Baumer



SONUS

The smallest and lightest ultrasonic sensors worldwide

SONUS ultrasonic sensors 10 x 14 x 27 mm small and 4 grams light

What characterizes the *SONUS* sensors?

- The smallest and lightest ultrasonic sensors worldwide
- Positioning, counting, measuring
- Long measuring range, short blind region
- High resolution
- Narrow sonic cone profile, e.g. for level measurement
- Connection variants: cable, connector, flylead connector
- Models for synchronization and multiplex operation
- Simple Teach-in procedure with external control line
- Simplest mounting

Ultrasonic technology gives you more benefits!

Detection of objects regardless of:

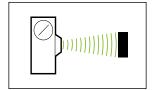
- Surface structure
- Color
- Reflection
- Transparency

Insensitive to:

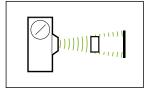
- Soiling
- External light effects

Positioning, counting, measuring – SONUS can do it all!

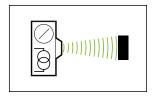
The new *SONUS* sensor range fully covers the three most important tasks of industrial automation. The new sensors complement the wide portfolio of Baumer ultrasonic sensors in an ideal way. Due to *SONUS*, miniaturization has also become reality with ultrasonic sensors.



Proximity switches For positioning and detecting transparent, reflective or multicolored objects.



Retro-reflective sensors Optimally suited to detect or count objects with soundabsorbing surfaces.

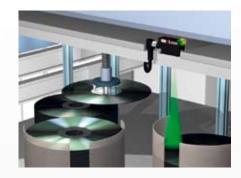


Analog sensor
Permit measurement of distances with high linearity and a resolution of less than 0,3 mm.

SONUS ultrasonic sensors in automation technology

Height measurement

Distance to objects can be reliably measured regardless of the surface color, reflectivity or transparency with *SONUS*.



Level measurement

Due to the small size and low weight, the *SONUS* sensor can be installed directly in applications with high acceleration. Levels can also be reliably measured in narrow cartridges.



Distance detection

With its small shape, the *SONUS* can also be installed in microgrippers which, until now, did not have enough space for ultrasonic sensors.



Typical fields of application

- Handling and robotics
- Machine construction
- Special machines
- Laboratory automation
- Filling machines
- Semiconductor industry
- Packaging machines



As an alternative to the *SONUS* ultrasonic sensors, Baumer also offers solutions with red light and laser sensors as well as fiber optic versions in the same series 10 housing. This ensures that different technologies are interchangeable if required — it is unnecessary to replace the mounting brackets.





Series 10 Red light and laser sensors (Actual size)

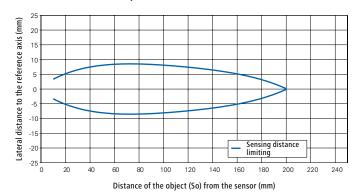


Series 10 Fiber optic sensor (Actual size)

The most important technical features

	Proximity switches	Retro-reflective sensors	Sensors with analog outputs
Scanning range Sd	10200 mm	0200 mm	20200 mm
Repeat accuracy	< 0,5 mm	< 1,5 mm	< 0,5 mm
Resolution	-	-	< 0,3 mm
Temperature drift	< 0,18% Sde/K	< 2% of measuring range	< 2% of measuring value
Response time	< 15 ms	< 15 ms	< 60 ms
Operating temperature	-10+60 °C	-10+60 °C	-10+60 °C

Narrow sonic cone profile for constrained conditions



The right solution for each connection



Dimension drawing



Plug and Go with SONUS accessories



Sonic beam deflector (45 deg) Part No. 162376



Mounting plate Part No. 162083



Mounting bracket Part No. 118798



Cable with connector (L 2 m) single ended Part No. ESG 32AH0200

Ordering information

	Proximity switches	Retro-reflective sensors	Sensors with analog outputs
Connector version PNP	UNDK 10P8914/S35A	URDK 10P8914/S35A	
Connector version NPN	UNDK 10N8914/S35A	URDK 10N8914/S35A	
Connector version 010 V	20		UNDK 10U6914/S35A
Cable version PNP	UNDK 10P8914	URDK 10P8914	
Cable version NPN	UNDK 10N8914	URDK 10N8914	
Cable version 010 V			UNDK 10U6914
Flylead connector version PNP	UNDK 10P8914/KS35A	URDK 10P8914/KS35A	
Flylead connector version NPN	UNDK 10N8914/KS35A	URDK 10N8914/KS35A	
Flylead conn. version 010 V			UNDK 10U6914/KS35A

Baumer offers an extensive product range of ultrasonic sensors. More info at www.baumerelectric.com/en/198.html

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