4-20 mA TRANSMITTERS



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IMI Sensors offers a wide range of loop-powered vibration transmitters with a current output. These transmitters are ideal for process monitoring applications where a continuous 24/7 signal from critical rotating assets is needed for recording and trending by a programmable logic controller (PLC), distributed control system (DSC) or supervisory control and data acquisition (SCADA) system. The current output can interface directly with these existing systems so that data can be easily monitored and analyzed.

Most plants already have PLC, DCS or SCADA systems in place monitoring pressure, flow and temperature. IMI's loop-powered 4-20 mA vibration transmitters are plug-and-play, using a current loop for power instead of needing a separate, dedicated power source. The 12 to 30 VDC power source on the loop will provide power to the transmitter while the process controller will convert the transmitter's current output to DC voltage for interpretation. The ability to easily incorporate the transmitters into existing systems that can create current loops provides the ability to monitor critical equipment without the expense of additional costly data acquisition systems

MEASUREMENT RANGE

Transmitters are available in acceleration, velocity or displacement measurement ranges. The appropriate measurement range is determined by the frequency. Below are some broad guidelines as to when to use which measurement range.

MEASUREMENT RANGE		
Frequency	Appropriate Measurement Range	
0 to 100 Hz	Displacement	
100 to 1000 Hz	Velocity	
Greater than 1000 Hz	Acceleration	

OPTIONAL VERSIONS

All of the models listed in this brochure (except Model 653A01) are available with several optional features. To select any of the below-listed features, add the appropriate prefix to the core model number. All prefixes can be combined except EXHT, RVTO and RVVOTO. When selecting a prefixed model, refer to model-specific outline drawings as some prefixed models' dimensions differ slightly from their unprefixed model equivalents.

OPTIONAL VERSIONS		
Optional Feature	Prefix	Description
Hazardous Area Approval	EX	Transmitter is certified for use in potentially explosive environments via ATEX, CSA and IECEx. Terminal block transmitters with hazardous area approval include an approved conduit elbow.
High Temperature Range	HT	Transmitter's operating temperature range is increased from +185 °F (+85 °C) to +257 °F (+125 °C).
Metric Mount	M	Accelerometer includes an M6x1 mounting stud or bolt instead of a 1/4-28 mounting stud or bolt.
Raw Vibration Output (Acceleration)	RV	Transmitter provides a 100 mV/g analog acceleration output in addition to the current vibration output. To transmit the second signal, transmitter has one additional pin (connector version), cable conductor (integral cable version) or terminal (terminal block version).
Raw Vibration Output (Velocity)	RVVO	Transmitter provides a 100 mV/ips analog velocity output in addition to the current vibration output. To transmit the second signal, transmitter has one additional pin (connector version), cable conductor (integral cable version) or terminal (terminal block version).
Temperature Output	то	Transmitter includes a built-in temperature sensor and provides a 4-20 mA temperature output in addition to the current vibration output. To transmit the second signal, transmitter has two additional pins (connector version), cable conductors (integral cable version) or terminals (terminal block version). Connector-version transmitters with temperature output have a bayonet-style connector instead of a threaded connector.

TRANSMITTER WITH DISPLACEMENT OUTPUT

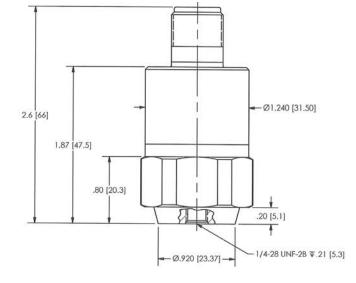


TRANSMITTER WITH MIL CONNECTOR MODELS 653A01

Superior signal resolution on slow speed machinery Measures absolute peak to peak displacement Accurate down to 1.5 Hz

