

# 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

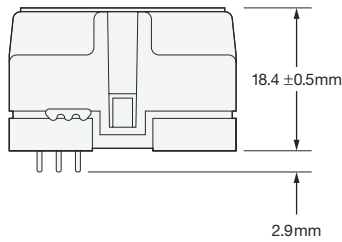
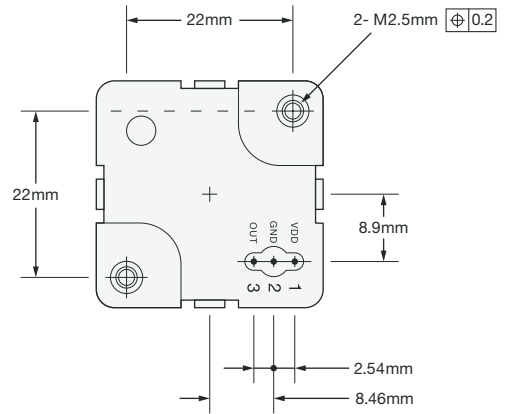
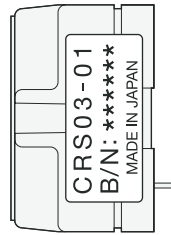
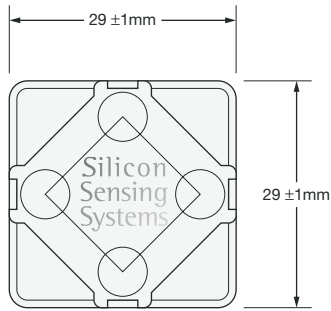
## CRS03-01/02

Rate range	$\pm 100^\circ/\text{s}$
Scale factor	20 mV/ $^\circ/\text{s}$
Scale factor variation over temperature	$\pm 3\%$
Bias (setting tolerance)	$\pm 100$ mV
Bias (over temperature)	$\pm 10^\circ/\text{s}$
Ready time	0.5 sec.
Bandwidth	10Hz
Quiescent noise (typical)	1 mV (rms)
Operating Temperature	$-25^\circ\text{C}$ 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.*

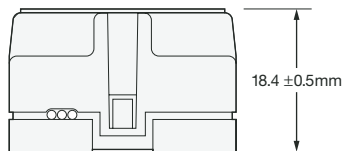
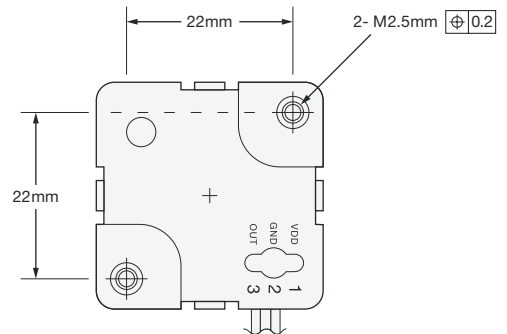
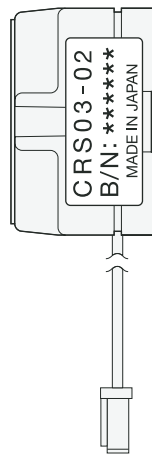
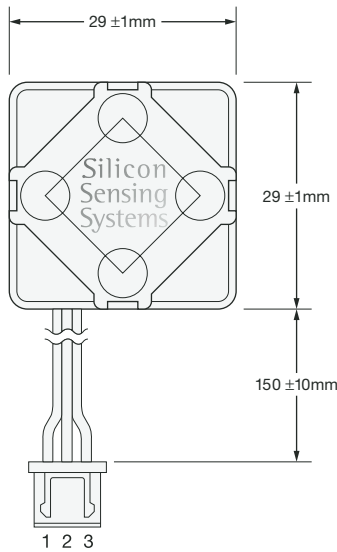


# CRS03



### 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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