

Sonic OMNI-BEAM™: Short range AC & DC piezoelectric detection

Adjustable sensing window.

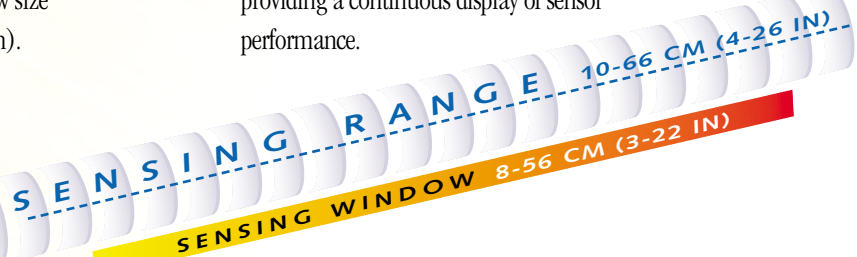
Easy adjustment of sensing window width and near limit is achieved by simply adjusting 15-turn potentiometers while observing LED's, or a dc voltmeter for analog units. Sensing range is from 10 to 66 cm (4 to 26 in); window size can be from 8 to 56 cm (3 to 22 in).



Simplified setup with 10 element LED array.

Moving dot LED's visually display the relative position of the target within the sensing window, making initial setup fast and easy, while providing a continuous display of sensor performance.

U-GAGE™



ON/OFF and HIGH/LOW control modes (switched output models).

ON/OFF presence detection or HIGH/LOW level control modes are switch selectable, meeting the logic needs for presence detection as well as fill-level, web tensioning control and similar applications.



KAPTON® Protected Transducer.

Protected from hostile environments with a rugged polyimide film seal.

Modular AC or DC Input.

Sensor head is easily coupled to modular power blocks providing the supply voltage you need, 105 to 130V ac, 210 to 250V ac or 18 to 30 V dc.

Analog output models.

Output voltage is proportional to the distance of the sensor from the target object within the sensing window. Output value can be voltage or current and can be programmed to increase (positive slope) or decrease (negative slope) with increasing distance of the target from the sensor.



Sonic OMNI-BEAM™ Model Selection



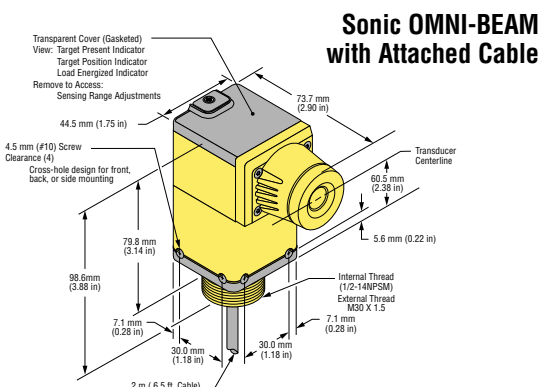
Sonic OMNI-BEAM Sensor Head Model

Models	To Complete Sensor	Range	Supply Voltage	Output
OSBUSR	Select power block from chart, below	100 to 660 mm (4 to 26")	Provided by Power Block	Provided by Power Block

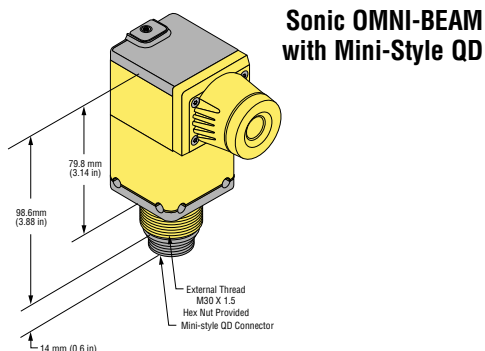
Sonic OMNI-BEAM Power Block Models

Models	Cable*	Supply Voltage	Response Time	Output Type
OPBT5 OPBT5QD	2 m (6.5') 5-pin Mini QD	18 to 30V dc	Discrete Output: Programmable for 25, 75, 250, or 750 ms	Discrete: SPDT Electromechanical Relay
OPBA5 OPBA5QD	2 m (6.5') 5-pin Mini QD	105 to 130V ac		
OPBB5 OPBB5QD	2 m (6.5') 5-pin Mini QD	210 to 250V ac		
OPBT3 OPBT3QD	2 m (6.5') 4-pin Mini QD	18 to 30V dc	Analog Output: 25 ms	Analog: 0 to 10V dc and 10-0V dc
OPBA3 OPBA3QD	2 m (6.5') 5-pin Mini QD	105 to 130V ac		
OPBB3 OPBB3QD	2 m (6.5') 5-pin Mini QD	210 to 250V ac		

* 9 m (30') cables available by adding suffix "W/30" to the model number of any cabled sensor. A model with a QD connector requires a mating cable (page 36).



Sonic OMNI-BEAM with Attached Cable



Sonic OMNI-BEAM with Mini-Style QD

Sonic OMNI-BEAM Specifications

Analog resolution or discrete repeatability	0.25% of sensing distance
Linearity	1% of full scale
Response speed	25 to 750 ms, depending on power block see Model Selection
Temperature effect	0.2% of sensing distance/deg. C
Environmental rating	IP66, NEMA 4
Data sheet reference Download at www.baneng.com	03536