Model 797L
Low profile, low frequency IsoRing® accelerometer

Dynamic

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range	10 g peak
Amplitude nonlinearity	1%
Frequency response:	
–5%	0.6 - 850 Hz
–10%	0.4 - 1,500 Hz
–3 dB	0.2 - 3,700 Hz
Resonance frequency	18 kHz
Transverse sensitivity, max	7% of axial
Temperature response:	
–50°C	–8%
+120°C	+5%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz	12 µg
Spectral	2 Hz	2.0 µg/√Hz
	10 Hz	0.6 µg/√Hz
	100 Hz	0.2 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		10 VDC
Grounding		case isolated, internally shielded

Environmental

Temperature range	–50 to 120°C
Vibration limit	250 g peak
Shock limit	2,500 g peak
Electromagnetic sensitivity, equiv. g	5 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.001 g/µstrain

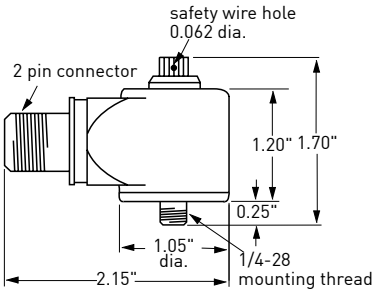
Physical

Sensing element design	PZT ceramic / shear
Weight	148 grams
Case material	316L stainless steel
Mounting	1/4-28 captive socket head screw
Mating connector	R6 type
Recommended cabling	J9T2A

Connector pin	Function	Cable conductor color
shell	ground	shield
A	power/ signal	white
B	common	black

Features

- High sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Low pass filtered to attenuate high frequencies
- Hermetic seal
- ESD protection
- Reverse wiring protection



Accessories supplied: #12105-01 captive socket head (International customers specify mounting requirements); calibration data (level 3)
Options: Intrinsic safety certification

Optional safety approvals

98256 Rev.D.2 6/99

ALTHEN reserves the right to vary the foregoing details without prior notice

ALTHEN Meß- und Sensortechnik

ALTHEN GmbH Mess- und Sensortechnik
Frankfurter Strasse 150 - 152
65779 Kelkheim / Germany
phone: +49 (0)6195 70060
fax: +49 (0)6195 700666
sales@althensensors.com
www.althensensors.com