



# T30R-1515-KUQ

## ▶ T30R SERIES RADAR SENSOR



T30R R-GAGE Series Radar Sensor  
Range 15 m; Input: 10-30 V dc  
0-10 V Analog, 1 NPN/PNP Configurable with IO Link  
5-pin M12 Quick Disconnect  
Part Number: 808901

### CERTIFICATIONS



## ACCESSORIES TO COMPLETE YOUR SYSTEM

Add all or individual items to your cart. More options available below.

	<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>PRO-KIT</b></p> <p>DK-Pro Series Accessory Kit Includes Converter Cable, Splitter and Power Supply</p>



## MQDEC2-506

Cordset A-Code M12 Single Ended  
5-pin Straight Female Connector with Shield  
2.00 m (6.56 ft) in Length  
Black PVC Jacket, Nickel-Plated Brass Nut

## SPECIFICATIONS



<b>Max Measurement Range</b>	>5 m - <=20 m
<b>Operating Frequency</b>	122 GHz
<b>Power</b>	DC
<b>Sensing Beam</b>	Radar
<b>PC Configurable</b>	Yes
<b>Sensing Mode (General)</b>	Proximity
<b>Sensing Mode (Detailed)</b>	Time of Flight
<b>Housing Style</b>	Barrel
<b>Device Type</b>	Sensor
<b>Primary Housing Material</b>	PBT
<b>Input/Output</b>	Analog & Discrete
<b>Indicator</b>	LED(s)
<b>Analog Output Configuration</b>	0-10 V dc
<b>Connection</b>	Integral QD
<b>Radar Beam Pattern (H x V °)</b>	15 x 15
<b>Analog Resolution/Discrete Repeatability</b>	< 1 mm at Excess Gain $\geq 10x$ < 10 mm at Excess Gain < 10x
<b>Quick Disconnect Type</b>	M12
<b>Max Sensing Distance (mm)</b>	15000
<b>Minimum Sensing Distance (mm)</b>	150
<b>Power Supply</b>	12-30 V dc
<b>Delay at Power-up (ms)</b>	300










<b>Adjustments</b>	Software; Push Button; Remote Teach
<b>Number of Pins</b>	5
<b>Vibration</b>	MIL-STD-202F req. Method 201A (vibration:10 to 60Hz max., double amplitude 0.06", max acc. 10G).
<b>Mechanical Shock</b>	MIL-STD-202G, Meth. 213B, conditions H&I (Shock: 75G with unit operation: 100G for non-operation).
<b>Output Saturation Voltage NPN Outputs</b>	< 3 V at 50 mA
<b>Output Saturation Voltage PNP Outputs</b>	< 3 V at 50 mA
<b>Analog Voltage Output Rating</b>	2.5 k $\Omega$ min. load impedance
<b>Max Discrete (Switched) Output (mA)</b>	50
<b>Discrete (Switched) Outputs</b>	1 NPN/PNP Configurable
<b>Output Protection</b>	Protected against short circuit
<b>IP Rating</b>	IP67
<b>Max Operating Temperature (°C)</b>	65
<b>Min Operating Temperature (°C)</b>	-40
<b>Max Op. Relative Humidity Non-Condensing (%)</b>	95 at 50°C
<b>Minimum Response Time (ms)</b>	6
<b>Analog Linearity (mm)</b>	+/- 4 mm from 300 to 600 mm; +/- 15 mm from 600 mm to 15 m
<b>Barrel Diameter (mm)</b>	M30
<b>Minimum Window Size (mm)</b>	20
<b>Remote Teach and Laser Control Input Impedence</b>	55 k $\Omega$
<b>Discrete Output Hysteresis (mm)</b>	Manually settable from 50 to 15000 mm
<b>Max Off-state Leakage Current (<math>\mu</math>A)</b>	NPN: < 40 at 30 V dc; PNP: < 10 at 30 V dc
<b>Power/Current Consumption (exclusive of load)</b>	100 mA max @ 24 V dc
<b>Supply Protection Circuitry</b>	Protected against reverse polarity and transient overvoltages





<b>Feature: Remote Teach</b>	Yes
<b>Feature: Clear Object Detection</b>	Yes
<b>Feature: Timing (Hold/Delay)</b>	Yes
<b>Feature: Chemical Resistant</b>	No
<b>Feature: Quick Disconnect</b>	Yes
<b>Common Ethernet Protocol</b>	No
<b>IO Link</b>	Yes
<b>PROFINET</b>	No
<b>RS-232</b>	No
<b>RS-422</b>	No
<b>RS-485</b>	No
<b>SSI</b>	No
<b>Wireless</b>	No
<b>1-wire Serial Interface</b>	No
<b>Profibus</b>	No
<b>Cert: US</b>	Yes
<b>Cert: Australia/New Zealand</b>	Yes
<b>Cert: European</b>	Yes

