

Single Axis Accelerometer

ENTER ORDER CODE (Subtitle)

PRODUCT DESCRIPTION

Accelerometers are available to measure up to three axes in a single, robust package. The sensing element is a $\pm 50g$ micro-machined MEMS device. An internal amplifier provides an output between 0 and 5 volts.



CABLE & CONNECTION

- 24 AWG un-screened cable
- Cable Length: 1000mm
- Connection:
 - Red wire Supply
 - Green wire Ground
 - White wire Signal

MECHANICAL

- See attached drawing No. D100 345 006 011
- Weight less than 65g (including cable)
- Cable boss for strain relief
- Over range 500g (any axis, powered, for 0.5ms)

ENVIRONMENTAL

- 6AL4V Titanium body and lid
- Resistant to standard motorsport fluids
- Maximum humidity: 100%
- Operating temperature: 0 to +120°C
- Viton jacketed cable

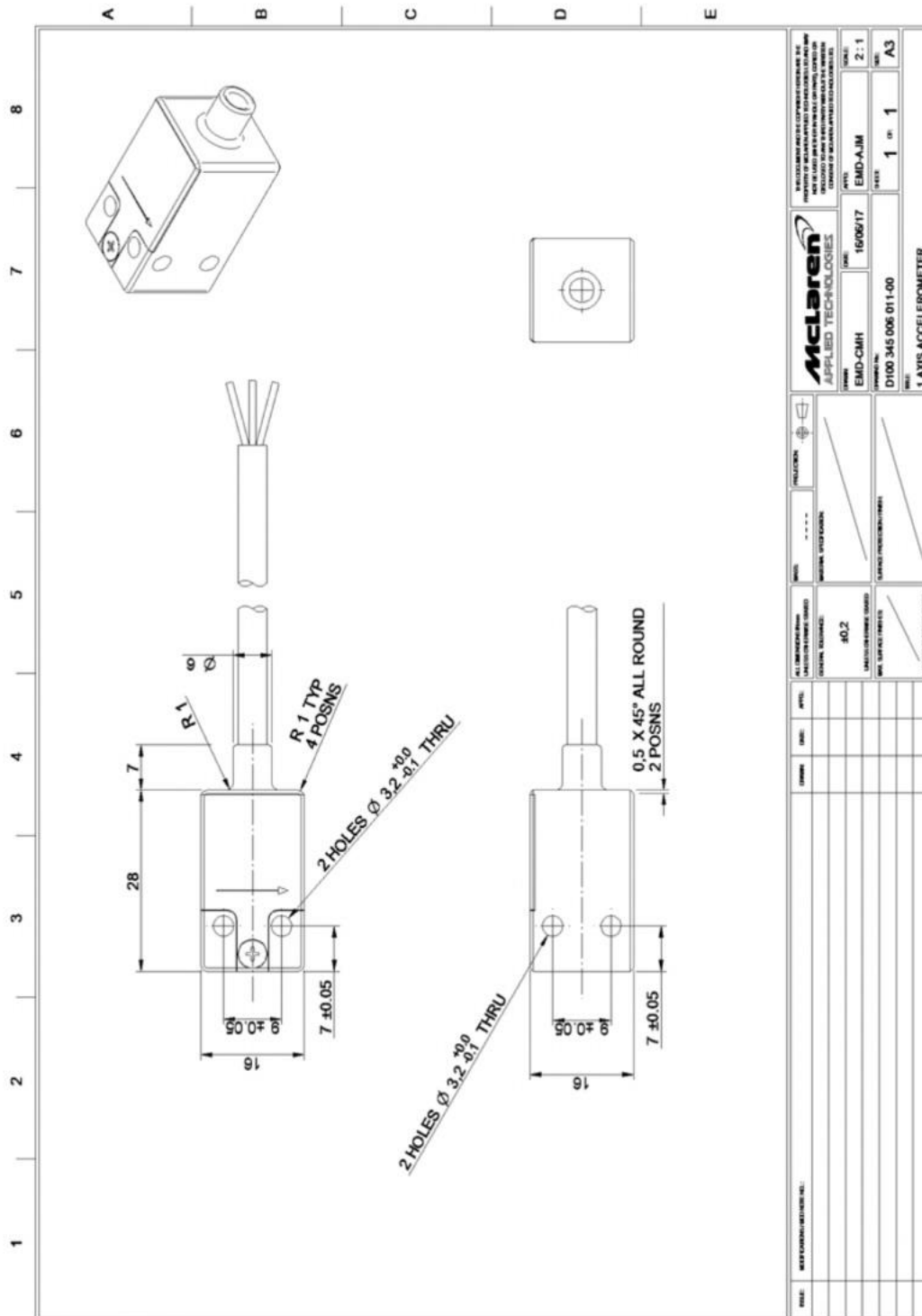
ELECTRICAL

- Supply Voltage: 8 to 16V unregulated
- Range: $\pm 40g$
- Output voltage (per axis):
 - 0.5 $\pm$ 0.1V Acceleration = -40g
 - 2.5 $\pm$ 0.1V Acceleration = 0
 - 4.5 $\pm$ 0.1V Acceleration = +40g
- Sensitivity: 66.6mV/g
- Cross axis sensitivity: $\pm 3.5\%$
- Thermal sensitivity drift: $\pm 2.5\%$
- Frequency response:
 - 3dB at 200Hz, 8 pole Butterworth filter
- Output impedance: 50 Ω
- Current Consumption: <10mA
- Offset drift
 - $\pm 0.65g$ typical
 - +1.00g max

PRODUCT SUMMARY | SCR XXXX | REV YY | LAST UPDATE: DD/MM/YY

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Get in touch

Email: sales@motionapplied.com

Website: www.motionapplied.com