

*Using breakthrough technology,  
we aim for products that will create new markets.*

## New Product News

The most compact in this category

# Compact and light weight, stable output from low to high temperature



### • Development goals:

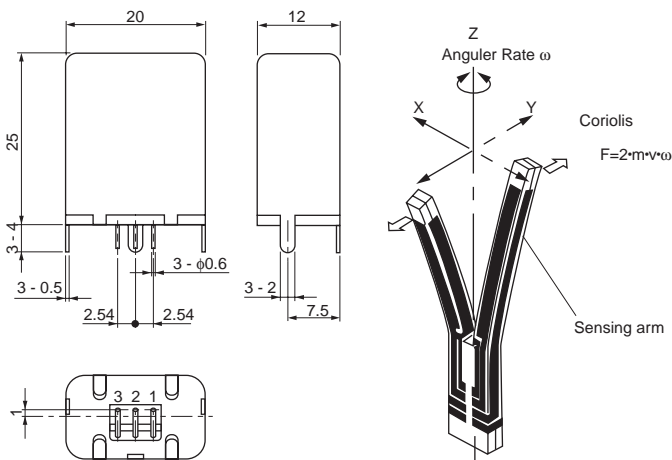
Developing the compact and high performance Angular Rate Sensor utilizing the quartz tuning fork

### • Features:

- ① The smallest owing to the quartz tuning fork
- ② Stable out put due to the single crystal quartz
- ③ Digital calibration for DC offset and sensitivity

• Number of industrial property rights: 8

### • Construction:



### • Characteristics/specifications:

#### ●Electrical Characteristics

Items	Specifications
Operating Temperature Range	-40 to +85°C
Supply Voltage Range	5.00±0.25V
Zero Point Voltage (-40 to +85°C)	2.5±0.4V
Sensitivity	25mV/deg/s
Frequency Response (7Hz)	> -4dB
Output Voltage Range	0.3 to 4.7V
Output Noise	< 10mVpp

#### ●Environmental Characteristics

Items	Specifications
LOW Temperature Operation	-40°C for 72h
HIGH Temperature Operation	+85°C for 120h
Heat Shock	-40 to +85°C for 25cycle
Heat and Damp Cycling Test	-10 to +60°C at 90%RH for 5 cycle
Life (Operating Durability)	2Hz, 1×10 <sup>7</sup> cycle

### • Applications/usage examples:

- Detection of a vehicle moving direction for navigation
- Orientation controls in various in industrial equipment

### • Explanation of part numbers:

1	2	3	4	5	6	7	8	9
E	W	T	S	7				
Product Code				Type	Custom Code			