


TECHNICAL
SPECIFICATION

Gilchrist Technology, Inc.

GTSM3410 Series Side
Mount Accelerometer 

DYNAMIC

Sensitivity, $\pm 10\%$, 25°C 100 mV/g
 Acceleration Range 50 g peak
 Amplitude Nonlinearity 1%
 Frequency Response:
 $\pm 10\%$ 2.0 - 7,000 Hz
 ± 3 dB 0.5 - 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 μ g
 Spectral 10 Hz 10 μ g/vHz
 100 Hz 5 μ g/vHz
 1000 Hz 5 μ 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 μ g/gauss
 Sealing Hermetic
 Base Strain Sensitivity, max 0.002 g/ μ 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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