MODEL 653A01

Model Number	653A01	
Performance		
Measurement Range	2 to 40 mil pk – pk 0.05 to 1.02 mm pk - pk	
Output	4-20 mA	
Frequency Range (±3dB)	1.5 to 300 Hz	
Non-Linearity	±2%	
Environmental		
Overload Limit	2500 g pk	
Temperature Range	-40 to +185 °F -40 to +85 °C	
Enclosure Rating	IP68	
Electrical		
Excitation Voltage	12 to 30 VDC	
Load Resistance	50 (Vs-12) ohms	
Settling Time	60 sec	
Electrical Isolation (Case)	>10 ⁸ ohm	
Physical		
Sensing Element	Ceramic	
Sensing Geometry	Flexural	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Mounting Thread	1/4-28 Female	
Mounting Torque	3 to 5 ft-lb 4 to 7 Nm	
Electrical Connector	2-pin MIL	
Weight	5.36 oz 152 g	
Accessories		
Model 081A41: Mounting stud, 1/4-28	3 x 0.56"	



4-20 mA VELOCITY TRANSMITTER



TRANSMITTER WITH M12 CONNECTOR SERIES 655A9X

Highest frequency response among comparable models (3.5 to 2,000 Hz)

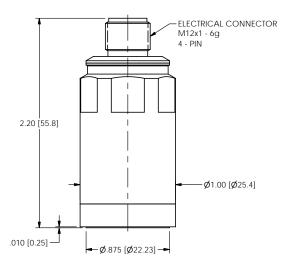
Operating temperature up to 221 °F (105 °C)

4-pin M12 connector

655 SERIES

Model Number	655A90	655A91	655A92
Performance			
Measurement Range	0 to 0.5 in/sec pk 0 to 12.7 mm/s pk	0 to 1 in/sec pk 0 to 25.4 mm/s pk	0 to 2 in/sec pk 0 to 50.8 mm/s pk
Output		4-20 mA	
Frequency Range(±3dB)		3.5 to 2000 Hz	
Repeatability		±2%	
Environmental			
Shock Limit		2500 g pk	
Temperature Range		-40 to 221 °F -40 to 105 °C	
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-10) ohms		
Settling Time	30 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry	Shear		
Housing Material		Stainless Steel	
Sealing		Welded Hermetic	
Mounting Thread		1/4-28 UNF	
Mounting Torque	2.0 ft-lb 2.71 Nm		
Electrical Connector	4-Pin, M12		
Weight	4.2 oz 120 g		
Accessories			

Model M081A61: Mounting stud, 1/4-28 to M6x1 x 8.6 mm long, BeCu w/shoulder



4-20 mA VELOCITY TRANSMITTER



TRANSMITTER WITH M12 CONNECTOR SERIES 656A9X

Compact housing for installation in tight spaces

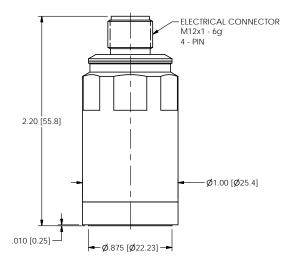
Piezoelectric accelerometer for improved accuracy and frequency response

Ideal for monitoring slower rotating machinery including fans and paper machine rolls

656 SERIES

Model Number	656A90	656A91	656A92
Performance			
Measurement Range	0 to 0.5 in/sec rms 0 to 12.7 mm/s rms	0 to 1 in/sec rms 0 to 25.4 mm/s rms	0 to 2 in/sec rms 0 to 50.8 mm/s rms
Output		4-20 mA	
Frequency Range (±3dB)		3.5 to 2000 Hz	
Repeatability		±2%	
Environmental			
Shock Limit		2500 g pk	
Temperature Range		-40 to 221 °F -40 to 105 °C	
Enclosure Rating		IP68	
Electrical	·		
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-10) ohms		
Settling Time	30 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry	Shear		
Housing Material	Stainless Steel		
Sealing		Welded Hermetic	
Mounting Thread		1/4-28 UNF	
Mounting Torque	2.0 ft-lb 2.71 Nm		
Electrical Connector	4-Pin, M12		
Weight	4.2 oz 120 g		
Accessories			
Model 081A40: Mountin with hex socket and bras		38" long stainless si	teel screw

