b>SMBAMS30PL52</b></p> <p>SMBAMS30PL52 AUTOMOTIVE BRKT STRAIGHT LEGEND PLATE</p>   |
|   | <p><b>SMBAMS30RLJ</b></p> <p>Bracket: Right-angle SMBAMS series with 70 x 40 mm space for label; 30 mm hole for mounting sensor; Articulation slots for 90 plus degree rotation; 12-ga. (2.6 mm) Cold-rolled Steel</p> |
|  | <p><b>SMBAMS30RLS</b></p> <p>Bracket: Right Angle; 30 mm hole; Small Legend, Automotive Industry;</p>  |
|  | <p><b>SMBAMS30PL52R</b></p> <p>Bracket: Flat SMBAMS series with space; for 60 x 58 mm label; 30 mm hole for mounting sensors; Articulation slots for 90 plus degree rotation; 12-ga. (2.6 mm) Cold-rolled Steel</p>    |
|  | <p><b>SMB30MM-62101</b></p> <p>SMB30MM-62101 MNTG BRKT QTY 2 30 MILLIMETER</p>   |
|  | <p><b>SMB30RAL52R</b></p> <p>Bracket: 30 mm Hole; 8.3 mm X 127 mm Slot; Zinc Plated Cold Rolled Steel</p>  |
|  | <p><b>SMBAMS30RAE</b></p> <p>Bracket: 30 mm Right Angle extended version; Material: 12 Gauge Cold Rolled Steel; Curved Mounting Slot for versatility/orientation</p>   |
|  | <p><b>SMB30FVKQ</b></p> <p>Bracket: 30 mm Bracket Assembly</p>   |

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|  | <b>SMB30AZ</b> |
| SMB30AZ 30MM BRACKET ASSY CHINA ONLY   |                |

## ACCESSORIES

|   |                   |
|---|-------------------|
|  | <b>SMB30RAVKQ</b> |
| Bracket: 30 mm Bracket Assembly   |                   |



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