

# Display - Cougar

CAN & Stand Alone



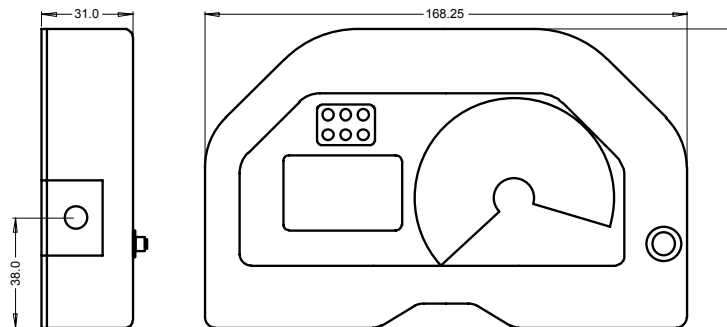
## Description

The Cougar dashboard is able to function as a completely independent 'stand alone' information panel. It is also able to function as a remote display panel as part of a CAN network; in this CAN mode the display is able to both receive external channels, and transmit it's own internal channels back onto the CAN line. This data sheet relates primarily to function in CAN mode.



Because this dashboard is able to operate 'stand alone' all sensor input calibration is carried out internally for the direct inputs. The same applies for the digital inputs of Speed, RPM & thermocouples.

## Dimensions



## Technical Data

### RPM input

Frequency range..... 10 > 2 KHz  
 Resolution..... 2 ms  
 Pull up toVbat ..... 10 KΩ  
 Sensor types available.....Hall / Magnetic

### Speed input

Frequency range..... 10 > 2 KHz  
 Resolution..... 2 ms  
 Pull up toVbat ..... 10 KΩ  
 Counter..... 16 bit  
 Sensor types available..... Hall / Magnetic

### Analogue channels

No..... 6  
 Range..... 0-5 v  
 Resolution..... 10 bit  
 TCK..... Inputs 2 & 3

### Lap beacon

TTL compatible.....yes  
 Detection..... positive edge  
 Re-Arm delay..... 10 sec  
 Resolution..... 1/100 sec

### Electrical

Supply.....9 > 16 Vdc  
 Current – Typ ..... 160 mA  
 Vref ..... 5v (50mA)  
 Vbat out..... Vbatt – 0.6v  
 Max output ..... 1 A

### Mechanical

Operating temperature .....0 > 65 °c  
 Housing.....ABS  
 Weight.....330 g

### CAN mapping

IN1 .....48 – 10Hz  
 IN2 .....49 – 10Hz  
 IN3 .....50 – 10Hz  
 IN4 .....51 – 10Hz  
 IN5 .....52 – 10Hz  
 IN6 .....53 – 10Hz  
 Vbatt.....54 – 10Hz  
 Lap.....55 – 10Hz  
 RPM.....56 – 20hz  
 Speed.....57 – 20hz  
 Space.....58 – 20Hz  
 RPM-rx..... 0x107

## Ordering information

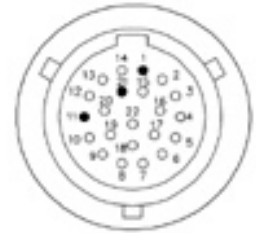
Part No.	Description	Order Code
903.02.734.e01	Dashboard with analogue RPM dial	Cougar

*RPM range to be specified at the time of ordering*

For further details please contact	
Competition Systems Ltd Hyjuniper, Long Lane Shaw, Berkshire, RG14 2TA England	Tel: +44 (0)8707 444666 Fax: +44 (0)8707 444888 mail@competitionsystems.co.uk

## Electrical connections

Loom connector – AS6 12 35 SN			
1	Vbat	12	Input 2 (tck 1)
2	Speed	13	Input 2 (tck 2)
3	RPM	14	Input 4
4	Gnd- Digital	15	Agnd
5	Lap marker beacon	16	Input 6
6	V batt out	17	Agnd
7	CAN P	18	Gnd – digital
8	CAN N	19	Input 5
9	232 TX	20	Agnd – tck 1
10	232 RX	21	Agnd – tck 2
11	Input 1	22	5v Vref



Loom connector ..... AS6 12 35 SN (supplied with dashboard)  
 Dash connector ..... AS1 12 35 PN  
 Lead length ..... 20cm

## Dip switches

- 1 ..... Pull up IN6
- 2 ..... Pull up IN5
- 3 ..... Pull up IN4
- 4 ..... Pull up IN3
- 5 ..... Pull up IN2
- 6 ..... TCK on IN2
- 7 ..... TCK on IN3
- 8 ..... Code load

## Mounting