Model M081A61: Mounting stud, 1/4-28 to M6x1 x 8.6 mm long, BeCu w/shoulder



TRANSMITTER WITH PEAK VELOCITY OUTPUT



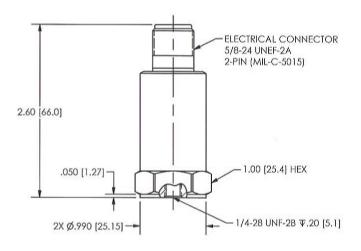
TRANSMITTER WITH MIL CONNECTOR

MODELS 640B00, 640B01, 640B02

Small footprint for installation in tight spaces

Ideal for monitoring slower rotating machinery including fans and paper machine rolls

Model Number	640B00	640B01	640B02
Performance			
Measurement Range	0 to 0.5 ips pk 0 to 12.7 mm/s pk	0 to 1.0 ips pk 0 to 25.4 mm/s pk	0 to 2.0 ips pk 0 to 50.8 mm/s pk
Output		4-20 mA	
Frequency Range (±3dB)		3 to 1000 Hz	
Broadband Resolution		0.005 ips pk 0.13 mm/s pk	
Non-Linearity		±1%	
Environmental			
Temperature Range		-40 to +185 °F -40 to +85 °C	
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry		Shear	
Housing Material		Stainless Steel	
Sealing		Welded Hermetic	
Mounting Thread		1/4-28 Female	
Mounting Torque	3 to 5 ft-lb 4 to 7 Nm		
Electrical Connector	2-pin MIL		
Weight	4.71 oz 131 g		
Accessories			
Model 081A40: Mounting	stud 1/4-28 x 0 /3	2"	





TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE MODELS 640B10, 640B11, 640B12

 Configurable cable length and terminating connector

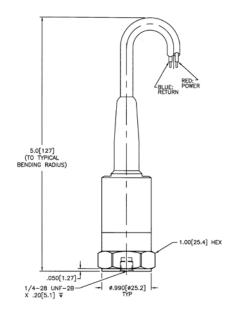


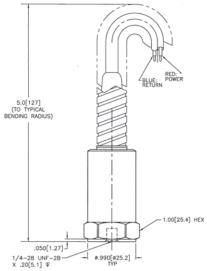
TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODELS 640B60, 640B61, 640B62

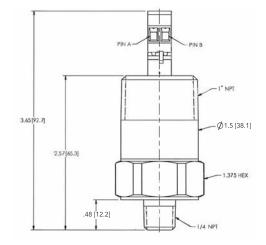
• Configurable cable length, armor length and terminating connector



TRANSMITTER WITH TERMINAL BLOCK CONNECTOR MODELS 640B70, 640B71, 640B72







TRANSMITTER WITH RMS VELOCITY OUTPUT

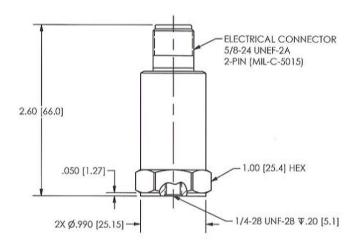


TRANSMITTER WITH MIL CONNECTOR MODELS 641B00, 641B01, 641B02

Small footprint for installation in tight spaces

Ideal for monitoring slower rotating machinery including fans and paper machine rolls

