GPS Speed Converter -CAN



The GPS Speed Converter - CAN, developed by Sioux Logena answers the need in the market for specific signals on the CAN-bus system.

Often we see in specific markets such as marine, special- or off highway vehicles the need for specific signals on the CAN-bus system. The Sioux Logena GPS Speed Converter - CAN, converts GPS signals into a J1939 CAN message.

Vehicle Direction/Speed message, time date message, Vehicle Position message, will become available on the CAN-bus system. Also it will generate a speed pulse signal to drive your speedometer.

Knowledge and expertise

Sioux Logena is specialised in developing and integrating software and hardware applications in the automotive industry. With our expert knowledge, Sioux Logena is the technical partner of leading companies in the market. Also specific products like the Logena Tachograph Replacement Unit and a Door Control Unit, help us to support our clients.



Connections

Speed pulse output for a speedometer
1x CAN

Features

- 8 16 V DC (optional 8 32 V DC)
- GP ABS sealed housing
- L1 frequency, C/A code
- TTFF ~ 1s hot fix
- Multicolour status LED
- GPS Accuracy (Unaided) Position: 2.5 m
- CAN J1939 messages:
 - o Time/date message o Vehicle direction/speed message
 - o venicle direction/speed messag
 - o Vehicle position message



SOURCE OF YOUR TECHNOLOGY

Technical Specifications

Specifications	
Product name	GPS Speed Converter CAN - Analogue
Sioux Logena part number	1000702
Power Supply	
Operating supply voltage range	8 - 16 V DC
Maximum peak voltage	60V for 100ms
Power consumption (operating)	< 10 mA at 12 V > 10mA at 24v
Handstein allementaristics	
Hardware characteristics	
Environmental protection class	1163
Operating temperature range	-30 to +85 °C
Storage temperature range	-40 to +85 °C
EMC specification	Pre-compliant with Automotive directive 2004/104/EC: • Radiated and conducted emission • Radiated and conducted immunity
RoHS compliant	Yes
Connection	Open wire ends
Dimensions	76.30 x 35.00 x 15.00 mm (L x W x H)
Weight	50 grams
Housing	GP ABS material, sealed
Color	Black Enclosure - BAL 9011 - UL94 - HB
Becommended screw torque	15-20 ozf in (10 - 15 cN m)
Cable Length	2 5m / 8 2ft
	0.25mm2 / 20 awa
Cable thickness	0,20mm2 / 30 awg
GPS Sensor	
Capazal	L1 frequency, C/A code (SPS), 48 channels
General	SiRF/CSR GSD4e Chipset
Update rate	1 Hz fix/s
	Position: 2.5 m (CEP50)
Accuracy (Unaided)	Velocity: 0.01 m/s (50%)
	Cold start (out of the basily 25 e turn
TTFF (Time To First Fix)	Warm start : 35 s tvp.
	Hot start : 1 s typ.
	Acquisition (cold): -147 dBm
Sensitivity	Re-Acquisition: -162 dBm
Outputs	
Speed Signal	0 -10 V; 4 mA @ 0 - 8 kHz
	Orange flashing 1 Hz : Start-up mode, searching for GPS
LED Multicolor	Green : Connected to GPS
	Red : System Failure
Transmitted CAN messages	SPN SPN Name
	959 Seconds
TD - Time / Date (PGN 65254)	960 Minutes 961 Hours
10 - Time / Date (FGIN 00204)	963 Month
	962 Day
	964 Year
	165 Compass Bearing
VDS - Vehicle Direction/Speed (PGN 65256)	517 Navigation-Based Vehicle Speed
VP - Vehicle Position (PGN 65267)	584 Latitude 585 Longitude
	Longhado
Pinning	
White	KL30 (Vbatt)
Red	*KL15 (Ignition) *option
Black	KL31 (GND)
Blue	Speed Signal High
Green	CAN1 - Low
Tellow	



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