


TECHNICAL  
SPECIFICATION

Gilchrist Technology, Inc.

GTTM3410-100-I Intrinsic Series  
Top Mount Accelerometer 

**DYNAMIC**

Sensitivity,  $\pm 10\%$ , 25°C ..... 100 mV/g  
 Acceleration Range ..... 50 g peak  
 Amplitude Nonlinearity ..... 1%  
 Frequency Response:  
 $\pm 3$  dB ..... 30-900,000 CPM 0,5 -15000 Hz  
 $\pm 10\%$  ..... 1.0 - 10,000 Hz  
 Resonance Frequency ..... 22 kHz  
 Transverse Sensitivity, max ..... 5% of axial  
 Temperature Response ..... -50°C -5%, +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 ..... 700  $\mu$ g  
 Spectral 10 Hz ..... 10  $\mu$ g/vHz  
 100 Hz ..... 5  $\mu$ g/vHz  
 1000 Hz ..... 5  $\mu$ g/vHz  
 Output Impedance, max. .... 100ohm  
 Bias Output Voltage ..... 10-14VDC  
 Grounding ..... case isolated, internally shielded

**ENVIRONMENTAL**

Temperature Range ..... -50 to 121°C  
 Vibration Limit ..... 500 g  
 Shock Limit, min. .... 5,000 g  
 Electromagnetic Sensitivity, equiv. g, max ..... 70  $\mu$ g/gauss  
 Sealing ..... Hermetic  
 Base Strain Sensitivity, max ..... 0.002 g/ $\mu$ strain

**PHYSICAL**

Sensing Element Design ..... PZT ceramic / shear  
 Weight ..... 145 grams  
 Case Material ..... 316L stainless steel

**MOUNTING**

1/4 - 28 captive hex head screw with 0.046" diameter safety wire hole  
 Output Connector ..... 2 pin, MIL -C-5015 style  
 Mating Connector ..... R6 type

**Industries/Applications**

Industries Served	Applications
Steel Mills	Rollers
Petrochemical Plants	All balance of plant equipment
Power Plants	Boilers
Gas Transmission	Compressors
Pulp/Paper	Wet section rolls
Food Processing	Conveyer Systems



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