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TECHNOLOGY GROUP

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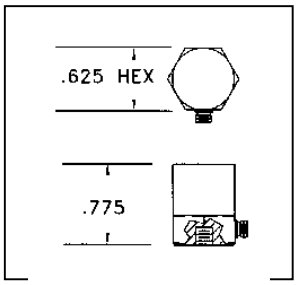
Columbia Research Laboratories, Inc.

General Purpose Accelerometers

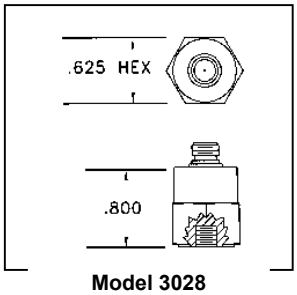
Models 3024 & 3024-HT
3028 & 3028-HT

- *Vibration & Shock
- *Sensitivity 12 pC/g
- *Low Base Strain Sensitivity
- *Top or Side Connector
- *10-32 Mounting





Model 3024



Model 3028

Accessories Supplied:
(1) Miniature Cable Assy, LNHT-10'
(1) 10-32 x 0.375"L Mounting Stud, St Stl
(1) Hardwood Storage Case
(1) Standard Calibration Data
(1) Certificate of Calibration Traceable to N.I.S.T.

The Models 3024 and 3028 piezoelectric accelerometers exhibit a nominal transfer sensitivity of 12 picoCoulombs/g and are ideal for low to medium level vibration measurements. The internal construction of the piezoelectric seismic system ensures that the units have no discernible spurious response to mounting torque, body strains, cable vibration, cable whip, pressure variations and most heat transients.

The units incorporate a shear crystal-mass assembly, which ensures that the sensor is insensitive to environmental inputs such as base bending and thermal transients. The units differ in their connector positions (side or top) and isolation resistance. Each model is supplied with a 10' low-noise coaxial cable. High temperature units will operate in environments up to +500 Deg. F. ***Consult the factory for customized versions of these sensors.***

Specifications

	3024 & 3024-HT	3028 & 3028-HT
Transfer / Electrical		
Charge Sensitivity[1]	12 +/-10 pC/g	
Capacitance	450 +/-50 pF	
Frequency Linearity[2]	+/-5% Max 2 Hz To 5,000 Hz	
Mounted Resonant Frequency	30 KHz, Nom.	
Transverse Sensitivity	5% Max	
Amplitude Linearity	+/-1.0% (BFSL) / 500g	
Insulation Resistance	20,000 M Ohm Min, 50 VDC Test	
Isolation Resistance	0 (Case Grounded)	100M Ohm Min.
Environmental		
Vibration Limit	1,000 g Max (Sine)	
Shock Limit	5,000 g Max	
Temperature Range Models 3024 & 3028 Models 3024-HT & 3028-HT	 -100 To +350 Deg F (-73 To +175 Deg C) -100 To +500 Deg F (-73 To +260 Deg C)	
Humidity	0 To 98% R.H. (Non-Condensing)	
Base Strain Sensitivity	0.01 g/uE Typical	
Electromagnetic Sensitivity	0.01 g (Equiv / 100 Gauss)	
Physical		
Configuration	Shear	
Size	0.625 In. Hex x 0.780 In. H 15.9 mm Hex x 19.8 mm H	0.625 In. Hex x 0.820 In. H 15.9 mm Hex x 21 mm H
Weight	0.8 (23 Gm)	0.9 Oz (26 Gm)
Case Material	18-8 Stainless Steel	
Electrical Interface	Coaxial 10-32 Thread (Side)	Coaxial 10-32 Thread (Top)
Mounting	10-32 Tapped Base	

NOTES:
[1] At +75 Deg F, 10g Peak, 100Hz; Lower Frequency Limit is Determined by Associated Electronics
[2] Referenced to Sensitivity @ 100 Hz.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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