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ELFA

PRODUKTINFORMATION

Vi reserverar oss mot fel samt förbehåller oss rätten till ändringar utan föregående meddelande

ELFA artikelnr

73-093-70 CRS 03-02 gyroscope

CRS03

The CRS03 has been selected for consumer and industrial programmes worldwide.

In order to meet these environments, the sensor has a vibrating element made of silicon

- a material stronger than steel (under its own weight), but only one third the weight.

The silicon is deep trench etched to produce an accurate micromachined planar sensor, which is combined with control electronics to provide a DC output proportional to rate of turn



Key Features and Benefits

- Low parts count and design simplicity for high reliability
- Robust and lightweight sensor
- Low cost and small
- Pin and connector output available

Specification Guide

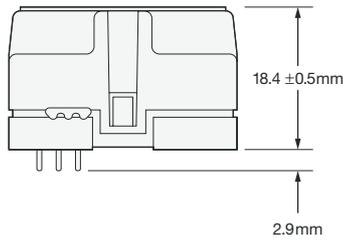
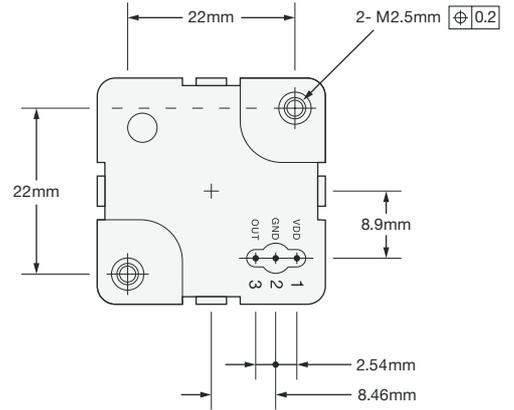
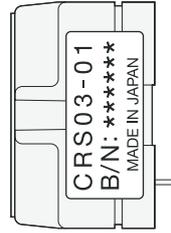
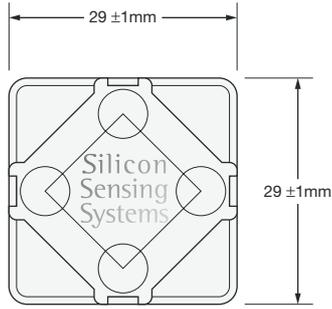
CRS03-01/02

Rate range	$\pm 100^\circ/\text{s}$
Scale factor	20 mV/ $^\circ/\text{s}$
Scale factor variation over temperature	$\pm 3\%$
Bias (setting tolerance)	± 100 mV
Bias (over temperature)	$\pm 10^\circ/\text{s}$
Ready time	0.5 sec.
Bandwidth	10Hz
Quiescent noise (typical)	1 mV (rms)
Operating Temperature	-25°C to $+85^\circ\text{C}$
Operating Shock	200G's 1 ms $\frac{1}{2}$ sine
Operating voltage	+4.75V to +5.25V (ratiometric)
Operating current	$< \pm 50$ mA
Mass	25g

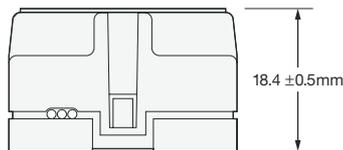
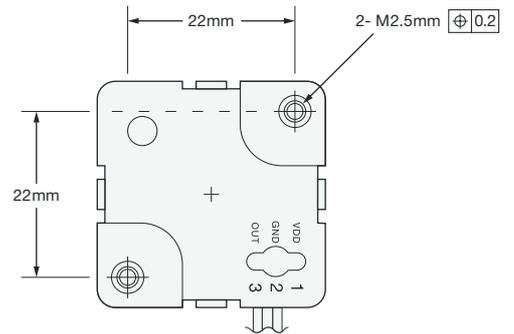
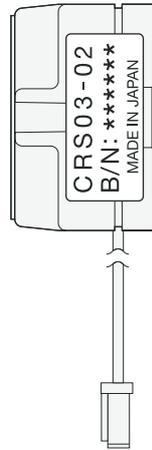
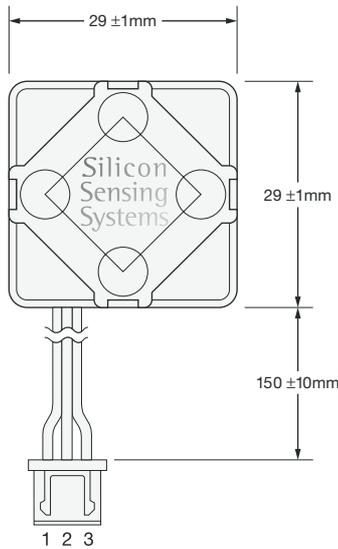
Specification subject to change without notice.



CRS03



CRS03-01 Pin Connections		
Pin Number	Signal	Comment
1	VDD	5V
2	GND	0V
3	OUT	Rate Output



CRS03-02 Pin Connections		
Pin Number	Signal	Comment
1	VDD	5V
2	GND	0V
3	OUT	Rate Output



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