

Bearing-Vibration Monitor

Emerson's Dual-Channel Bearing-Vibration Monitor is designed for small and low channel applications such as small steam, gas, and hydro turbines, and such as compressors, pumps, and fans to measure absolute bearing vibration signals. Measurement settings, alarms, and provided outputs are field configurable via software.

Measurement Performance		
Sensor Input Type		ICP Piezo-Electric Sensors
Measurement Range		Freely selectable by means of configuration software according to the measuring range of the applied sensors
Linearity Error		0.2% at 25°C
Linearity Error, Calculated with Sensor		<2.2% at 25°C
Output Stability as Function of Temperature		<0.08% / 10K
Long-Term Drift		max. 1% of measuring range
Frequency Range:	High-Pass Filter	5 to 5000 Hz
	Low-Pass Filter	50 to 5000 Hz
Connection Type:		“Harting” socket
Environmental		
Shock Limit		20 g pk
Temperature Range		-20 to 65°C (-4 to 149°F)
Sealing		IP65
Agency Ratings		CE



Shown here is one product option. Other options have slightly different sockets and wiring.

CE

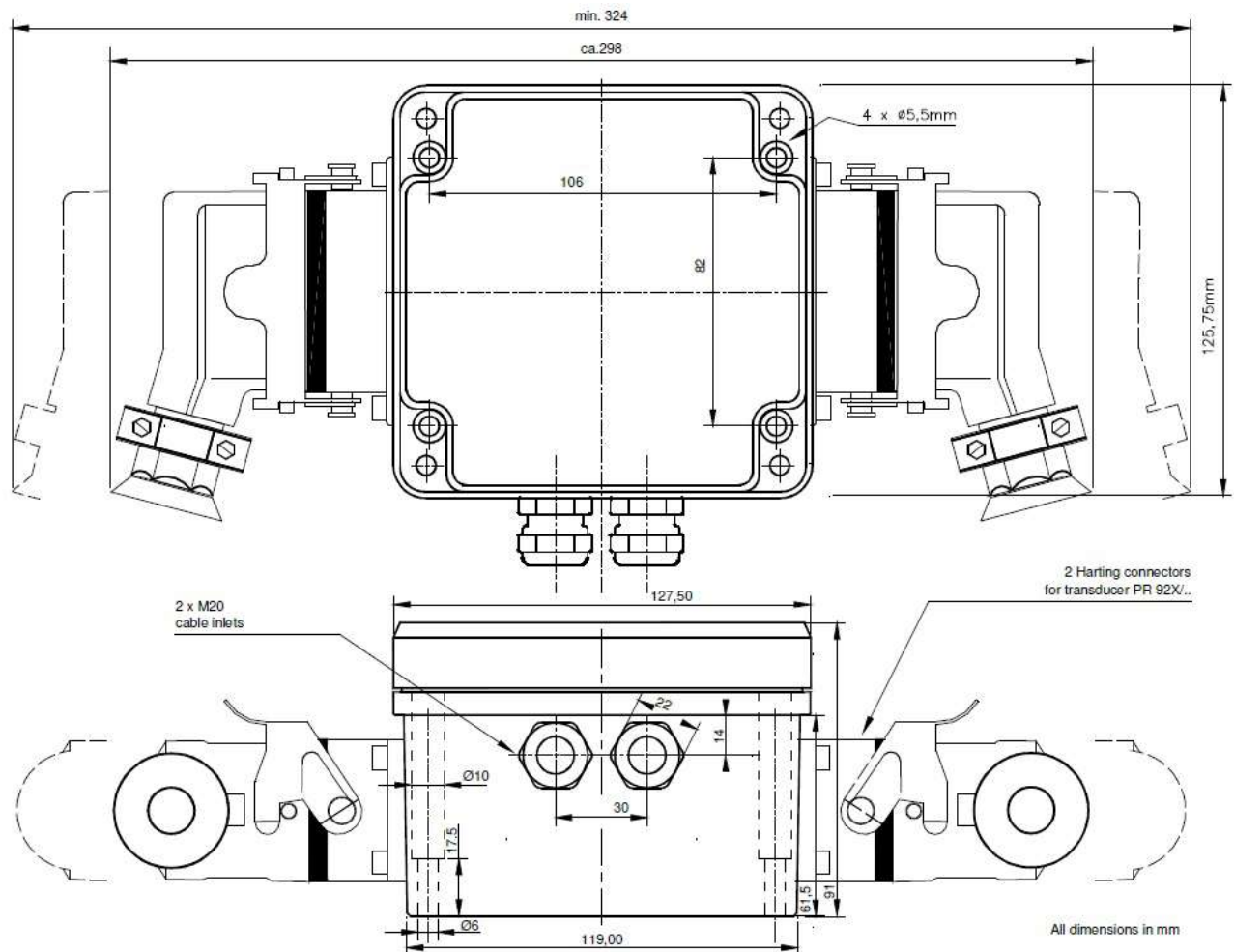
Mechanical	
Case Material / Weight	Aluminum, non-corroding / ~1300 g (45.8 oz.)
Mounting	Wall mount
Electrical	
Supply Voltage	Nominal +24 VDC
Permissible Voltage Range	+18 to +31.2 VDC
Power Consumption	max. 6 W
Buffered Out: (2x)	Connection Available at Pins (Cage Terminal)
	Voltage Range ± 4.0 VDC
	Accuracy $\pm 2.5\%$
Current Out: (2x)	Current Range 0/4 to 20 mA (20 to 4/0 mA)
	Galvanically separated
	Open circuit and short-circuit proof
	Maximum Burden 500 Ohm
Relay Out: (5x make contact)	Voltage U_{MAX} : 48 VDC
	Current I_{MAX} : 1 A
	Contact Rating P_{MAX} : 50 W
Compliance and Certifications	
CE	EMC – EN61326-1 2014/30/EU 2014/34/EU 2011/65/EU

Ordering Information

Model Number	Product Description
A3125/022-010	AMS 3125 Bearing-Vibration Monitor Vibration Acceleration (100mV / g 40g)
A3125/022-020	AMS 3125 Bearing-Vibration Monitor Vibration Velocity (100mV / in / s)

Dimensions

A 3125/022-0x0



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