

Diffuse Reflection

The source and detector are positioned on the same side of the target. The two components are aligned so that their fields of view cross. **When the target moves into the area, light from the source is reflected off the target surface back to the detector.**

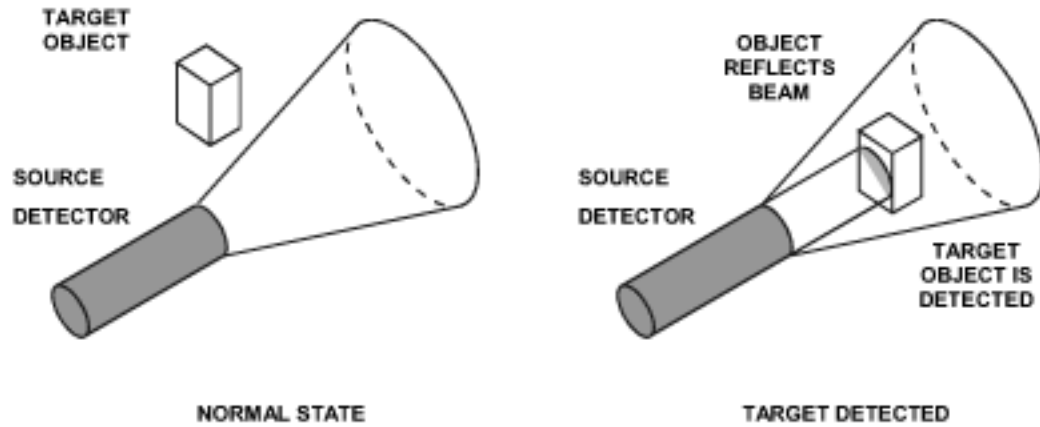


FIGURE 86: DIFFUSE REFLECTION OPERATION

Strengths	Weaknesses
<ul style="list-style-type: none"> • Application flexibility • Low cost • Easy installation • Easy alignment • Many varieties available for many application types 	<ul style="list-style-type: none"> • Short sensing distance (under 6') • Sensing distance depends on target size, surface and shape