

R600V.DAH5-11205779

Off-Highway radar sensor Article number: 11205779

Overview

- Superior measurement speed and accuracy
- Heavy duty connector, lens protection Rectangular flat backside mounting
- Tested according to the highest off-highway industry standards
- Robust against environmental influences such as wind, temperature,
- Sensor with CAN SAE J1939 interface



Picture similar



Technical data		
General data		Electrical data
Scanning range Sd	0.3 8.5 m	Reverse polarity protection
Version	Single-object	Output circuit
Repeat accuracy (filter act-	< 1 mm	Mechanical data
ive)		Design
Temperature drift	<± 10 mm (Full Scale)	Housing material
Power on indication	LED green	
Carrier frequency	122 123 GHz	Width / diameter
Band width	1 GHz	Height / length
Linearity error	± 4 mm	Depth
Modulation type	FMCW	Connection types
Transmitting power (EIRP)	< +20 dBm	Tightening torque max.
Aperture angle	6°	Ambient conditions
MTTF	> 126 years	Operating temperature
Approvals/certificates	FCC / CFR-47 part 15 (USA) RSS-210 Issue 10 (Canada) EN 305 550-1 V.1.2.1 (European Union) EN 305 550-2 V.1.2.1 (European Union) EN 61000-6-2 EN 61000-6-3 EN 50581 EN 13309	Storage temperature
		Protection class
		Shock (semi-sinusoidal)
		Particle impact
	EN ISO 14982 ISO 13766	Random vibration
Electrical data		
Voltage supply range +Vs	9 32 VDC	0.11
Current consumption max. (no load)	160 mA	Salt environment
Baud rate	250 kBaud (500 kBaud)	Chemical resistance
Output rate	1 100 Hz	
Short circuit protection	Yes	Combined environment

Electrical data	
Reverse polarity protection	Yes, Vs to GND
Output circuit	CAN (5 V), CAN SAE J1939
Mechanical data	
Design	Cubic with M6 mounting holes
Housing material	Polyamid (glass fiber reinforced), aluminium
Width / diameter	97 mm
Height / length	84 mm
Depth	42.5 mm
Connection types	Connector AMPSEAL 16 4 pin
Tightening torque max.	15 Nm (min. 12 Nm)
Ambient conditions	
Operating temperature	-40 +70 °C
Storage temperature	-40 +85 °C
Protection class	IP 69K IP 68
Shock (semi-sinusoidal)	50 g / 11 ms, 18 jolts per axis and direction
Particle impact	Gravel acc. to EN 11124-2: gravel pressure 2 bar, 2 cycles
Random vibration	IEC 60068-2-64 Frequency: 5 2000 Hz Overall Grms: 11,55 Grms Axis: all 3 axes / 8h per axis
Salt environment	ISO 9227 48h / +35 °C / pH=6,5 7,2 / 5 % sodium chloride solution
Chemical resistance	Brush test with typical chemicals in agri- culture, mobile machines (soak 168h)
Combined environment	32 VDC / -40 +85 °C / 0 70 % RH: 100 cycles / 12h per cycle



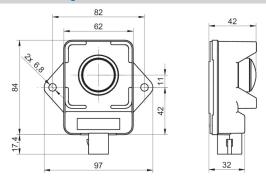
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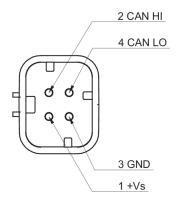
Remarks

- EN 13309 1) 3)
- EN ISO 14982 1) 2)
- EN 13766 1)
- 1) only for use in machines with centralized load dump suppression (35 V @ 12 VDC vehicle power, 58 V @ 24 VDC vehicle power)
- 2) shall not be used in the direct control and modification of the state of function of the machine
- 3) not for operations during engine start phase in 12 VDC / 24 VDC vehicle power
- For Brazil there is currently no type approval required

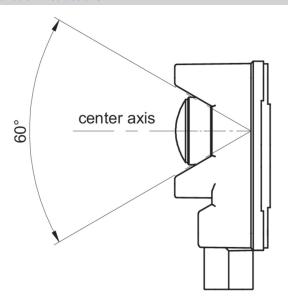
Dimension drawing



Pin assignment



Installation instructions



Objects within a rotational cone of \pm 30 ° may be picked up by the sensor depending on position and/or surface properties. When mounting behind a cover material properties and thickness must be taken into account to avoid excessive damping of the signal. Coatings containing metal must be avoided. The effect of objects in the defined free area must be verified in the application. Loose objects should be avoided.