



Features

- Temperature signal output
- Ex-ATEX
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection

Application

- Oil & gas machine
- Gear box monitoring
- Mining machine
- Bearing monitoring

Comply standard

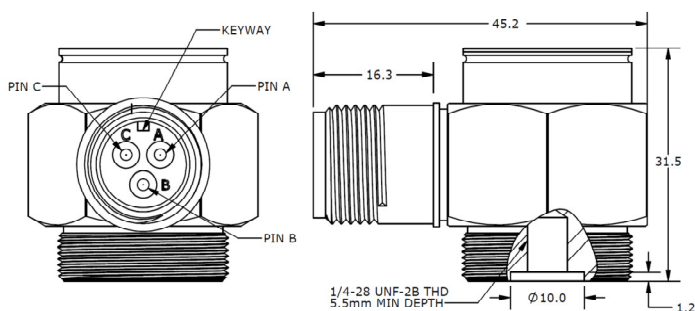
- This product is designed and manufactured according to(产品设计制造依据):

IEC 60079-0:2004 / EN60079-0:2006 GB3836.1-2000

IEC 60079-11:2006 / EN60079-11:2007 GB3836.4-2000

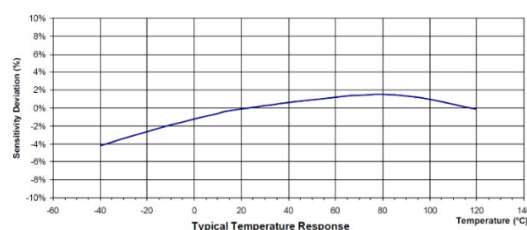
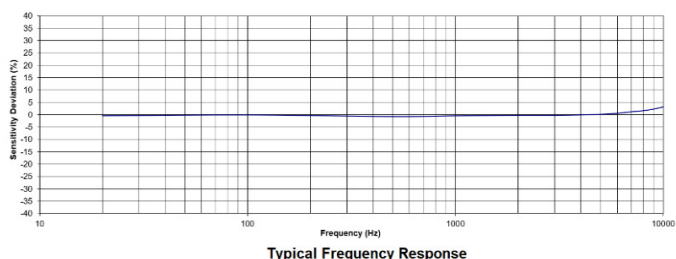
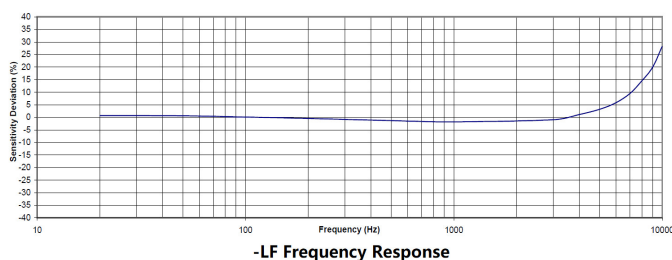
- Transducer intrinsic safety certified to (产品通过防爆认证, 防爆标志是):

Ex ia IIC T4 Ga



Description

Model 340ATM2 is an intrinsic safety IEPE accelerometer permitting simultaneous vibration and temperature measurements. 340ATM2 features an annular shear ceramic crystal which exhibits excellent output stability over time. The accelerometer incorporates an internal circuit with in a two-wire IEPE system which transmits its low impedance voltage output through the same cable that supplies the constant current power. Integrated thermal sensor transfer the temperature output by voltage signal. Signal ground is internal shielded and isolated from the outer case of the unit. Polarity inversion protection for the amplify circuit is inherent in the circuit design. The welded stainless-steel construction provides a hermetic housing. The standard MIL-C-5015 glass insulated connector provides long-term stability over the operating temperature range. Side outlet cable enable the compact installation and discrecional cable direction. In addition to adhesive mounting, 340ATM2 has 1/4-28 threaded holes for stud mounting on the test object. The 340ATM2 provides wide frequency response and shock resistance, which is ideal for industrial vibration monitoring under incidental shock environment. Senter's model 20A-L is a MIL-C-5015 3-pins connector mating cable for the sensor.



Specification

Typical at +24°C (+75°F), 24Vdc, 4 mA and 100Hz, unless otherwise stated.