## COMPATIBLE PRODUCTS

### BRACKET

	<p><b>SAFT30R-PVC-G2</b></p> <p>Accessory: For R-GAGE T30R Series M30 x 1.5 to 2 in NPT PVC With Retainer</p>
	<p><b>SMB1815SF</b></p> <p>Bracket: Swivel with set screws for mounting Black reinforced thermoplastic polyester Used for mounting of T18 or T30 by its cable hub 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>SMB30C</b></p> <p>Bracket: Stainless Steel Mounting  Material: Black VALOX  30 mm split clamp  Hardware included</p>
	<p><b>SMB30FA</b></p> <p>SMB30FA Bracket: Swivel with Tilt and Pan Movement 30 mm Mounting Hole 3/8-16x2in Bolt Thread Mount</p>
	<p><b>SMB30FAM10</b></p> <p>SMB30FAM10 Bracket: Swivel with Tilt and Pan Movement 30 mm Mounting Hole M10-1.5x50 Bolt Thread</p>
	<p><b>SMB30FVK</b></p> <p>SMB30FVK Bracket: V-Clamp Flat with Fasteners for Mounting Sensor with 30 mm Threads to Pipe or Extrusions 32.6 mm (1.28 in)</p>
	<p><b>SMB30MM</b></p> <p>Bracket: 30 mm  Material: 12 Gauge Stainless Steel  Curved mounting slot for versatility/orientation  Clearance for M6 (1/4 in) hardware</p>
	<p><b>SMB30RAVK</b></p> <p>Bracket: V-Clamp Mount  30 mm hole to 28 mm tube  Right-angle</p>
	<p><b>SMB30S</b></p> <p>Bracket: Plastic  Material: Black Polyester  30 mm Swivel  Hardware included</p>
	<p><b>SMB30SC</b></p> <p>Bracket: Compact 30 mm Swivel  Black reinforced thermoplastic polyester  Wide Range of Articulation  Hardware included</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>SMBAMS30P</b></p> <p>Bracket: 30 mm flat bracket  Material: 12 Gauge Cold-Rolled Steel  Curved mounting slot for versatility/orientation</p>
	<p><b>SMBAMS30RA</b></p> <p>Bracket: 30 mm Right-Angle  Material: 12 Gauge cold rolled steel  Curved mounting slot for versatility/orientation</p>
	<p><b>SMBT30RTM</b></p> <p>Bracket: Tank Level, Horizontal Mounting  Material: 12 Gauge Stainless Steel  T mounting slots for versatility/orientation  Clearance for M6 (1/4 in) hardware</p>

## PRO CONVERTER CABLE

	<p><b>PRO-KIT</b></p> <p>DK-Pro Series Accessory Kit Includes  Converter Cable, Splitter  and Power Supply</p>
---	--

## DOUBLE-ENDED CORDSETS

	<p><b>MQDEC3-506SS</b></p> <p>Cordset A-Code M12 to A-Code M12 Double Ended  5-pin Straight Male; 5-pin Straight Female Connectors with Shield  1.83 m (6.00 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC3-515SS</b></p> <p>Cordset A-Code M12 to A-Code M12 Double Ended  5-pin Straight Male; 5-pin Straight Female Connectors with Shield  4.58 m (15.02 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>

	<p><b>MQDEC3-530SS</b></p> <p>Cordset A-Code M12 to A-Code M12 Double Ended  5-pin Straight Male; 5-pin Straight Female Connectors with Shield  9.20 m (30.18 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
---	--

## SINGLE-ENDED CORDSETS

	<p><b>MQDEC2-506</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Straight Female Connector with Shield  2.00 m (6.56 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-506RA</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Right-Angle Female Connector with Shield  2.00 m (6.56 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-515</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Straight Female Connector with Shield  5.00 m (16.40 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-515RA</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Right-Angle Female Connector with Shield  5.00 m (16.40 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-530</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Straight Female Connector with Shield  9.00 m (29.52 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-530RA</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Right-Angle Female Connector with Shield  9.00 m (29.52 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>

	<p><b>MQDEC2-550</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Straight Female Connector with Shield  15.00 m (49.20 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>
	<p><b>MQDEC2-550RA</b></p> <p>Cordset A-Code M12 Single Ended  5-pin Right-Angle Female Connector with Shield  15.00 m (49.20 ft) in Length  Black PVC Jacket, Nickel-Plated Brass Nut</p>

**SPLITTERS**

	<p><b>CSB-M1251M1251B</b></p> <p>M12 Quick Disconnect Splitter Cable  5-pin Straight male M12 0.30 m (1 ft) Trunk  5-pin Straight Female M12 0.30 m (1 ft) Branch 1  5-pin Straight Female M12 0.30 m (1 ft) Branch 2  Nickel-Plated Brass Coupling Nuts Black Jacket</p>
---	---



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