SPECIFICATIONS			
Model Number	641B00	641B01	641B02
Performance			
Measurement Range	0 to 0.5 ips RMS 0 to 12.7 mm/s RMS	0 to 1.0 ips RMS 0 to 25.4 mm/s RMS	0 to 2.0 ips RMS 0 to 50.8 mm/s RMS
Output		4-20 mA	
Frequency Range (±3dB)		10 to 1000 Hz	
Broadband Resolution		0.005 ips RMS 0.13 mm/s RMS	
Non-Linearity		±1%	
Environmental			
Temperature Range	-40 to +185 °F -40 to +85 ℃		
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry		Shear	
Housing Material		Stainless Steel	
Sealing		Welded Hermetic	
Mounting Thread	1/4-28 Female		
Mounting Torque	3 to 5 ft-lb 4 to 7 Nm		
Electrical Connector	2-pin MIL		
Weight	4.7 oz 131 g		
Accessories			
Model 081A40: Mounting	stud, 1/4-28 x 0.43	3"	





TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE MODELS 641B10, 641B11, 641B12

 Configurable cable length and terminating connector

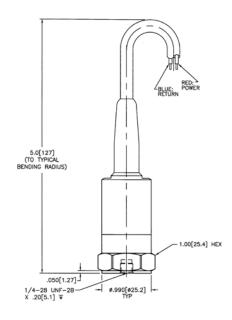


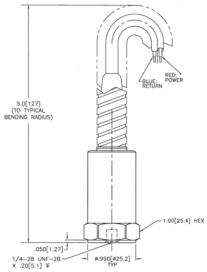
TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODELS 641B60, 641B61, 641B62

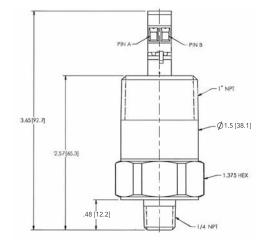
• Configurable cable length, armor length and terminating connector



TRANSMITTER WITH TERMINAL BLOCK CONNECTOR MODELS 641B70, 641B71, 641B72







TRANSMITTER WITH PEAK VELOCITY OUTPUT



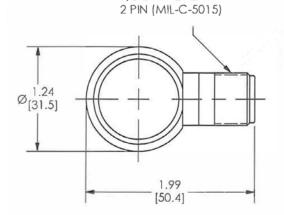
TRANSMITTER WITH MIL CONNECTOR

MODELS 642A00, 642A01, 642A02

- Swivel mounting mechanism eliminates spinning sensors during installation
- Low profile design eliminates concerns about cable bend radius

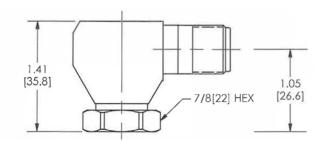
642 SERIES

SPECIFICATIONS			
Model Number	642A00	642A01	642A02
Performance			
Measurement Range	0 to 0.5 ips pk 0 to 12.7 mm/s pk	0 to 1.0 ips pk 0 to 25.4 mm/s pk	0 to 2.0 ips pk 0 to 50.8 mm/s pk
Output		4-20 mA	
Frequency Range (±3dB)		3 to 1000 Hz	
Broadband Resolution		0.005 ips pk 0.13 mm/s pk	
Non-Linearity		±1%	
Environmental			
Temperature Range		-40 to +185 °F -40 to +85 °C	
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)		>10 ⁸ ohm	
Physical			
Sensing Element	Ceramic		
Sensing Geometry	Shear		
Housing Material	Stainless Steel		
Sealing		Welded Hermetic	
Mounting Thread		1/4-28 Male	
Mounting Torque (Stud)	3 to 4 ft-lb 4.1 to 5.4 Nm		
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm		
Electrical Connector	2-pin MIL		
Weight	3.8 oz 108 g		
Accessories			
Model 080A162: Mounting	stud, 3/4-16 to 1/	4-28	



