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DATASENSING UH ULTRASONIC SENSORS

UHS/AN-0A
50 x 24 x 15mm cubic Through beam 1100mm NPN NO cable 2m 90°

- Sensing distance: 0-300mm (UHZ), 0-1100mm (UHS)
- Plastic housing
- Outputs NO, NC, PNP, NPN
- IP67 protection
- Total protection against any type of electric damages

PRODUCT DESCRIPTION

The **UH series of through-beam ultrasonic sensors** from Datasensing offer an innovative and compact solution for a wide range of industrial applications. These small cubic sensors are designed to be highly versatile, making them ideal for space-constrained environments while maintaining exceptional performance. Whether you're integrating them into automation systems, robotics, or even healthcare applications, the UH series provides the precision and reliability needed for accurate distance measurement and object detection.
With both current and voltage analogue outputs available, the UH ultrasonic sensors deliver flexible connectivity options to meet the demands of various control systems and applications. These outputs allow for seamless integration into industrial automation systems, where real-time data and precise measurements are essential. The small cubic form factor allows for easy installation in confined spaces without compromising performance, making the UH series a great fit for applications in manufacturing, logistics, and material handling.
The UH ultrasonic sensors work by emitting high-frequency sound waves (typically above 20 kHz) and measuring the time it takes for the waves to reflect off objects. This principle of sound wave reflection enables the sensors to accurately determine distances or detect the presence of objects, even in environments with dust, dirt, or other potential interference. This robust technology ensures precise and reliable performance in challenging industrial settings, where traditional sensors may fail.

Technical features:

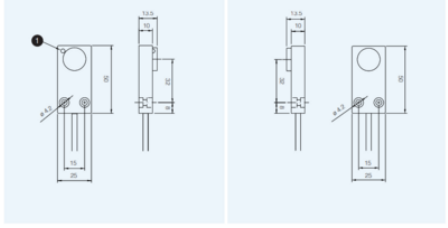
- **Compact Cubic Housing**: Small and space-saving cubic design ideal for installations in tight spaces or where traditional sensors may not fit.
- **Through-Beam Sensing Mode**: Designed for through-beam sensing applications
- **Current or Voltage Analog Outputs**: Offers flexible output options (current or voltage) **High-Frequency Ultrasonic Waves**: Utilizes ultrasonic sound waves (above 20 kHz) to measure distance and detect the presence of objects with high precision.
- **Distance Measurement via Sound Wave Reflection**: Operates by emitting sound waves and measuring the time it takes for the waves to reflect off an object
- **Wide Measurement Range**: Capable of measuring a wide range of distances
- **Versatile in Harsh Environments**: Functions effectively in challenging environments with dust, dirt, or noisy conditions
- **Fast Response Time**: Offers quick response times
- **Temperature Compensation**: Includes temperature compensation features to maintain consistent and reliable performance over a wide range of temperatures.
- **IP Protection Rating**: Provides excellent protection against dust and water
- **Easy Installation**: The compact and simple design allows for quick and easy installation in various applications
- **Wide Operating Voltage Range**: Supports a broad input voltage range

TECHNICAL DATA

Distance max	1100 mm
Distance min	0 mm
Electrical connection	Embedded 2m cable

Housing	Cubic
IP class	IP67
LED indication	Yes
Material of body	PBT
Output	NPN, NO
Photocell technology	Through beam
Supply voltage dc max	30 V DC
Supply voltage dc min	19 V DC
Temperature operational max	60 °C
Temperature operational min	-15 °C

dimensions (mm)



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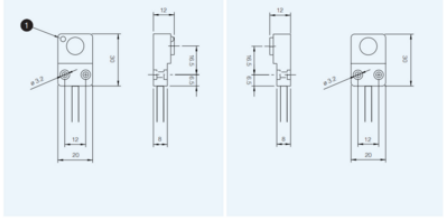
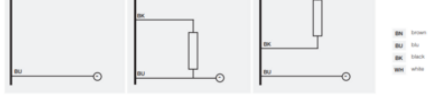


electrical diagrams of connections



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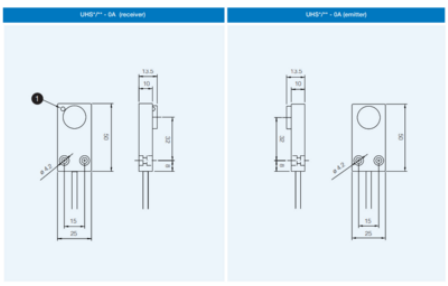

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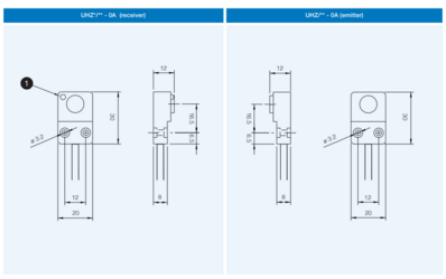

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