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SENSOR SELECTION QUESTIONNAIRE

A. Brief description of sensing task: _____

B. Size and shape of object (or condition of object) to be sensed:

C. Spacing or gap between sensed objects: _____

D. Motion of conveying device/machine: Continuous: Cyclic

E. Length of time sensed object will remain in view of sensor: _____

Considerations

Velocity of sensed object: _____

Quality of sensed objects per hour/minute: _____

Conveyor/web speed: _____

F. Sensing Environment: Clean Slightly dirty
 Dirty Very dirty Moist Washdown area

G. Ambient temperature: _____

H. Preferred Sending Mode:

BEAM BREAK

Retroreflective Mode

Considerations:

Distance between sensor and reflector _____

Distance between sensor and sensed object _____

Surface reflectivity of sensed object:

Shiny Moderately Shiny Dull

Light transmission properties of sensed object:

Transparent Translucent Opaque

Opposed Mode

Considerations:

Distance between light source and receiver: _____

Light transmission properties of sensed object:

Transparent Translucent Opaque

BEAM MAKE

Proximity Mode or **Convergent**

Considerations:

Distance between sensed objects and objects
in background _____

Color of sensed objects _____

Color of background objects: _____

Surface reflectivity of sensed objects

Shiny Moderately Shiny Dull

Surface reflectivity of background

Shiny Moderately Shiny Dull

Light transmission properties of sensed object:

Transparent Translucent Opaque

I. Power Source:

A.C. Voltage _____ D.C. Voltage _____

J. Output Requirements:

NPN (sinking) Transistor Conventional Relay

PNP (sourcing) Transistor Solid State AC Switch (TRIAC)

K. Load A.C. Load: Current _____ Voltage _____

D.C. Load: Current _____ Voltage _____

PLC Load: A.C. Voltage _____

Allowable Leakage Current _____

D.C.: NPN Current (sinking) Transistor

PNP Current (sourcing) Transistor

Simplified Drawing of Application