ELECTRICAL CONNECTOR

5/8-24 UNEF-2A

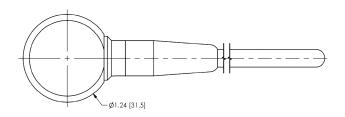


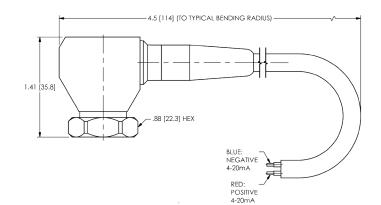


TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE

MODELS 642A10, 642A11, 642A12

Configurable cable length and terminating connector



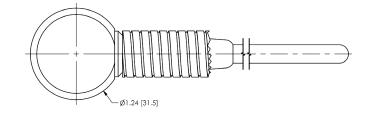


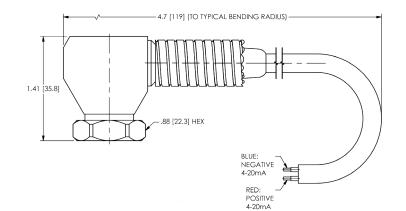


TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODELS 642A60, 642A61, 642A62

 Configurable cable length, armor length and terminating connector





TRANSMITTER WITH RMS VELOCITY OUTPUT

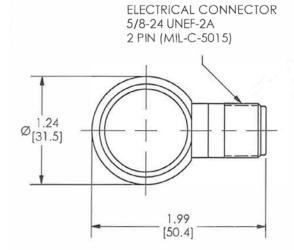


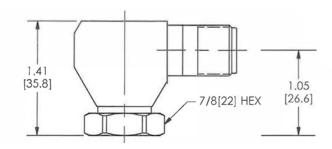
TRANSMITTER WITH MIL CONNECTOR

MODELS 643A00, 643A01, 643A02

- Swivel mounting mechanism eliminates spinning sensors during installation
- Low profile design eliminates concerns about cable bend radius

643A00	643A01	643A02
0 to 0.5 ips RMS 0 to 12.7 mm/s RMS	0 to 1.0 ips RMS 0 to 25.4 mm/s RMS	0 to 2.0 ips RMS 0 to 50.8 mm/s RMS
	4-20 mA	
	10 to 1000 Hz	
	0.005 ips RMS 0.13 mm/s RMS	
	±1%	
·		
	-40 to +185 °F -40 to +85 °C	
	IP68	
12 to 30 VDC		
50 (Vs-12) ohms		
<15 sec		
>10 ⁸ ohm		
Ceramic		
Shear		
	Stainless Steel	
	Welded Hermetic	
	1/4-28 Male	
3 to 4 ft-lb 4.1 to 5.4 Nm		
2 to 3 ft-lb 2.7 to 4.1 Nm		
2-pin MIL		
3.8 oz 108 g		
	0 to 12.7 mm/s RMS	0 to 12.7 mm/s RMS 0 to 25.4 mm/s RMS 4-20 mA 10 to 1000 Hz 0.005 ips RMS 0.13 mm/s RMS ±1% -40 to +185 °C 12 to 30 VDC 12 to 30 VDC 50 (Vs-12) ohms <15 sec 510 [®] ohm Ceramic Shear Stainless Steel Welded Hermetic 1/4-28 Male 3 to 4 ft-lb 4.1 to 5.4 Nm 2 to 3 ft-lb 2.7 to 4.1 Nm 2-pin MIL 3.8 oz



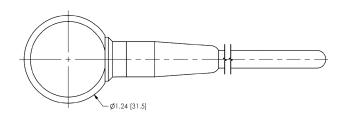


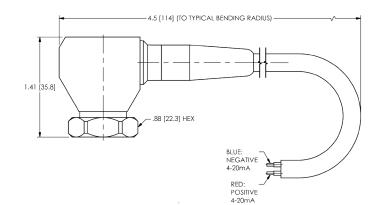


TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE

MODELS 643A10, 643A11, 643A12

Configurable cable length and terminating connector



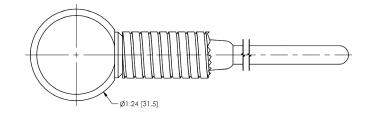


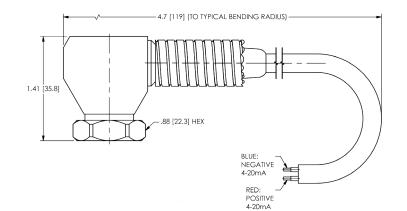


TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODELS 643A60, 643A61, 643A62

