Product Application Note

W411-01

Application

Container profiling using measuring array - SpiderScan

Industry

Material Handling – Distribution warehouse, Small parcel sortation

Application Overview

In some applications it is necessary to determine the dimensions of a container for downstream sortation.

Application Challenges

If this application were to be solved using standard optical sensors, it would require the use of several through-beam sensors mounted on a specially constructed bracket system. This presents several challenges regarding mounting, wiring, low resolution, and potential optical cross talk between adjacent sensors.

Solution(s)

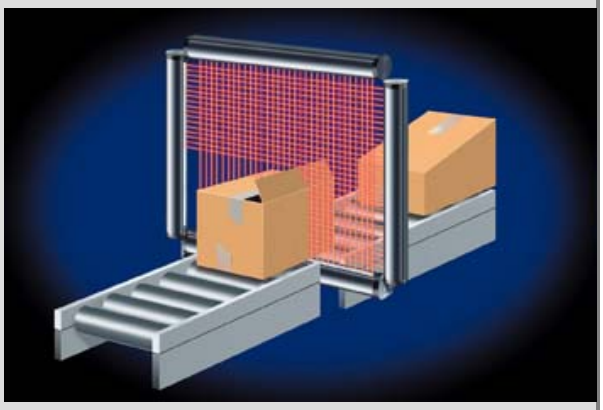
The best solution for this application is to use a measuring array sensor like the SpiderScan. These products contain an array of optical sensors inside specially designed housings.

The SpiderScan is available in seven measuring heights (390…1830mm) and can scan up to 6.5meters across. Using a PC and included software a variety of parameters such as blanking, smoothing, and output modes are easily configured. Models are available with serial, parallel, or SSI outputs.

- Parallel optics system eliminates blind spots and ensures consistent resolution (2.5mm) over the entire sensing range (up to 6.5 meters)
- Integral electronics eliminates the need for additional external signal conditioning devices
- Fast response time (7ms max) supports high line speeds

Supporting Documentation

- Baumer Sensor Solutions Catalog, page 531
- Baumer Website: SpiderScan Series



Example of two measuring arrays being used to profile the height and width of cases being transported on a roller conveyor.

For application information, contact:

Baumer Ltd.

122 Spring Street, Unit C-6

Southington, CT 06489

Phone: (860) 621-2121

Fax: (860) 628-6280

E-mail: sales.us@baumergroup.com

http://www.baumergroup.com

Customer Service/Technical Support: (800) 937-9336