# Press Release

**Inclination sensors – angular measurement in harsh environments**



(26.06.2017) When it comes to tough outdoor use, many sensors reach their limits. Inclination sensors by sensor expert Baumer stand for maximum reliability and durability even in a harsh environment. Thanks to the extremely robust and resilient design, the new GIM500R sensors are ideal for outdoor applications in mobile automation and ensure maximum system uptime.

The GIM500R inclination sensors excel by ultra-high accuracy up to ±0.1˚ for absolute reliability and precise positioning. The E1-compliant and uncompromising design with optimal EMC properties, IP 69K protection and corrosion resistance up to C5-M is particularly addressing demanding outdoor applications. Their shock and vibration resistance up to 200 g respectively 20 g and the wide temperature range from +85 down to  
-40°C make the inclination sensors particularly durable in temperature fluctuations and any type of soiling. The integrated EN13849-compliant firmware meets the highest requirements on reliability which allows for standard components to be used in functional safety systems up to PLd level. Another hallmark of the new series is optional redundant system design where required.

Inclination sensors of the GIM500R series stand out by their compact aluminium housing, high cost-efficiency and maximum flexibility in system design. They fit in the confined installation space prevailing in mobile automation and heavy vehicles.

Learn more: www.baumer.com/GIM500R

*Photo: The compact GIM500R inclination sensors in robust aluminium housing are ideal for use in harsh environments.*

Number of characters (with spaces): approx. 1400

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

The Baumer Group is one of the worldwide leading manufacturers of sensors, encoders, measuring instruments and components for automated image processing. Baumer combines innovative technologies and customer-oriented service into intelligent solutions for factory and process automation and offers an unrivalled wide technology and product portfolio. With around 2,400 employees and 38 subsidiaries in 19 countries, the family-owned group of companies is always close to the customer. Baumer provides clients in most diverse industries with vital benefits and measurable added value by worldwide consistent high quality standards and outstanding innovative potential. Learn more at [www.baumer.com](http://www.baumer.com) on the internet.

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