

## Train bogie accelerometer



### Features

- DC response
- 10 full scale
- Motion, low frequency, tilt
- Shock survivability
- Temperature compensation

### Dynamic

FSO, $\pm 10\%$ , 24°C.....	4~20 mA
Acceleration range(g) .....	10
Sensitivity(mA/g).....	0.8
Amplitude nonlinearity.....	1%
Frequency response(+/-5%).....	0 - 100 Hz
Transverse sensitivity, max.....	3% of axial

### Electrical

Power requirement: .....	12 - 30 VDC
Zero current( $\pm 5\%$ ).....	12mA
Residual noise, Broadband Spectral.....	2 $\mu$ ARMS
Output impedance.....	<100 $\Omega$
Insulation resistance(@500VDC).....	>200 M $\Omega$
High-voltage insulation test(@2500VAC).....	>60s
Turn-on time.....	<100 mS

### Environmental

Temperature range.....	-45 to 85°C
Thermal zero shift(max. ref.24°C).....	$\pm 2.5\%$ FSO
Thermal sensitivity shift(max. ref.24°C).....	$\pm 3\%$
Vibration limit.....	100 g peak
Shock limit.....	1,000 g peak
Sealing .....	IP67

### Physical

Sensing element.....	MEMS(VC)
Weight.....	320 grams
Case material.....	Anodized aluminum
Mounting.....	M10X18 Screws
Output connector.....	Option

### Accessories

- 2x M10 Screws (Mounting torque 0.7 Nm)
- 5 Meter mating cable(or customers specified)
- Calibration certificate

### Ordering Information

816-10-3  
 └─ Special cable length(meter)  
 └─ Range in g  
 Model

