COIL DETECTION in 2D

CUSTOMER BENEFITS AND GAIN DECISIVE ADVANTAGES

Ø INCREASED PRODUCTIVITY
- § Shorter cycle times
- § Faster operations

Ø SAFETY
- § Increased safety for people, materials and equipments
- § Reduced stress and fatigue on the crane operator

Ø RELIABILITY
- § Specific design and ruggedness for severe environments
- § Easy installation

Ø AVAILABILITY
- § Lower maintenance cost and time as a result of less wear and tear on crane's structure
- § Reduced time loss waiting for load movement

Ø EFFICIENCY / ACCURACY
- § Accurate handling
- § Ambient light immunity

Ø HIGHER QUALITY
- § Guaranteed Quality Assurance
- § Reduced Customer non conformity and material damage

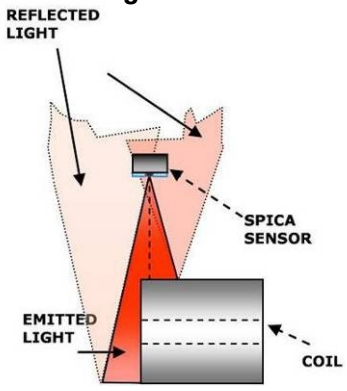
APPLICATION

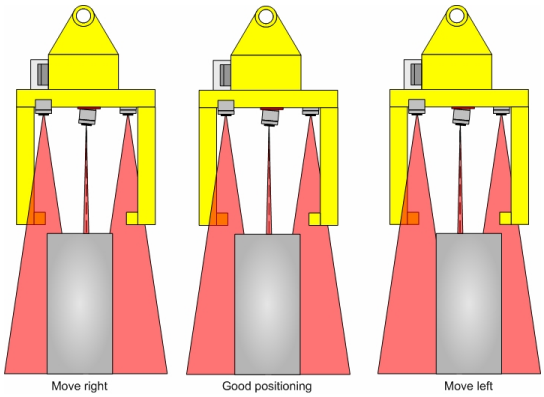
SPICA detects coil edges to *position grab* prior to handling with a hoisting crane.
It can be used in an automated system or as a help to the crane operator with a simple display.

MEASUREMENT PRINCIPLE

Two detectors check the edges of the coil. They are situated on each lateral part of the grab. They are placed in order to be exactly on top of the edge when the grab is ready to go down without touching the coil. The distance to the coil could be approximately 1,5 m to 2,0 m.

A third detector is placed in the middle of the grab with an orientation at 90°.
Its functioning is different : it is dedicated to the centering in the other direction.



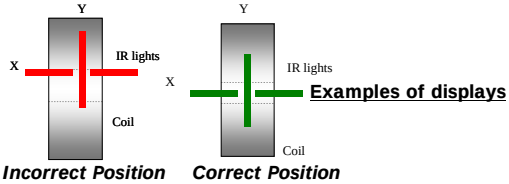


REQUIRED MATERIAL

Three SPICA sensors Ref. SOS38-ST
One calculator Ref. SPC60-ST

SPICA sensor

Calculator



Incorrect Position *Correct Position*

Examples of displays

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