 Configurable cable length, armor length and terminating connector





TRANSMITTER WITH 0-5G ACCELERATION OUTPUT

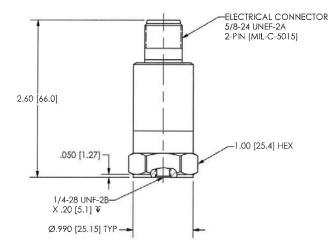


TRANSMITTER WITH MIL CONNECTOR MODELS 645B00, 645B01, 645B02

Small footprint for installation in tight spaces

Ideal for monitoring faster rotating machinery including motors, pumps and gearboxes

Model Number	645B00	645B01	645B02
Performance			
Measurement Range	0 to 5 g RMS 0 to 5 g RMS 0 to 5 g RMS 0 to 49 m/s ² 0 to 49 m/s ² 0 to 49 m/s ² RMS RMS RMS		
Output		4-20 mA	
Frequency Range (±3dB)	3 to 1000 Hz	3 to 5000 Hz	3 to 10000 Hz
Broadband Resolution		0.025 g RMS 0.24 m/s ² RMS	<u> </u>
Non-Linearity		±1%	
Environmental			
Temperature Range	-40 to +185 °F -40 to +85 °C		
Enclosure Rating	IP68		
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry		Shear	
Housing Material		Stainless Steel	
Sealing	Welded Hermetic		
Mounting Thread	1/4-28 Female		
Mounting Torque	3 to 5 ft-lb 4 to 7 Nm		
Electrical Connector	2-pin MIL		
Weight	4.7 oz 131 g		
Accessories			





TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE MODELS 645B10, 645B11, 645B12

 Configurable cable length and terminating connector

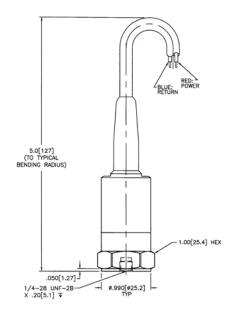


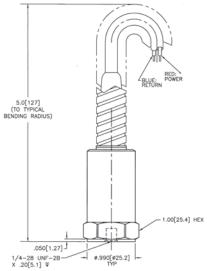
TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODELS 645B60, 645B61, 645B62

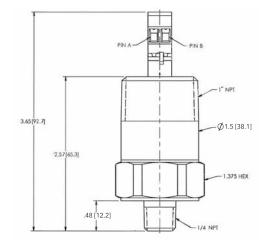
• Configurable cable length, armor length and terminating connector



TRANSMITTER WITH TERMINAL BLOCK CONNECTOR MODELS 645B70, 645B71, 645B72







TRANSMITTER WITH 0-10G ACCELERATION OUTPUT

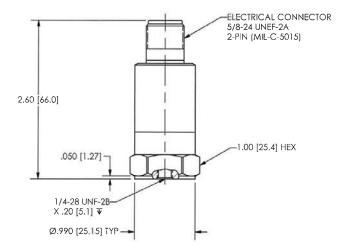


TRANSMITTER WITH MIL CONNECTOR MODELS 646B00, 646B01, 646B02

Small footprint for installation in tight spaces

Ideal for monitoring faster rotating machinery including motors, pumps and gearboxes

