

CANSER-GPS Signal Receiver

Module for transcribing GPS data to CAN

CANSER-GPS implements the NMEA-protocol for the GPS-mouse on the CAN-Bus. This makes synchronized capture of measurement and position data (e.g. vehicles, ships, etc.) possible.

Order code: Artikel #

CANSAS-GPS-Signal 1050067

Model:

- Unventilated strand-cast aluminum housing (Short model)
35 x 111 x 90 (W x H x D in mm)
Weight typ. 300 g

Connections

- One permanently configured CAN-Bus output.

Power supply

- Supply voltage 9..32 V DC via (4-pin) Phoenix plug or via CAN-Bus plug
- Automatic independent start upon application of supply voltage
- Power consumption <4,0 W (typ.)

Operating conditions

- Operating temperature: -30°C...85°C condensation allowed
- Shock resistance: 50 g pk over 5ms (without plug)

Included accessories

- GPS mouse with magnetic fastening plate
- GPS-CAN converter
- 4-pin connection terminal for 9-32 V_{DC} power supply (CAN/Power connector)
- Technical Spec sheet
- Configuration file (CBA) on CD
- Test certificate

Properties

- The module receives GPS-signals and sends them to the CAN-Bus in a permanently configured mapping
- Bus speed 500 kBaud (Standard)

Additional options and accessories

- Depending on the model, the modules can be either attached together to form stacks or installed in racks; see the document "*CANSAS Installation and Assembly*" for more on these options.
- Configuration of the conversion to CAN-Bus messages is performed at factory upon order.

CANSER-GPS

Technical Specs CANSER GPS

Parameter	Value (typ. / max)	Remarks
Supply voltage	9..32 V DC	
Power consumption	<4 W	23°C
operating temperature	-30°C...85°C	
Dimensions (W x H x D)	35 x 111 x 90 mm	
Connection terminals	2 x DSUB-9 2 x DSUB-9 PHOENIX (MC 1,5/4STF-3,81)	outputs CAN (in/out) supply

Encoding of reception signals:

Message	ID	Byte	Remarks
Time	2020	0-3	Long
Date	2020	4-7	Long
Longitude	2021	0-3	Real; negative for Western Hemisphere
Latitude	2021	4-7	Real; negative for Southern Hemisphere
Velocity	2022	0-3	Real; unit: knots
Direction (course over ground)	2022	4-7	Real; direction in °
Elevation (above sea level)	2023	0-3	Real; in m
Satellite count	2023	4-5	Integer; number of satellites used
Status	2023	6-7	1: valid; 0: maintenance