

SG: SHOCK SENSORS



SG3N2-G

The shock sensors are devices that change the outlet status of their circuit when shocks or vibrations are sensed. They are normally used to prevent breaking of mechanical actuators (linear and rotating). Using the MEMS (Micro Electro Mechanical System) technology, these sensors can monitor system vibrations and, each time vibrations exceed a certain threshold preset on the sensor, the circuit commu-

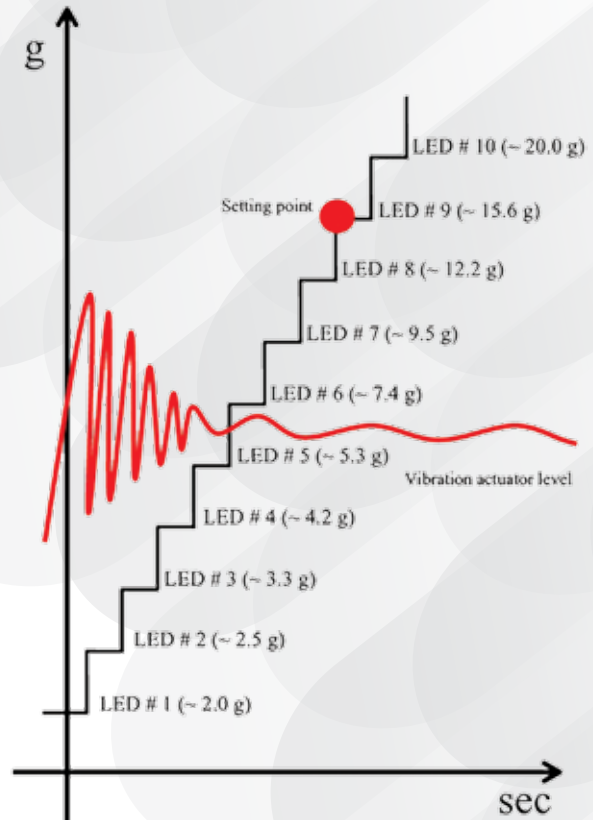
tates the output, enabling the PLC (Programmable Logic Controller) control electronics to intervene and remove the defect. The sensor has a special lay-out to be easily fitted on all actuators. The connection is also made easier by the M8 connector. Our custom service is at your disposal to meet specific requirements for which standard products are not satisfactory.



Application

The SHOCK sensors are special shock detection sensors made to avoid component failures on different kind of actuators. When a shock absorber or a brake system is broken the vibration goes high till broke the actuator and other components around it.

Every time the value of the shock exceeds the maximum pre-set value, the sensor changes the output status (RED LED is ON) giving the possibility to stop the motion.



Sensor with M8 connector	SG3A2-G	SG3N2-G	SG3M2-G
Sensor type	Analog output	10 levels settable PNP output	10 levels settable NPN output
Full-scale	35 g		
Vibration axis	X;Y		
Power supply	15 ÷ 30 Vdc	12 ÷ 30 Vdc	
Nominal operate point	0÷35 g (~270 mV/g)	2.0g; 2.5g; 3.3g; 4.2g; 5.3g; 7.4g; 9.5; 12.2g; 15.6; 20.0g	
Brown BW (+); Blue BL (-) Black BK (OUT)	OUTPUT		