



Product Spotlight on...

BOS 12M Optoprox

BALLUFF

sensors worldwide

The Photo-eye that Thinks It's a Prox!

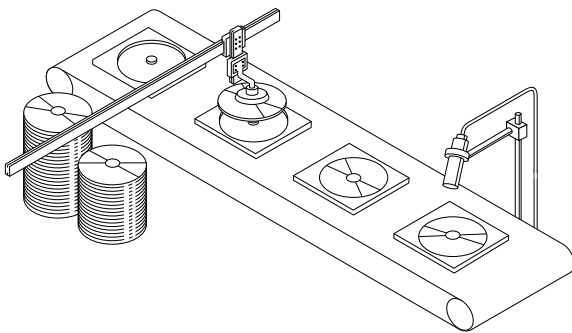
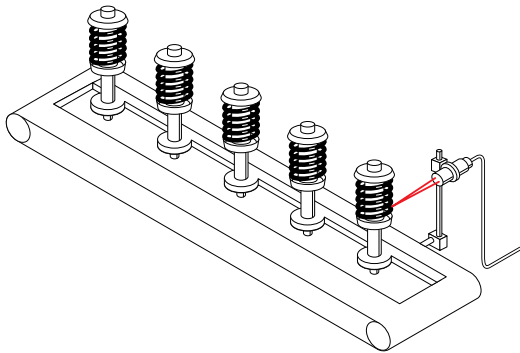
Balluff Optoprox sensor combines photoelectric range with inductive sensor reliability.

Balluff's Optoprox combines the best features of inductive and photoelectric sensors. It's the photoelectric sensor that offers the mounting, aligning, and handling simplicity of an inductive proximity sensor, but without the range limitations typical of inductive sensors. The Optoprox design utilizes focused red light with fixed focus background suppression, offering sensing ranges of 23 mm or 60mm.

Optoprox's rugged construction allows for specification in applications where most photoelectrics fear to tread. The reliable fixed sensing distance provides repeatable sensing in a wide variety of target materials, precise background suppression, and small part sensing applications. The high intensity red light provides for easy alignment, even with small parts and typically difficult materials like black plastic, rubber, and polished metals.

Typical applications:

- Presence sensing
- Positioning
- Control and monitoring of discrete and process automation sequences
- Poke-Yoke in settings too severe for standard photoelectric sensors



Background
Suppression Sensor



Fixed Focus
Sensor

Balluff Part Number	Operation Mode
BOS 12M-PU-1HA-S4-C	BGS
BOS 12M-PS-1N1I-S4-C	Fixed Focus

Sensing Distance	10...60mm teach (BGS) 23mm (Fixed Focus)
Output	PNP NO/NC (BGS) PNP NO (Fixed Focus)
Light Source	Visible Red 660nm
Cable Part Number	C04 AEL-00-VY-050M
Recommended Mounting System	BMS CU-M-D12-A040-00 BMS RS-M-D12-150-00 (x2) BMS CC-M-D12-B-00 BMS CS-M-D12-IZ BMS CS-M-D12-ID12-01
Prox Mount with Positive Stop	BES 12.0-KH-2L

Long Range Black Object Detection

Detection of black objects is always difficult. In this example, Macpherson strut assemblies are checked to be present within their front suspension unit. Here, the 60 mm long range capability of the Optoprox is used to assure extended sensor life by keeping it away from the heavy suspension assembly.

Shiny Object/Background Suppression Detection

In this error proofing application, an Optoprox's precise fixed range background suppression capability is used to make sure that each CD has been placed correctly within its jewel case.

For more information, visit:

www.balluff.com/optoprox

