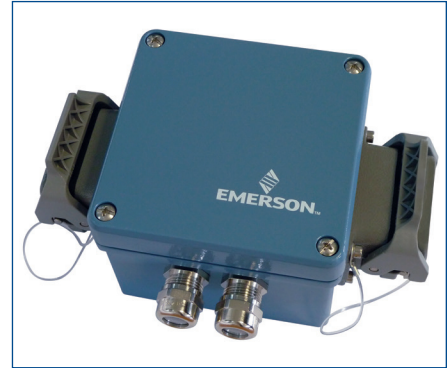


Bearing-Vibration Monitor

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.



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



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	

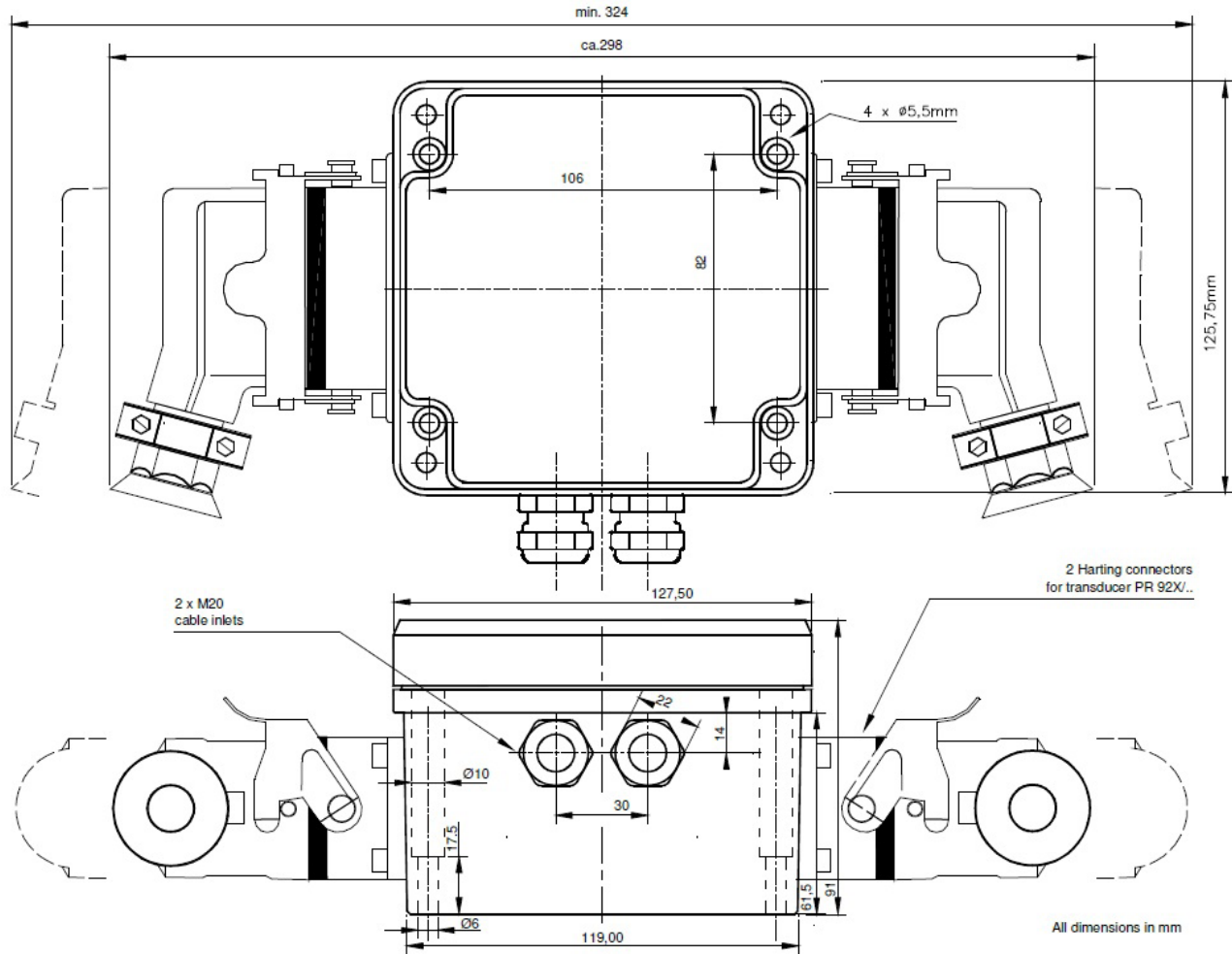
Mechanical	
Case Material / Weight	Aluminum, non-corroding / ~1300 g (45.8 oz.)
Mounting	Wall mount
Electrical	
Supply Voltage	Nominal +24 VDC
Permissible Voltage Range	+18 to +31.2 VDC
Power Consumption	max. 6 W
Buffered Out: (2x)	Connection: Available at Pins (Cage Terminal)
	Voltage Range: ±4.0 VDC
	Accuracy: ± 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



©2020, Emerson. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. The AMS logo is a mark of one of the Emerson family of companies. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while diligent efforts were made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Emerson
Reliability Solutions
 835 Innovation Drive
 Knoxville, TN 37932 USA
 ☎ +1 865 675 2400

🌐 www.emerson.com/ams