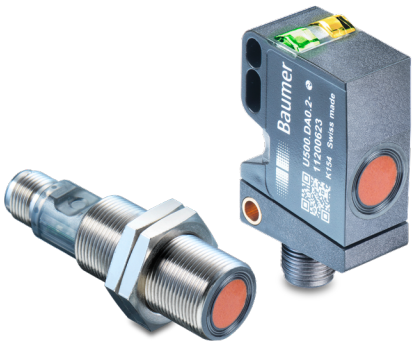
Robust ultrasonic distance sensors

Extremely resistant and with flexible parameterization



Your advantages with the U500 and UR18 ultrasonic sensors

Highest process reliability and longevity
Durable and highly economical thanks to hermetic sealing of the sensor element with extremely robust PEEK foil.

With *NexSonic*® ultrasonic technology for:

- Fast response times
- Very short blind range of 20 mm
- Sensing distance up to 2000 mm
- Flexible and application-specific parameterization with IO-Link
- Variable sonic cone settings for a wide range of applications

U500 & UR18 overview

Function	Family	Housing	Sensing distance	Blind range	Response time (min)	Settings
Proximity	**U500.**PA0	Cubic, chemically resistant	1000 mm	20 mm	24 ms	**Sonic cone:** Wide Medium Narrow
	UR18.PA0	Round, chemically resistant	1000 mm	20 mm	24 ms	
Retroreflective	**U500.**RA0	Cubic, chemically resistant	1000 mm		24 ms	**Sonic cone:** Wide Medium Narrow
	UR18.RA0	Round, chemically resistant	1000 mm		24 ms	
Distance	**U500.**DA0	Cubic, chemically resistant	1000 mm	20 mm	24 ms	**Sonic cone:** Wide Medium Narrow
	UR18.DA0	Round, chemically resistant	1000 mm	20 mm	24 ms	
Through-Beam	**U500.**EB0	Cubic, chemically resistant	2000 mm		9 ms	**Distance:** Long Medium Short
	UR18.EB0	Round, chemically resistant	2000 mm		9 ms	

The sensors are suitable for distance measurement and object detection when reliable detection is required.
The measurement signal is independent of the color, shape, and transparency of an object.