



Product Spotlight on...

BOL 27K Analog Line Sensor

BALLUFF

sensors worldwide

Balluff photoelectric line sensor provides inexpensive edge and width measurement

Balluff's unique BOL 27K advanced measuring line sensor provides the most cost effective way to sense product width, edge detection, hole location, and web loop tension. With both discrete and analog outputs, this specialized retroreflective photoelectric sensor projects a measuring line of light onto a strip of special reflective tape, which it then uses to measure and locate key attributes of an object. The sensor's 0.15 mm resolution makes it ideal for error proofing, sheet feed control, web control, and a wide range of packaging tasks.

The BOL 27K operates in three basic modes:

Edge Position Mode

Detects the position of an object passing over the tape – ideal for strip feed positioning of objects made of materials as different as paper or steel. This mode can also provide the distance from a hole to one of the edges of an object.

Width Detection Mode

Provides the distance between the two edges of an object, such as a pipe or a group of objects (stacks of blister packs). For objects that are more than 150 mm wide, two BOL 27Ks can be used in concert to provide the measurement.

Center Positioning Mode

Detects the center of an object independent of that object's width.



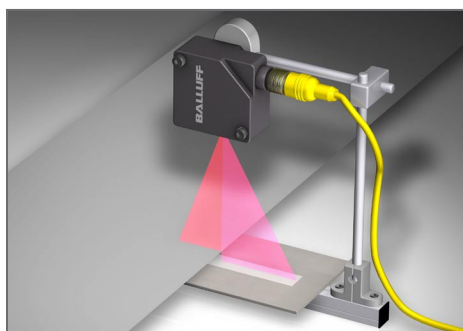
Reflective Tape
included with sensor



BOL 27K Sensor

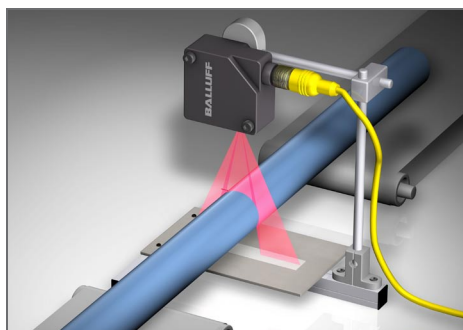
Balluff Part Number	Output
BOL 27K-PS-L01-S115	PNP + 4...20mA
BOL 27K-NS-L01-S115	NPN + 4...20mA

Sensing Distance	200 mm
Sensing Area	150 mm
Sensing Function	Retroreflective
Output	Teach discrete or analog
Cable Part Number	C04 AET-00-PB-050M
Bracket Number	BOS 21-AD-1
Jointed Support	BOS 18-HS-1



Detecting Edge Position

Once the edges of the reflective tape are calibrated, the percentage of the tape covered by an object gives the BOL 27K an accurate location of the object's edge without the need of feeler gauges or mechanical contact with the object.



Measuring Object Width

Once the length of the reflective tape is calibrated, the percent of tape blocked by the object gives the BOL 27K the width of the object. This provides a lower cost width measurement than can be had with a vision system.

For more information, visit:
www.balluff.com/LineSensor

