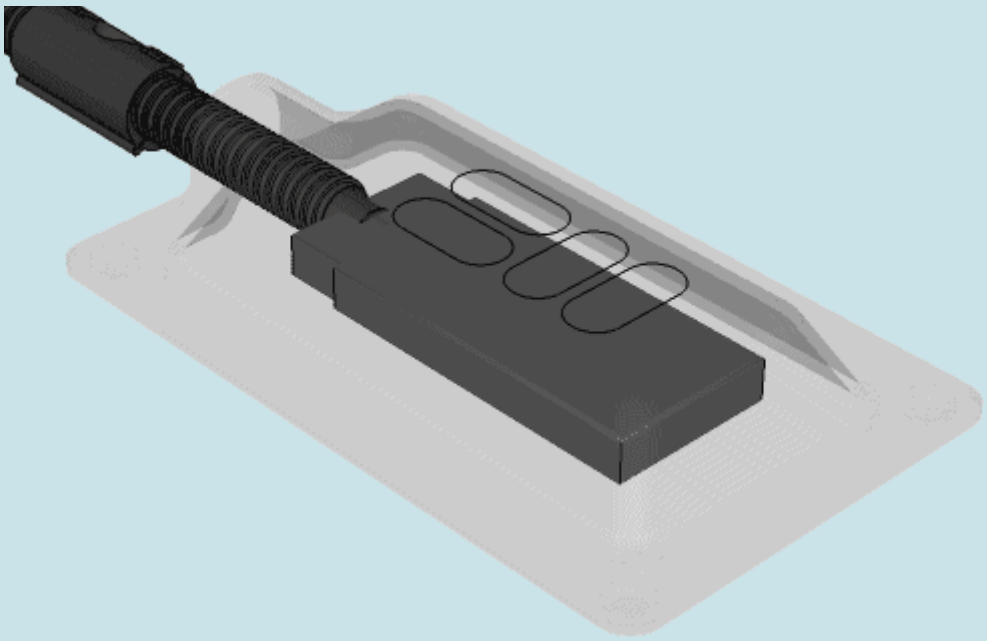
SG sensor

Kimax Accessory



SG SENSOR PART NUMBERS:
SG sensor CL
P/N 10208 3 m extension cable
P/N 10209 5 m extension cable
P/N 10250 double SG sensor 8 m extension cable

Stainless steel cover included

Additional you must purchase gluing materials

SG sensor

The SG sensor is a strain gauge based sensor, which transforms the strain of a beam into a measurable current signal.

Axle load sensor

A typical application for the SG sensor is measuring the strain in a front axle of a truck or a bus.

When the SG sensor is connected to the Kimax radio display, the actual axle strain is measured and the axle load can be calculated.

The SG sensor is program-able, through the Sensor Control Unit. You can change slope from positive to negative, you can adjust offset as well as adjust gain of the SG sensor.

How to install

The SG sensor is bonded to the axle in which the strain is to be measured. It is crucial that the bonding to the axle is good. Grease, paint and corrosion protection must be removed before the actual bonding of the SG sensor is carried out directly on the blank steel.

After bonding and test of the functionality of the SG sensor, the sensor has to be sealed and best of all protected by stainless steel cover.

Bonding of the SG sensor can be done with an epoxy glue. We generally recommend using gluing set provided by us

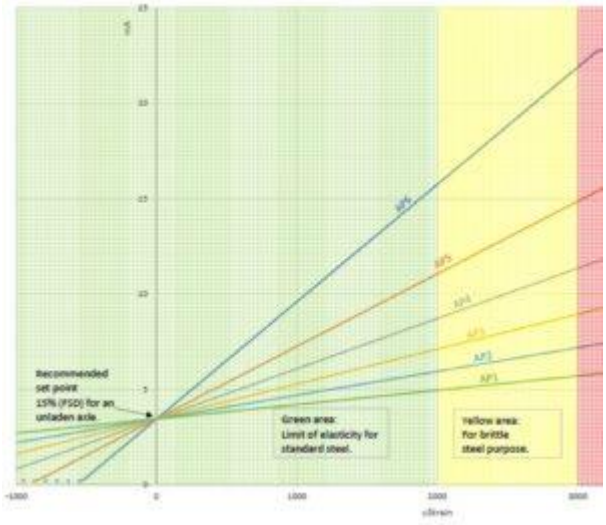
Where to install

Single SG sensors are typically installed on steering front axles for trucks having leaf spring suspension, as well as they are installed on leaf spring suspended trailer axles.

Dual SG sensors are typical installed on spring suspended rear axle systems, by one sensor on the left side spring and one sensor on the right side spring. The two sensors are connected in parallel by an Y-splitter.

Strain measurement

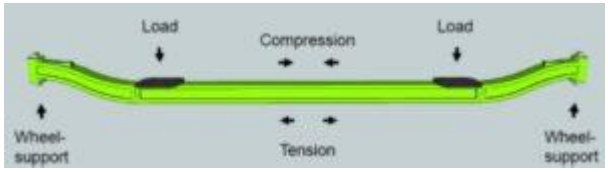
SG sensors use the linear relation between load on an axle and the strain in the axle.



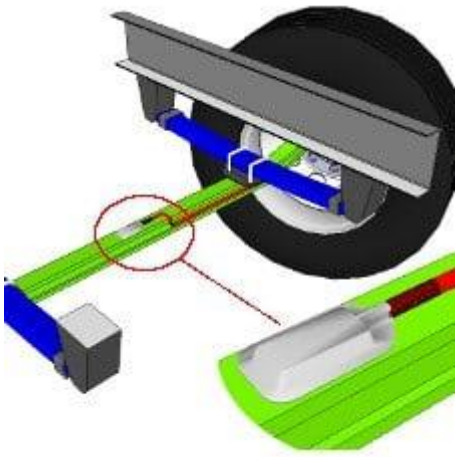
The gain is set by SCU in 6 steps. The output from the unloaded axle is recommended set to 15% of max signal.

BASIC OPERATION

Depending on the load of the axle, the top surface will compress



Typical application for the SG sensor is for leave spring suspended front axles. The sensor is sealed and protected by a stainless steel cover.



Select your P/N for showing detailed specifications