DASH NO. 扩展号	-5-LF	-10-LF	-20	-80	-500	
g RANGE 量程	±5	±10	±20	±80	±500	g
SENSITIVITY 灵敏度 ±10%	1000	500	250	100	10	mV/g
FREQ RESP 频率响应 ±5%	0.3-4000	0.3-4000	1-7000	0.7-8000	1-8000	Hz
FREQ RESP 频率响应 ±3dB	0.1-6000	0.1-6000	0.3-10000	0.4-15000	0.4-15000	Hz
RESONANT FREQ 谐振频率	20	20	32	32	32	kHz
TRANSV SENS 横向灵敏度	<5	<5	<5	<5	<5	%
TEMPERATURE RESPONSE, 温度响应 -55 to +125°C	±10	±10	±10	±10	±10	%
NON-LINEARITY 非线性	±1	±1	±1	±1	±1	%FSO
RESIDUAL NOISE 噪声	0.0006	0.0008	0.002	0.002	0.004	g RMS
SHOCK LIMIT 冲击极限	2000	2000	5000	5000	5000	g
WARM-UP TIME 稳定时间	<5	<5	<2	<2	<2	second
WEIGHT 重量	111	111	104	104	104	Gram

ITEMS 项目	SPEC 规格	UNIT 单位
BIAS VOLTAGE 偏置电压	10 to 14	Vdc
OUTPUT IMPEDANCE 输出阻抗	<100	Ω
INSUL RESIST 绝缘电阻 (@100Vdc)	>100	MΩ
SUPPLY VOLTAGE 供电电压	18 to 30	Vdc
SUPPLY CURRENT 供电电流	2 to 10	mA
OPERATING TEMPERATURE 工作温度	-55 to +125°C (-67 to 257°F)	°C (°F)

温度传感器规格:

ITEMS 项目	SPEC 规格	UNIT 单位
OUTPUT SENSITIVITY 灵敏度	10	mV/°C
OUTPUT VOLTAGE AT 0°C 零摄氏度输出电压	500	mV
ACCURACY 精度	±1	°C
RANGE 测试范围	-40~125	°C

复合传感器规格:

ITEMS 项目	SPEC 规格	UNIT 单位
OPERATING TEMPERATURE 工作温度	-40 to +125	°C
HUMIDITY 密封性能	HERMETICALLY SEALED 完全密封	
CASE MATERIAL 外壳材料	STAINLESS STEEL 不锈钢	
SENSING ELEMENT 敏感元件	PIEZO CERAMIC 压电陶瓷	
CONNECTOR 连接器	3 Pin MIL-C-5015	
GROUNDING 接地方式	INTERNALLY SHIELDED, CASE ISOLATED 双屏蔽	

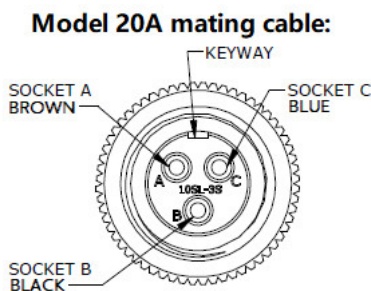
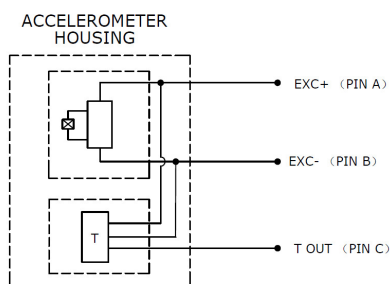
Accessories

Calibration certificate included.

Part Number	Description	Availability
PM0011	Mounting stud ¼-28 to ¼-28 thread	One stud Included
PM0008	Mounting stud ¼-28 to M6 thread	
PM0007	Mounting stud ¼-28 to M10 thread	Optional
MB0001	Magnet mounting adapter	Optional
20A-10	10 meter mating cable with MIL-C-5015 3pins connector	Optional
IN-03	3 channels IEPE signal conditioner	Optional
IN-91	Portable vibration analyzer	Optional
IN-SDG	8 channels data acquisition system	Optional

Measurement configuration

Sensor	Mating cable	Signal conditioner	BNC cable	Data acquisition	Computer
					



Ordering information

340	ATM2	- 80	- LF	- A
Model	Output signal	- Range	- Low frequency option	- Mounting stud
340	A=IEPE output T=Temperature signal output M2=Intrinsic safety certified	- 5=5g 10=10g 20=20g 80=80g 500=500g	- LF= Low frequency response	- A= ¼-28 to ¼-28 thread B= ¼-28 to M6 metric thread C*=Special



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