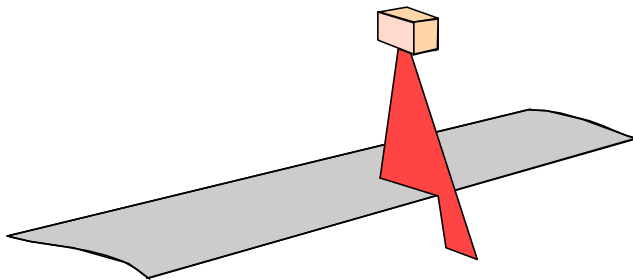


STRIP POSITION DETECTION

APPLICATION

SPICA detects the edge of an object if an optical contrast with the back ground is possible. It can be used in an automated system to check the position of the edge of a running strip. In such case the strip is sometimes moving left and right and should be centered using the rolls. An installation of one Spica head on top of the strip could do the job.



MEASURING PRINCIPLE

1D DETECTOR: One optical head integrates an infrared light which lights in a fan way around its vertical axis. The emission standard angle is $\pm 8^\circ$. In the other direction beam is very narrow. A receiver analyzes the received light and checks the shape of reflection. The internal processor analyzes the light and gives the **angular position** of the object's edge regarding the sensor optical axis : **detection of square object.**



Multiple detectors: A central computer can receive up to 6 heads and combine these measurements to do a multiple degrees measuring system.

ENVIRONMENT

SPICA detectors are designed to work in a **very harsh environment** : shocks, vibration, humidity, temperature.

SPICA is a very strong industrial sensor.

REQUIRED MATERIAL FOR THIS SOLUTION

One sensor SPICA : Réf. SOS38-CC

One calculator : Réf. SPC60



SPICA sensor



Calculator



Nota : Non-contractual document - specifications may be subject to modification without prior warning / November 2008