Model Number	646B00	646B01	646B02
Performance			
Measurement Range	0 to 10 g RMS 0 to 98.1 m/s ² RMS	0 to 10 g RMS 0 to 98.1 m/s ² RMS	0 to 10 g RMS 0 to 98.1 m/s ² RMS
Output		4-20 mA	
Frequency Range (±3dB)	3 to 1000 Hz	3 to 5000 Hz	3 to 10000 Hz
Broadband Resolution		0.05 g RMS 0.49 m/s² RMS	
Non-Linearity		±1%	
Environmental			
Temperature Range	-40 to +185 °F -40 to +85 ℃		
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)		>10 ⁸ ohm	
Physical			
Sensing Element	Ceramic		
Sensing Geometry		Shear	
Housing Material		Stainless Steel	
Sealing		Welded Hermetic	
Mounting Thread	1/4-28 Female		
Mounting Torque	3 to 5 ft-lb 4 to 7 Nm		
Electrical Connector	2-pin MIL		
Weight	4.7 oz 131 g		
Accessories			
Model 081A40: Mounting	stud, 1/4-28 x 0.438	3"	





TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE MODELS 646B10, 646B11, 646B12

 Configurable cable length and terminating connector

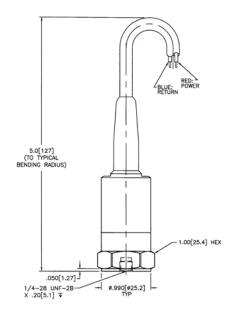


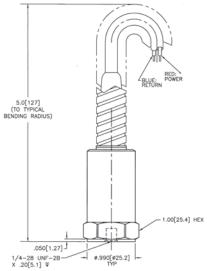
TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODELS 646860, 646861, 646862

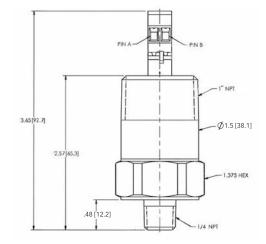
• Configurable cable length, armor length and terminating connector



TRANSMITTER WITH TERMINAL BLOCK CONNECTOR MODELS 646B70, 646B71, 646B72







TRANSMITTER WITH 0-5G ACCELERATION OUTPUT



TRANSMITTER WITH MIL CONNECTOR

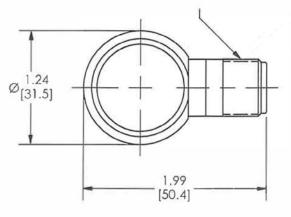
MODELS 647A00, 647A01, 647A02

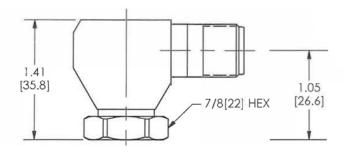
Swivel mounting mechanism eliminates spinning sensors during installation

Low profile design eliminates concerns about cable bend radius

Model Number	647A00	647A01	647A02
Performance			
Measurement Range	0 to 5 g RMS 0 to 49 m/s ² RMS	0 to 5 g RMS 0 to 49 m/s ² RMS	0 to 5 g RMS 0 to 49 m/s ² RMS
Output		4-20 mA	
Frequency Range (±3dB)	3 to 1000 Hz	3 to 5000 Hz	3 to 10000 Hz
Broadband Resolution		0.025 g RMS 0.24 m/s² RMS	
Non-Linearity		±1%	
Environmental			
Temperature Range		-40 to +185 °F -40 to +85 °C	
Enclosure Rating		IP68	
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)	>10 ⁸ ohm		
Physical			
Sensing Element	Ceramic		
Sensing Geometry	Shear		
Housing Material		Stainless Steel	
Sealing		Welded Hermetic	
Mounting Thread		1/4-28 Male	
Mounting Torque	3 to 4 ft-lb 4.1 to 5.4 Nm		
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm		
Electrical Connector	2-pin MIL		
Weight	3.8 oz 108 g		
Accessories			





