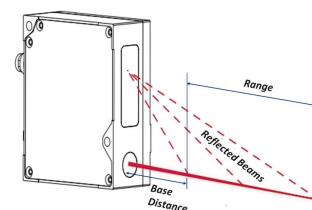


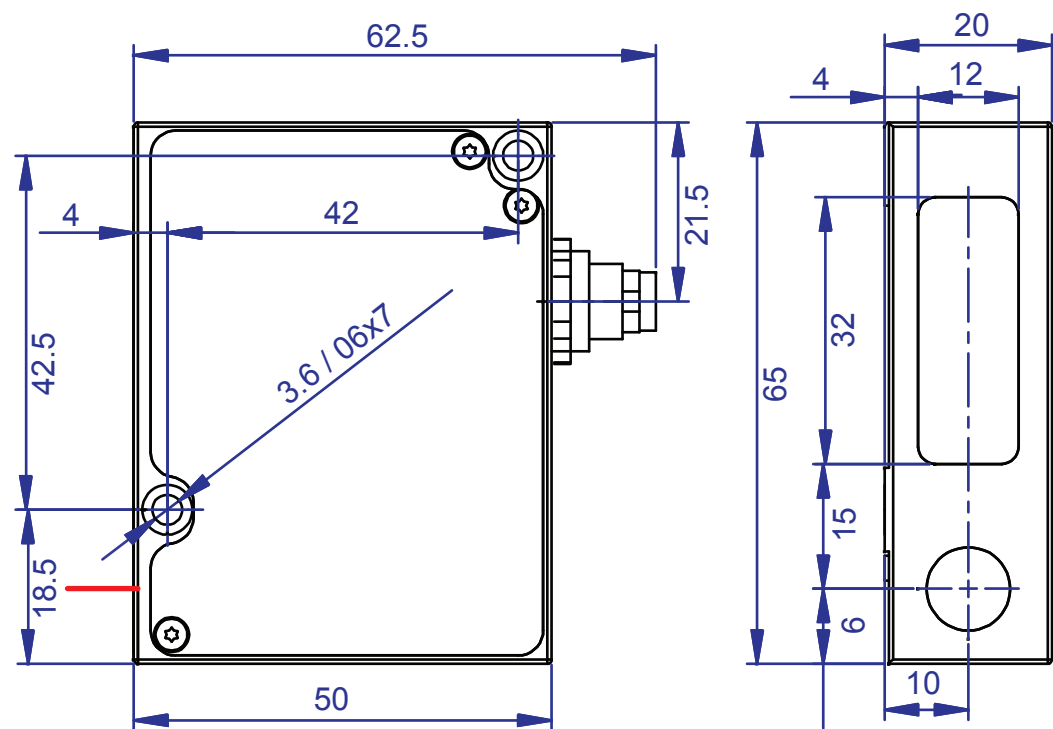
The **AR500** is a triangulation sensor that measures distance by projecting a beam of laser light that creates a spot on a target surface. Reflected light from the surface is viewed from an angle by a CMOS detector array inside the AR500 sensor. The target's distance is calculated from the image pixel data using the sensor's microprocessor. The distance is transmitted through serial communications, analog outputs or optionally, via Ethernet. A variety of models are specified, each to allow a different measurement range and standoff.



**Sample Rate:** Speed that data samples are obtained from the sensor. The maximum attainable sample rate is determined by the selected operating mode and target reflectance.

[illegible]

Mechanical Dimensions units in mm.



AR500 Sensor Options

- Connectivity kit:** Includes terminal blocks, serial cable with molded DB9 connector, AC power supply with 110 VAC or 240 VAC
- High power lasers:** Diode upgrades to visible red or blue for high sample rates on dark surfaces or in high ambient light.
- Cables:** Optional, longer cables. Contact us for custom cabling needs.
- Serial interface:** Optional RS485 interface for long-distance connections. Replaces RS232.
- Analog interface:** Optional 0-10 V analog interface signal. Replaces 4-20mA signal
- Internal heater:** Permits sensor use to -30°C
- Air-cooled jacket:** Enclosure with forced air to cool sensor for use up to 120°C. Sensor must be calibrated inside jacket at factory.
- Spray guard:** Open-sided enclosure which helps to keep debris off optical windows.

Laser Safety Labels

