world pro | racing series | controls

texense
world pro by TEXYS

A-CAN-Dongle-V2

Analog to CAN converter 8 Analog + 2 Digital Inputs

Analog inputs	
- range	0 to 5 V or ± 10V *1
- resolution 16 bits	0.076 or 0.305 mV/bit
- Pull-up	Internal
- Accuracy	0.5 %FS (-40 to +110°C) 2 %FS (+110 to +125°C)
Filter (optional) *2	
- type	Low pass linear phase 5th order
- Cut off frequency	Programmable from 15 to 250 Hz

*1 For ±10V input range, filter option is not available

*2 If filter option is used:
- the speed inputs are disabled
- pin 11 and 12 must not be connected
- frame Tx3 not sent

Digital inputs	
- square wave level	0 to 5 V or NPN open collector
- Pull up to 5V	1 MΩ
- Max frequency *3	8 KHz
- Tops	1 to 100 Tops/rev

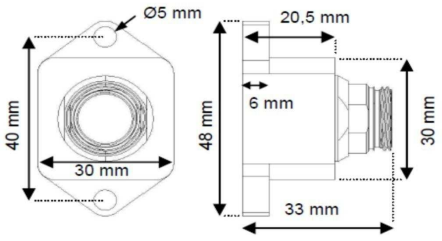
*3 Check max frequency for digital inputs as below:
Ex1: 8000rpm with 48 tops/rev →8000/60x48 = 6.4KHz.
Ex2: 360km/h with 2m wheel circumference and 100 tops/rev →360/3.6 /2 x100 = 5 KHz.

Wheel Speed *2	
- range	0 to 500 km/h - 0 to 500 mph
- Circumference	300 to 5000 rev/mm
- Wheel tops/rev.	1 to 100 top/rev
- resolution	0.01 kmh/bit - 0.01 mph/bit
Engine Revs	
- range	0 to 20000 rpm
- Engine tops/rev.	1 to 100 top/rev
- resolution	1 Rpm/bit
Analog sampling and speed calculation /channel	500 Hz
CAN bus 2.0 A or B	120 Ω, not installed (on demand)
Output data	16 bits per channel
Baud rate	125 k to 1Mbps
Frequency	1 Hz to 500 Hz, request mode 500Hz with baudrate 1Mbps only
Supply voltage	6 to 16 V
Supply current	35 mA
Dimensions	48 x 30 x 33 mm
Material	Aluminum
Weight	45 g
Protection	IP67
Vibration test	20 Gpp 5'
Operating temp	-40 to +125°C
Storage temp	-40 to +125°C

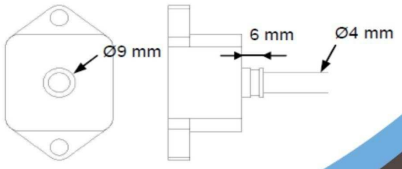
Function / Color	Description	Pin
Supply	Supply (6 to 16 V)	1
	GND*	2
Analog Inputs	Channel 1	3
	Channel 2	4
	Channel 3	5
	Channel 4	6
	Channel 5	7
	Channel 6	8
	Channel 7	9
	Channel 8	10
Digital Inputs	Wheel Speed	11
	Engine Speed	12
CAN	CAN HIGH	13
	CAN LOW	14
manufacturer reserved	do not connect	15
Sensor supply	Protected supply (6 to 16 V)	16
	5V	17
	GND*	18
	GND*	19

* Ground pins are internally connected

Standard version:
Connector: LEMO HES.2M.319.XLDP
Mating connector: LEMO FGS.2M.319.XLM



☐ **Cable option:**
Cable: 19 AWG 28 RW-200-E-3/16



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