

Accelerometer with temperature output



Standard



-M1 Option

Dynamic

FSO, ±10%, 24°C.....	±4000 mV
Acceleration range(g)	100
Amplitude nonlinearity.....	1%
Frequency response(+/-5%).....	0~4700Hz
Frequency response(+/-3dB).....	0~10000Hz
Transverse sensitivity, max.....	3% of axial

Electrical

Power requirement:	9 - 15 VDC
Zero voltage.....	5±10%
Current consumption	<15 mA
Residual noise, Broadband Spectral.....	300µV RMS
Output impedance.....	<100Ω
Insulation resistance(@500Vdc).....	>200 MΩ
Turn-on time.....	<100 mS

Environmental

Operation temperature.....	-40 to 120°C
Thermal zero shift(max. ref.24°C).....	±5%FSO
Thermal sensitivity shift(max. ref.24°C).....	±5%
Vibration limit.....	100 g peak
Shock limit.....	5,000 g peak
Sealing	IP68
Dielectric Withstand Voltage.....	2500V (50Hz)

Temperature output

Sensing element.....	PT100
Temperature range.....	-50 to 250°C
Temperature accuracy(A class).....	0.3+0.005* t °C

Physical

Sensing element.....	MEMS(VC)
Weight(W/O cable).....	185 grams max.
Case material.....	304 stainless steel
Mounting.....	M6 Screws
Output connector option.....	HARTING

Accessories

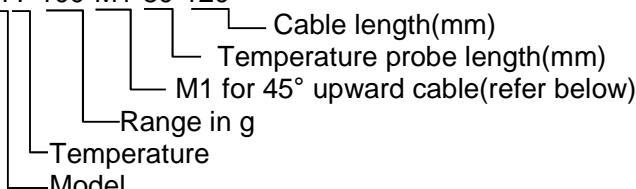
M6X45 mounting screw 2pcs(or customers specified)
Calibration certificate

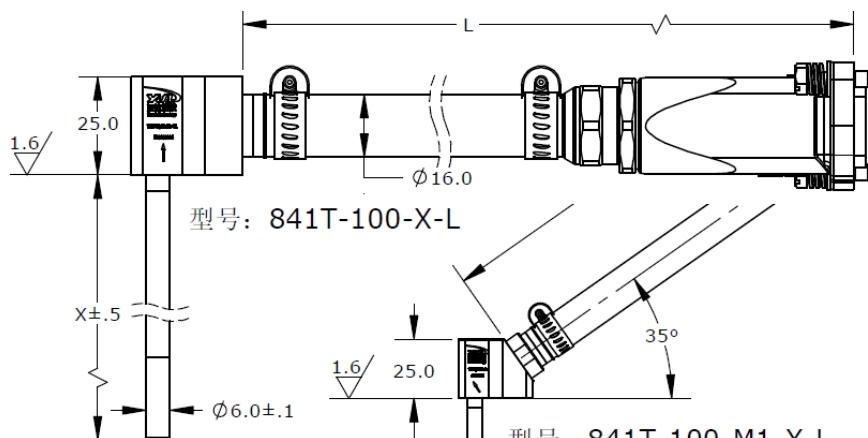
Features

- Low frequency response
- 100g full scale
- Motion, low frequency
- Temperature compensation
- Temperature output
- Train/car motion monitoring
- Special cable exit available

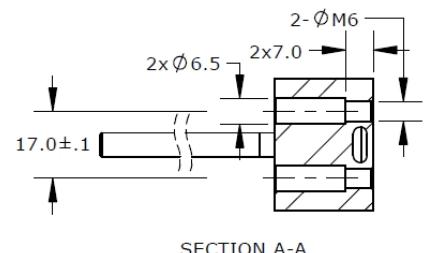
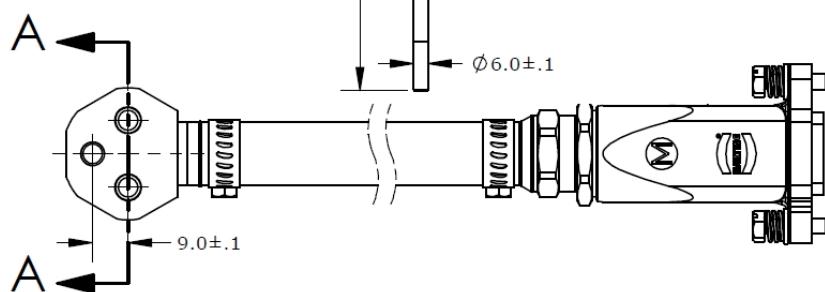
Ordering Information

841T-100-M1-80-120



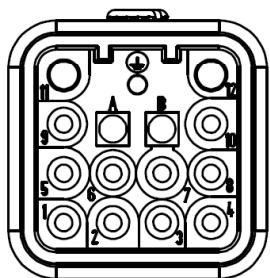
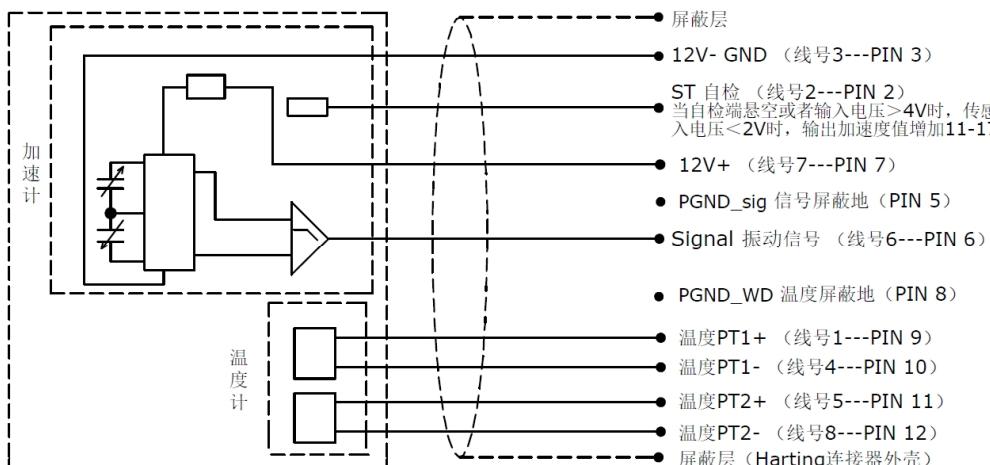


TABULATION 4	
L	TOLERANCE
$L \leq 300$	+25/0
$300 < L \leq 1500$	+50/0
$1500 < L \leq 3000$	+100/0
$3000 < L \leq 9000$	+150/0
$9000 < L$	+300/0



复合传感器外壳

线缆



复合传感器线路示意图

SCALE 1.5 : 1