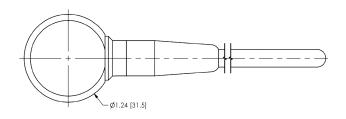


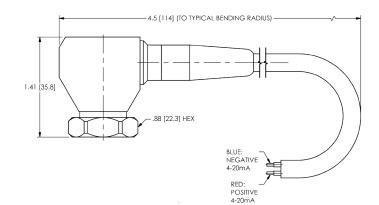


TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE

MODELS 647A10, 647A11, 647A12

Configurable cable length and terminating connector



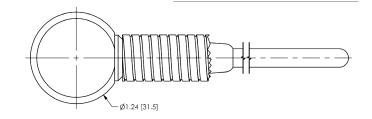


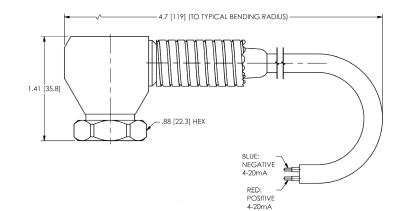


TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODELS 647A60, 647A61, 647A62

 Configurable cable length, armor length and terminating connector





TRANSMITTER WITH 0-10 ACCELERATION OUTPUT



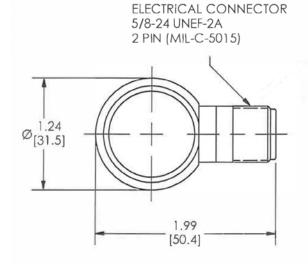
TRANSMITTER WITH MIL CONNECTOR

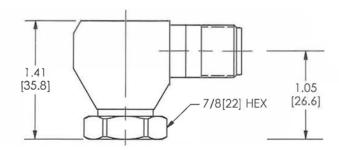
MODELS 648A00, 648A01, 648A02

Swivel mounting mechanism eliminates spinning sensors during installation

Low profile design eliminates concerns about cable bend radius

Model Number	648A00	648A01	648A02
Performance			
Measurement Range	0 to 10 g RMS 0 to 98.1 m/s ² RMS	0 to 10 g RMS 0 to 98.1 m/s ² RMS	0 to 10 g RMS 0 to 98.1 m/s ² RMS
Output	4-20 mA		
Frequency Range (±3dB)	3 to 1000 Hz	3 to 5000 Hz	3 to 10000 Hz
Broadband Resolution	0.05 g RMS 0.49 m/s² RMS		
Non-Linearity	±1%		
Environmental			
Temperature Range	-40 to +185 °F -40 to +85 °C		
Enclosure Rating	IP68		
Electrical			
Excitation Voltage	12 to 30 VDC		
Load Resistance	50 (Vs-12) ohms		
Settling Time	<15 sec		
Electrical Isolation (Case)		>10 ⁸ ohm	
Physical			
Sensing Element	Ceramic		
Sensing Geometry	Shear		
Housing Material	Stainless Steel		
Sealing	Welded Hermetic		
Mounting Thread	1/4-28 Male		
Mounting Torque	3 to 4 ft-lb 4.1 to 5.4 Nm		
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm		
Electrical Connector	2-pin MIL		
Weight		3.8 oz 108 g	



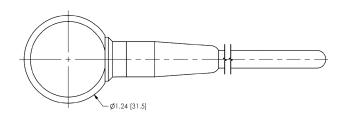


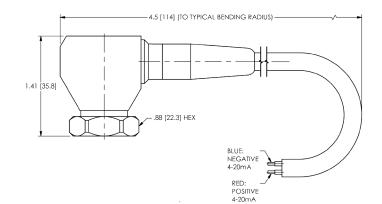


TRANSMITTER WITH INTEGRAL POLYURETHANE CABLE

MODELS 648A10, 648A11, 648A12

Configurable cable length and terminating connector



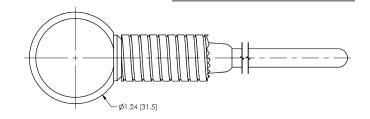


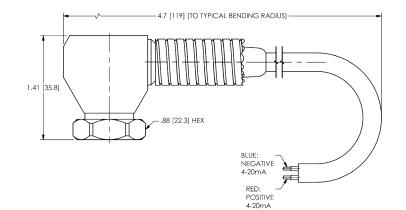


TRANSMITTER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODELS 648A60, 648A61, 648A62

 Configurable cable length, armor length and terminating connector







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