

Speed and Key Monitor

Emerson's Speed and Key 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 speed and generate key signals. Measurement settings, alarms, and provided outputs are field configurable via software.

Measurement Performance	
Sensor Input Type	Eddy- Current Sensors
Measurement Range	Freely selectable by means of configuration software, max. 65535 rpm limited by input frequency
Linearity Error	0.25% at 25°C
Linearity Error, Calculated with Sensor	Depending on sensor, max. -6% at 25°C
Output Stability as Function of Temperature	<0.08% / 10K
Long-Term Drift	max. 1% of measuring range
Frequency Range	0 to 20 kHz Automatic setting of trigger level
Connection Type: Internal Converter	"LEMO" 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



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

CE

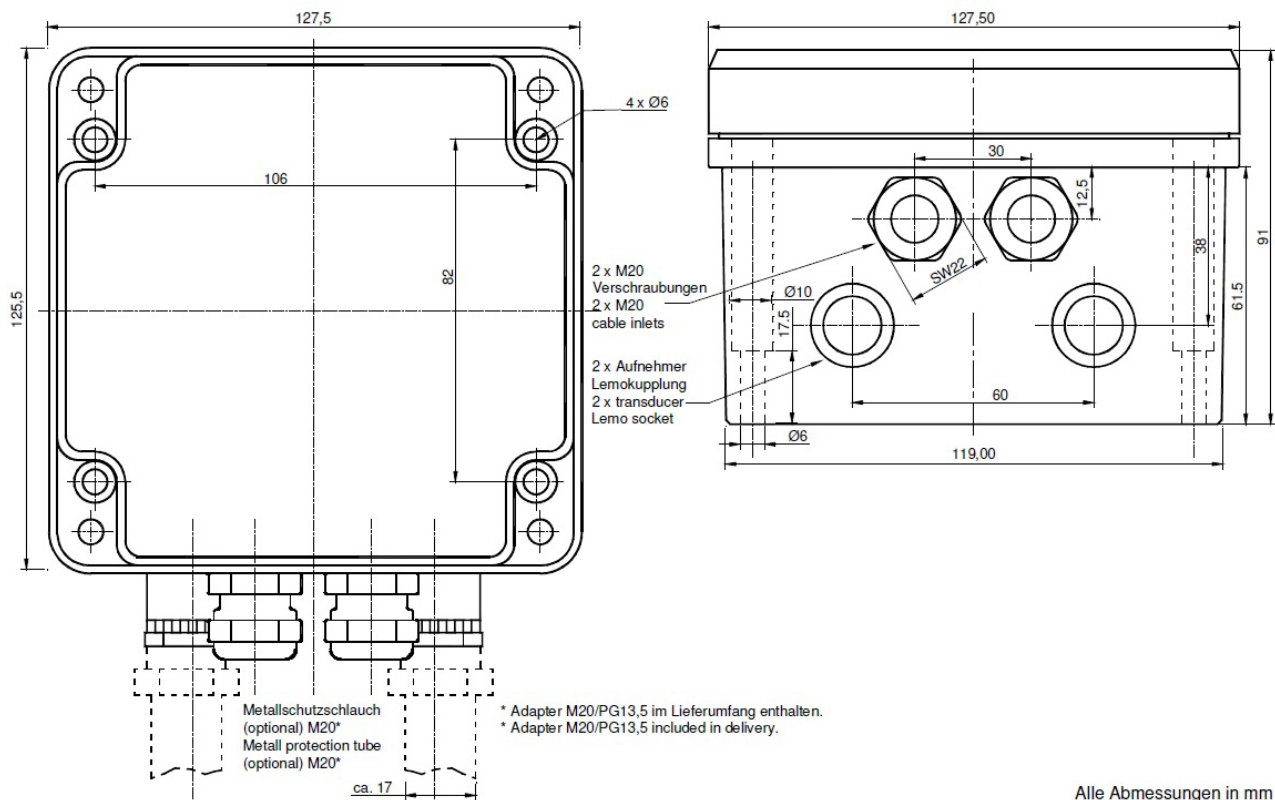
Electrical		
Supply Voltage		Nominal +24 VDC
	Permissible Voltage Range	+18 to +31.2 VDC
Power Consumption		max. 6 W
Buffered Out: (2x)	Connection	Available at Pins (Cage Terminal)
	Voltage Range	2.0 to 10.0 VDC
	Accuracy	± 2.5%
Current Out: (2x)	Current Range	0/4 to 20 mA (20 to 4/0 mA)
		Galvanically 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
A3311/022-000	AMS 3311 Speed & Key Monitor Eddy-Current Converters: INTERNAL

Dimensions

A 3311/022-000



Alle Abmessungen in mm
All dimensions in mm

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