RADAR III Ground speed sensor

The Radar III is the most accurate ground speed sensor in the market.

This third generation ground speed sensor delivers the truest velocity measurement available.

1/3 the size of the Radar II
with no sacrifice in performance

Small, compact design

Easy to install

Views actual ground surface for accurate speed measurement

Can be mounted to look forward or backward from vehicle

Backed by the Power of DICKEY-john

When you buy the Radar III, you get dependability and reliability you expect from DICKEY-john.

DICKEY-john's advanced technology and superior electronics are backed by a team of expert, in-house mechanical, electrical, software, and test engineers.

CERTIFIED ISO-9001 INTERTEK CERTIFICATION

DICKEY-john® CORPORATION

Revolutionizing Electronics

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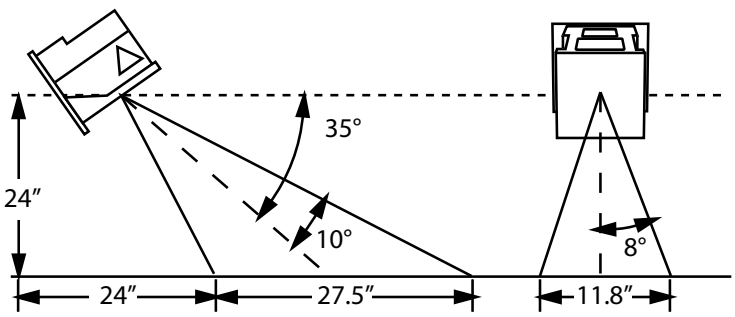
RADAR III Ground Speed Sensor

SPECIFICATIONS

Velocity Range	.53 - 107.8 km/h (.33 - 67 mph) for 44 Hz/mph output frequency .42 - 107.8 km/h (.26-67 mph) for 59 Hz/mph output frequency
Accuracy	True Velocity errors of: ≤ ± 3% .53 - 3.2 km/h (.33 - 2 mph) ≤ ± 1% 3.2 - 70.8 km/h (2-67 mph) (Based on in-field system calibration)
Response, Output Speed	≤ 200 milliseconds lag for combo filter selection (dv/dt = 6.4 km/h/sec (4.4 mph/sec))
Turn ON/OFF Delay	≤ 305 mm (12 inches) distance traversed, typical
Footprint, Target	Elliptical, 368 mm (14.5 inches) minor axis by 546 mm (21.5 inches) major axis {at 601mm (24 inches) mounting height}
Mounting Angle	35 ± 5° depressed from horizontal (from target surface)
Mounting Height	457 - 1219 mm (18-48 inches) 610 mm (24 inches) nominal (from target surface)
DC Power Requirements	+VB (Unregulated battery voltage) 〈+9 to 16 VDC @ ≤ .6 Amp〉 〈18 to 32 VDC @ ≤ .6 Amp〉
Output Signal Characteristics	VOH (High level ouput signal voltage in VDC) VOL (Low level output signal voltage in VDC) IOH (High level output source current in ma) IOL (Low level output sink current in ma) 〈VOH ≃ (+VB -1.5 VDC) -1.051 (IOH) VOL ≤ .7 VDC @ IOL ≤ 6 ma〉 〈VOH ≃ (12.8 ± 1.0 VDC) - 1.051 (IOH) VOL ≤ 1.0 VDC @ IOL ≤ 6 ma〉
Output Frequency	Factory selectable options: 36.60 Hz/Km/h (59 Hz/mph) 27.45 Hz/Km/h (44 Hz/mph) 17.20 Hz/Km/h (27.62 Hz/mph) 10.25 Hz/Km/h (17.034 Hz/mph)
Signal Output Filter Options	Slow/Fast combo Slow (nominal .250 sec.) Fast (nominal .060 sec.) Superfast (nominal .014 sec.)
Output Stage Characteristics	Transient/short protected NPN transistor Z_{OH} (High level ouput source impedance) Z_{OL} (Low level output sink impedance) Z_{OH} ~ 1051 ohms Z_{OL} ~ 63 ohms
Microwave Frequency	24.125 GHz ± 50 MHz except U.K. which is 24.300 GHz
Microwave Power Level	5mw, nominal
Overall Size	103 x 86 x 79 mm (4 x 3.4 x 3.1 inches)
Weight	.5 kg (1 lbs)
Environmental Compliance	EN ISO 14982 ASAE EP-455 Product is immuned to reverse polarity, EMI, and electrical transients such as load dump, alternator field decay, inductive load switching, etc. Operating temperature: -40° to +85°C. Environmentally durable, i.e., not affected by chemicals, dust, salt spray, rain and wash. Operational vibration limits with isolation mounts 0.75 g from 200Hz - 350Hz, 3 g from 351Hz - 2000Hz.
Connector	Many options are available. The standard +12V unit is as follows: Amp 206429-1 (Mating Connector AMP 206430-2) Pin 1 Ground - Black Pin 2 Signal Out - Green 0 - 12 VDC Symmetrical Squarewave Pin 3 +12 VDC - Red Pin 4 Radar Presence Note: Pin 3 and Pin 4 are jumpered at the connector. Approvals: e-mark certification # e24_021030 Industry Canada cert. # 5682A-RVSIII FCCID: 57H8LRDJRVSIII



Note: ≤ means less than or equal to.

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