

## **RMGZ 900 mini Series Force Measuring Roller**

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**10 times overload protection**

**No recalibration required**

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**20:1 force measuring range**

**Accuracy class 0.5%**

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**Nominal forces from 4 - 45 lbs.**

**Sizes available for every application**

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**Stainless steel sensor, anodized roller**

**Corrosion resistant, ultra durable**

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● **RMGZ 900 mini Series**

The RMGZ 900 mini Series sensors are designed as self contained cantilever mount sensors that minimize machine space requirements in narrow material processing applications. They can be mounted horizontally or vertically directly to the machine frame. The red point on the base of the sensor indicates the positive measuring direction. Even with low material wrap angles, the design of the RMGZ 900 mini Series offers high accuracy measuring capability.

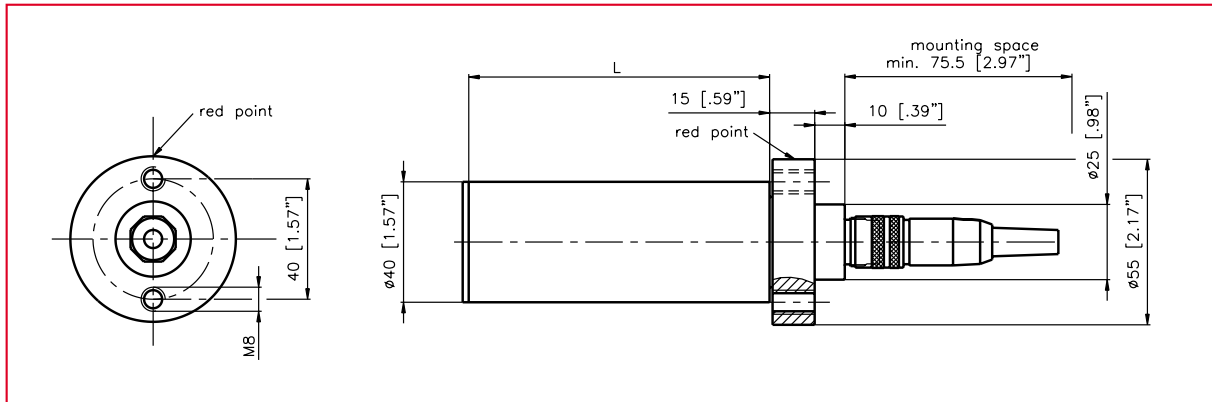
● **Functional Description**

Foil type strain gauges mounted in a full Wheatstone Bridge configuration perform the actual tension measurement. The dual flexion beam design ensures accurate measurement at any position on the roller while maintaining the parallel position of the material and eliminating angular deflection. A built in mechanical hard-stop provides high overload protection ensuring that frequent recalibration is not required.

**RMGZ 900 mini Series ● Technical Data**

<b>Sensitivity</b>	1.8 mV/V
<b>Tolerance of sensitivity</b>	< ±0.2 %
<b>Accuracy class</b>	± 0.5 %
<b>Temperature coefficient</b>	± 0.1 % / 10K [± 0.0055 % / °F]
<b>Temperature range</b>	-10...+ 60 °C [14...140 °F]
<b>Input resistance</b>	350 Ω
<b>Supply voltage</b>	1...12 VDC
<b>Overload protection</b>	10 times rated nominal force
<b>Sensor material</b>	Stainless steel
<b>Roller material</b>	Anodized aluminum

**RMGZ 900 mini Series ● Dimensions in mm [inch]**



**RMGZ 900 mini ● Dimensions / Nominal Force**

FMS Order Code	Nominal Force		Length	
	N	lbs	mm	inch
<b>RMGZ912.100.40.E</b>	20	4	100	3.94
<b>RMGZ913.100.40.E</b>	30	7	100	3.94
<b>RMGZ915.100.40.E</b>	50	11	100	3.94
<b>RMGZ921.100.40.E</b>	100	22	100	3.94
<b>RMGZ922.100.40.E</b>	200	45	100	3.94
<b>RMGZ915.150.40.E</b>	50	11	150	5.91
<b>RMGZ921.150.40.E</b>	100	22	150	5.91
<b>RMGZ922.150.40.E</b>	200	45	150	5.91
<b>RMGZ915.200.40.E</b>	50	11	200	7.87
<b>RMGZ921.200.40.E</b>	100	22	200	7.87
<b>RMGZ922.200.40.E</b>	200	45	200	7.87

**Options:**

- H14** = right angle plug
- H30** = modified wiring and sealing for oil based environments

**Order code:**

**RMGZ915.100.40.E.H14**

Option \_\_\_\_\_

**Scope of delivery:**

Straight connection plug, mounting screw  
 Special sizes and roller surface treatments  
 available on request

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