

MAXI-BEAM Sensor Heads

Sensing Mode

Models

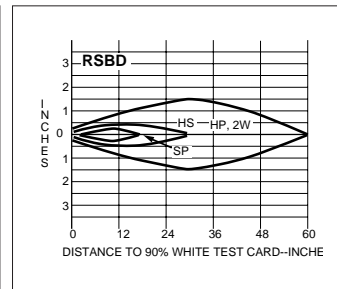
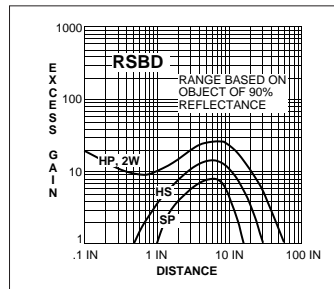
Excess Gain

Beam Pattern



RSBD

Range: 5 feet (1.5 m) in HP and 2W modes
Beam: infrared, 880nm
Response:
 HP, 2W modes: 10ms
 HS mode: 1ms
 SP mode: 0.3ms
Repeatability: HP, 2W= 3.3ms; HS = 0.3ms; SP = 0.1ms

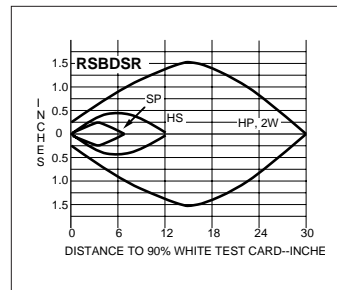
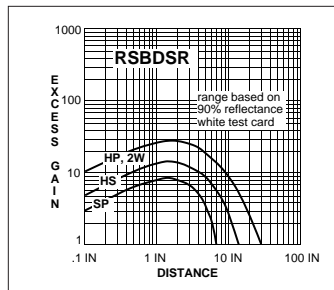


DIFFUSE Mode



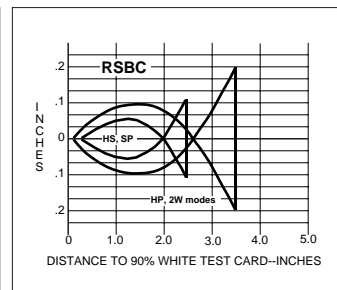
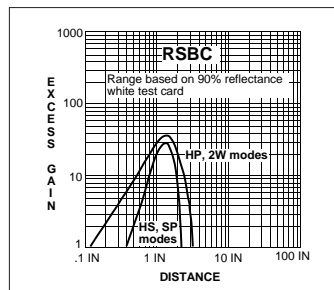
RSBDSR (short range)

Range: 30 inches (76cm) in HP and 2W modes
Beam: infrared, 880nm
Response:
 HP, 2W modes: 10ms
 HS mode: 1ms
 SP mode: 0.3ms
Repeatability: HP, 2W= 3.3ms; HS = 0.3ms; SP = 0.1ms



RSBC

Focus at 1.5 in. (38mm)
Beam: infrared, 940nm
Response:
 HP, 2W modes: 10ms
 HS mode: 1ms
 SP mode: 0.3ms
Repeatability:
 HP, 2W= 3.3ms;
 HS = 0.3ms;
 SP= 0.1ms

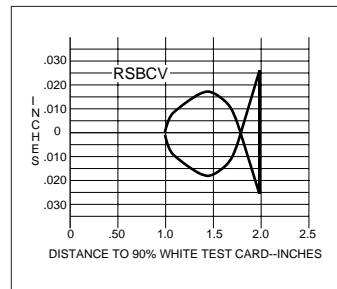
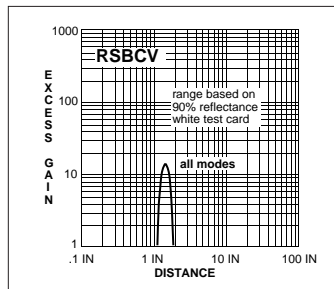


CONVERGENT Mode



RSBVC

Focus at 1.5 in. (38mm);
 performance equal in all program modes.
Beam: visible red, 650nm.
Response:
 HP, 2W, SP modes: 4ms
 HS mode: 1ms
Repeatability:
 HP, 2W, SP= 1.3ms;
 HS = 0.3ms



Powerful infrared beam reliably senses objects of low reflectivity. Ideal for counting the flow of radiused products at a fixed distance from the sensor.

Powerful visible red beam detects small objects only a fraction of an inch away from backgrounds. Useful in many high-contrast color registration applications.

FIXED-FIELD Mode



RSBFF models

Far limit cutoff at:
 50mm (model RSBFF50) or
 100mm (model RSBFF100)
Beam:
 infrared, 880nm.
Response:
 HP mode: 10ms
Repeatability:
 HP mode: 3.3ms

Fixed-field sensor heads have an emitter element and two differently-aimed receiver elements. This creates a high-gain sensing field able to detect objects of low reflectivity, and a sharp far-limit sensing cutoff of 50mm (2 inches) or 100mm (4 inches) which ignores backgrounds beyond cutoff.

These sensors are ideal for detecting a part or surface that is only a fraction of an inch in front of another surface.

RSBFFs may not be used with 2-wire power blocks.

