

2002-01-14

# ELFA

## PRODUKTINFORMATION

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

**ELFA artikelnr**

**73-093-88 CRS 04-01 gyroscope**

# CRS04



The CRS04 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
- Command BIT
- BITE

## Specification Guide

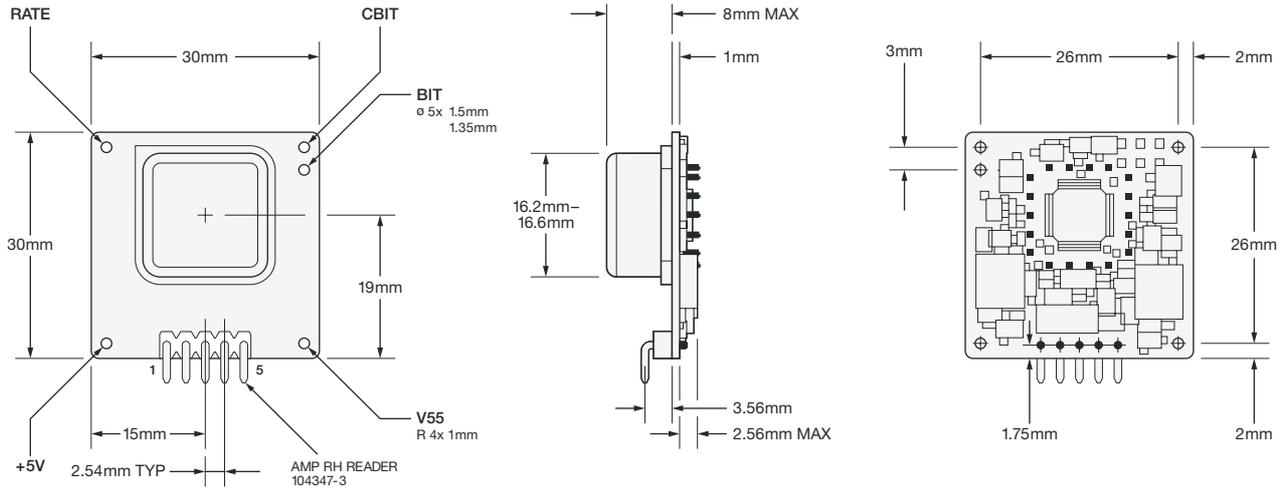
## CRS04

Rate range	$\pm 150^\circ/\text{s}$
Scale factor	12.75 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	85Hz
Quiescent noise (typical)	0.75 $^\circ/\text{s}$ (rms)
Operating Temperature	$-25^\circ\text{C}$ to $+85^\circ\text{C}$
Operating Shock	200G's 1 ms $\frac{1}{2}$ sine
Operating voltage	+4.85V to +5.15V
Operating current	$< \pm 35$ mA
Mass	12g

*Specification subject to change without notice.*



# CRS04



Interconnections	
Pin Number	Function
1	+VDC
2	Rate Output
3	Command BIT input
4	BITE output
5	Ground



Silicon Sensing Systems

**Plymouth, England** Tel. +44(0)1752 723330 Fax.+44(0)1752 723331  
**Amagasaki, Japan** Tel. +81 6 6489 5868 Fax. +81 6 6489 5910  
 email: sales@SiliconSensing.com • Web site: www.SiliconSensing.com