# **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, max6% 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



### Speed and Key Monitor

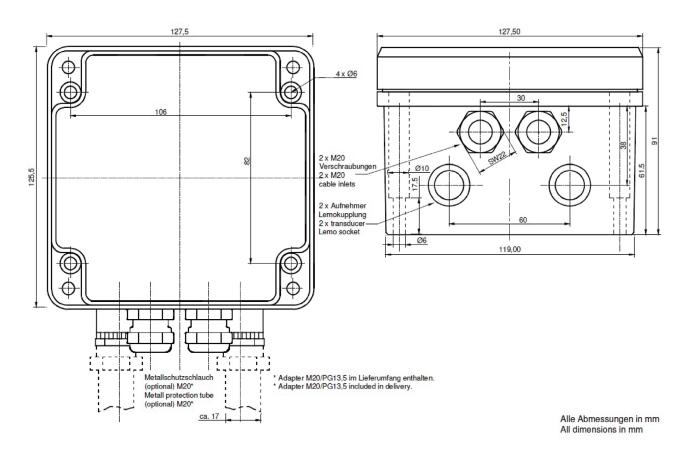
Electrical		
Supply Voltage		Nominal +24 VDC
Per	missible Voltage Range	+18 to +31.2 VDC
Power Consumption		max. 6 W
Buffered Out:	Connection	Available at Pins (Cage Terminal)
(2x)	Voltage Range	2.0 to 10.0 VDC
	Accuracy	± 2.5%
Current Out:	Current Range	0/4 to 20 mA (20 to 4/0 mA)
(2x)		Galvanically separated
		Open circuit and short-circuit proof
	Maximum Burden	500 Ohm
Relay Out:	Voltage	U <sub>MAX</sub> : 48 VDC
(5x make contact)	Current	I <sub>MAX</sub> : 1 A
	Contact Rating	P <sub>MAX</sub> : 50 W
Compliance and Certifications		
CE		EMC – EN61326-1 2014/30/EU 2014/34/EU 2011/65/EU

# **Ordering Information**

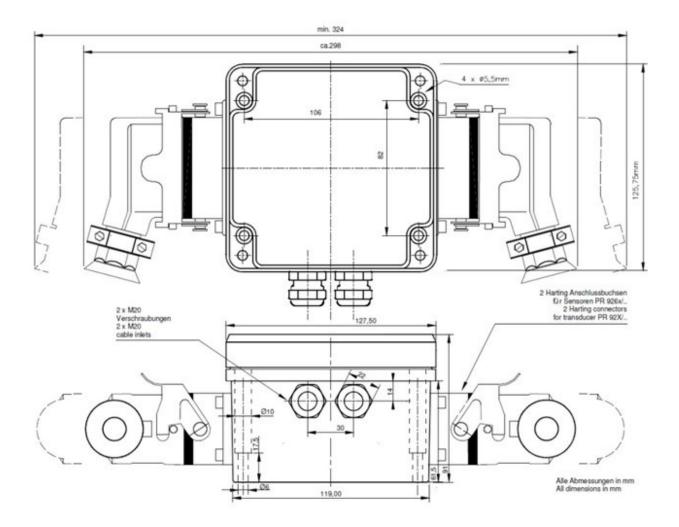
Model Number	Product Description
A3311/022-000	AMS 3311 Speed & Key Monitor Eddy-Current Converters: INTERNAL
A3311/022-020	AMS 3311 Speed & Key Monitor Eddy-Current Converters: EXTERNAL (to be ordered separately)

## Dimensions

A 3311/022-000



#### A 3311/022-020



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