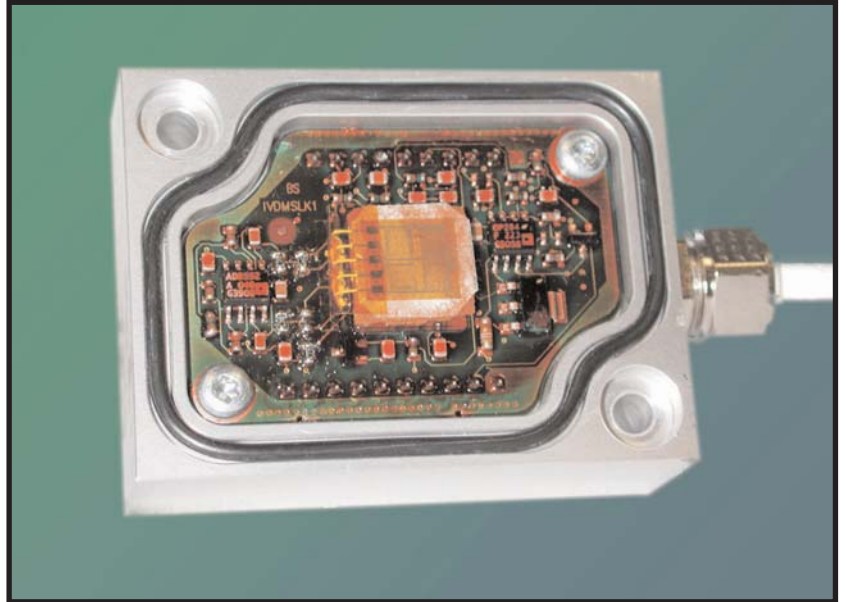


IVDMS strain measurement sensor

It's rare nowadays to find a genuine innovation in strain measurement, but the IVDMS is just that. Until now, measuring the strains in beams (such as on cranes) has been a complicated and fragile process, but this matchbox-sized unit simply has to be glued on and calibrated in software, and readings can be taken immediately.



On the face of the IVDMS is a small strain-gauge 'chip' which is glued to the surface under investigation. Around the edge of the unit is a seal, and two mounting bolts which between them provide IP65 protection for the sensors. A CANbus link to a PC is then used to enable software setup of span and linearity – and that's all there is to the procedure.

Existing metalwork does not need to be modified, as is so often the case in normal approaches, and there's no need to match up strain gauges and amplifiers from different manufacturers, with all the setup difficulties that involves. In addition, the glued contact provides excellent accuracy.

The IVDMS has already been applied successfully in crane loading and fire engine access platform measurements, but is sure to have a wide range of applications as its potential becomes more widely known.

- **Simply glue in place and seal with mounting bolts**
- **No modification of existing metalwork**
- **CANbus connection to PC-based setup software**
- **No need to combine parts from different suppliers**
- **Excellent accuracy**

Sensor-Technik UK Ltd
Unit 10, The Granary
Mill Road, Sharnbrook
Bedfordshire MK44 1NN
Telephone 01234 782049
Fax 01234 782056
sales@sensor-technik.co.uk
www.sensor-technik.co.uk

IVDMS technical data

Measuring range:

$\pm 2,200\mu\text{m/m}$

Overload:

$50,000\mu\text{m/m}$

Linearity:

$<0.5\%$ FS

Repeatability:

$<0.5\%$ FS from sensor to sensor

Temperature stability:

$<0.1\%$ FS/K

Sensitivity:

$<1\%$ FS

Supply voltage:

8–32V DC

Output signal:

CANbus 2.0B

4–20mA

Operating temperature:

-25C to $+85\text{C}$

Storage temperature:

-40C to $+100\text{C}$

Protection rating:

IP65

Connection:

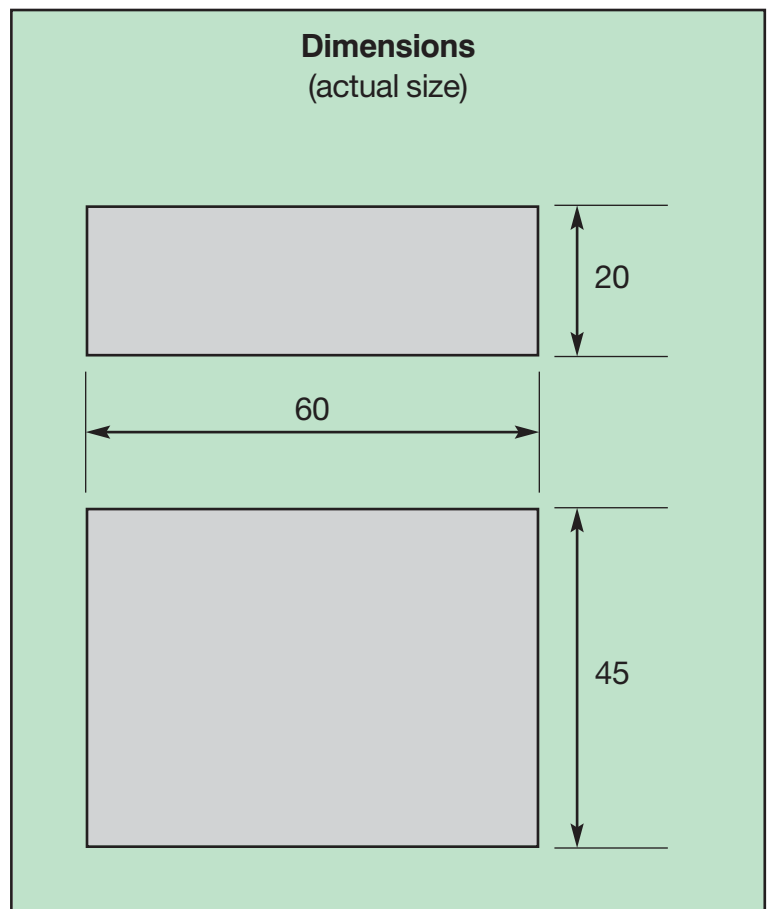
1m cable

EMC:

EN61326

Housing:

Anodised aluminium



We reserve the right to make technical alternations without prior notice