



# QS30LDQPMA

► QS30 SERIES HIGH-PERFORMANCE LONG-RANGE SENSOR



WORLD-BEAM QS30: Laser Diffuse (Class 1)  
Range: 400 mm; Input: 10-30V dc  
Output: Bipolar: 1 NPN; 1 PNP  
6 in (150 mm) PUR pigtail Euro-style QD  
Part Number: 72100

CERTIFICATIONS



SPECIFICATIONS

|                             |                         |
|-----------------------------|-------------------------|
| Sensing Mode (General)      | Proximity               |
| Sensing Mode (Detailed)     | Diffuse                 |
| Housing Style               | Rectangular w/M30 Mount |
| Primary Housing Material    | Thermoplastic           |
| Laser Classification        | Class 1                 |
| Input/Output                | Discrete                |
| Max Sensing Range (mm)      | 400                     |
| Outputs                     | Bipolar (NPN & PNP)     |
| Power Supply/Supply Voltage | 10-30 V dc              |
| Connection                  | Pigtail PUR QD          |
| Quick Disconnect Type       | M12 (Euro)              |

|                                            |                    |
|--------------------------------------------|--------------------|
| <b>Sensing Beam</b>                        | Laser              |
| <b>Operation</b>                           | Light/Dark Operate |
| <b>Max Op. Temp. (°C)</b>                  | 50                 |
| <b>Min Op. Temp. (°C)</b>                  | -10                |
| <b>Output response time (ms)</b>           | 0.5                |
| <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>             | 650                |
| <b>Delay at Power-up (ms)</b>              | 1000               |
| <b>Repeatability (µs)</b>                  | 70                 |
| <b>Number of Pins</b>                      | 5                  |
| <b>NEMA Rating</b>                         | NEMA 6             |
| <b>Max Op. Relative Humidity [%]</b>       | 95% @ 50°C         |
| <b>Lens Material</b>                       | Acrylic            |
| <b>Adjustments</b>                         | Teach Button       |
| <b>Barrel Diameter (mm)</b>                | 30                 |
| <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                 |

## RECOMMENDED PRODUCTS

## ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

|                                                                                     |                                                                                                                                                                                              |
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|    | <b>SMB30MM</b><br><br>Bracket: 30mm; Material: 12 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M6 (1/4 in.) hardware                              |
|    | <b>SMB30SC</b><br><br>Bracket: Compact 30 mm Swivel; Black reinforced thermoplastic polyester; Wide Range of Articulation ; Hardware included                                                |
|    | <b>SMB30A</b><br><br>Bracket: Right Angle Mounting; Material: 12 Gauge Stainless Steel; Curved mounting slot for versatility/orientation ; Clearance for M6 (1/4 in.) hardware               |
|    | <b>SMB30S</b><br><br>Bracket: Stainless Steel Mounting; Material: Black Polyester; 30 mm Swivel ; Hardware included                                                                          |
|    | <b>SMBAMS30RA</b><br><br>Bracket: 30mm Right Angle; Material: 12 Gauge cold rolled steel; Curved mounting slot for versatility/orientation                                                   |
|   | <b>SMB30FA</b><br><br>SMB30FA MOUNTING BRACKET                                                                                                                                               |
|  | <b>SMB30RAVK</b><br><br>Bracket: V-Clamp Mount; 30 mm hole to 28 mm tube; Right-angle                                                                                                        |
|  | <b>SMBQS30Y</b><br><br>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) |
|  | <b>SMB30FVK</b><br><br>SMB30FVK 30MM BRACKET ASSY                                                                                                                                            |
|  | <b>SMBAMS30P</b><br><br>Bracket: 30 mm flat bracket; Material: 12 Gauge Cold Rolled Steel; Curved mounting slot for versatility/orientation                                                  |
|  | <b>SMBQS30L</b><br><br>Bracket: Stainless Steel Right-Angle; 14-ga Stainless Steel; Clearance for M4 ( no 8) Hardware; +/- 12 Degree Tilt Adjustment                                         |
|  | <b>SMB46L</b><br><br>Bracket: L; Material: 14 Gauge 316 Stainless Steel                                                                                                                      |
|  | <b>SMB30SM</b><br><br>Bracket: Swivel; Material: Black VALOX; Swivel ball is locked when bolts are tightened ; Hardware included                                                             |

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|    | <b>SMB30C</b><br><br>Bracket: Stainless Steel Mounting; Material: Black VALOX; 30mm split clamp ; Hardware included                                                                                             |
|    | <b>SMBQS30YL</b><br><br>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)       |
|    | <b>SMB30Q</b><br><br>Bracket: 30 mm Angle Flanged Mounting; For use with Q40 Sensors                                                                                                                            |
|    | <b>SMB46U</b><br><br>Bracket: U; Material: 14 Gauge 316 Stainless Steel                                                                                                                                         |
|    | <b>SMB46S</b><br><br>Bracket: S; Material: 14 Gauge 316 Stainless Steel                                                                                                                                         |
|    | <b>SMB30FAM10</b><br><br>SMB30FAM10 MOUNTING BRACKET, M10 X 50MM SHCS, M5 X 18MM SHCS                                                                                                                           |
|  | <b>SMBAMS30PL52</b><br><br>SMBAMS30PL52 AUTOMOTIVE BRKT STRAIGHT LEGEND PLATE                                                                                                                                   |
|  | <b>SMBAMS30RLJ</b><br><br>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 |
|  | <b>SMBAMS30RLS</b><br><br>Bracket: Right Angle; 30 mm hole; Small Legend, Automotive Industry;                                                                                                                  |
|  | <b>SMBAMS30PL52R</b><br><br>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    |
|  | <b>SMB30MM-62101</b><br><br>SMB30MM-62101 MNTG BRKT QTY 2 30 MILLIMETER                                                                                                                                         |
|  | <b>SMB30RAL52R</b><br><br>Bracket: 30 mm Hole; 8.3 mm X 127 mm Slot; Zinc Plated Cold Rolled Steel                                                                                                              |
|  | <b>SMBAMS30RAE</b><br><br>Bracket: 30 mm Right Angle extended version; Material: 12 Gauge Cold Rolled Steel; Curved Mounting Slot for versatility/orientation                                                   |

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|   | <b>SMB30FVKQ</b><br><br>Bracket: 30 mm Bracket Assembly    |
|  | <b>SMB30AZ</b><br><br>SMB30AZ 30MM BRACKET ASSY CHINA ONLY |

ACCESSORIES

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