

DOUBLE SHEET DETECTION



single sheet between the
the button so that the unit
learns what a single sheet is. Then following the same
procedure with a double (or thicker) sheet to define the
value for establishing a reject threshold.

The DS150 is able to easily detect a variety of metals
because of its ability to automatically recognize and
intelligently change its sensing signal based on the
material type that it is sensing.

Should trouble arise, this smart detector immediately
analyzes the problem and provides a blinking light
sequence that prompts the operator to action. The
DS150 operates on 120 Volts AC or 240 Volts AC @ 50-
60 Hz power.

DC power version also available.

PRIME
CONTROLS
Metal Sensing Solutions

PRODUCT SPECIFICATIONS

POWER INPUT: Jumper select 120 volts AC nominal or 240 volts AC nominal, 50-60 Hz, 300 m A. operating load

OUTPUTS: SPDT contact relay

MAX LOAD: 10 Amps @ 240 V ac, 8 Amps @ 24 V dc, 1/2 HP @ 240 V ac

OUTPUT FAIL SAFE: Contact goes to double condition when power is lost.

FAULT DETECTION: Green flashing indicates bad transmitter, Amber flashing indicates bad receiver, both flashing indicates a bad calibration

PROBE FREQUENCY: Auto adjust 60 Hz to 25 K Hz

PROBE TYPES: P15, P70 and P1000 series

CABLE TYPES: CBL101 series
Various cables lengths available

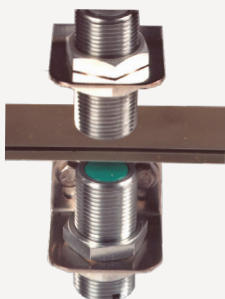
METAL SENSITIVITY: .05mm-6.35mm (.002"-.250")

PROBE SEPERATION: Dependent on metal, thickness and probe model. 0.1mm-75mm (.004"-3") steel up to 1mm(.040") thick

CALIBRATION: Push-button switch on single and double sheet sample

INDICATORS: Green for single, amber for double, green flashing for bad transmitter and amber flashing for bad receiver

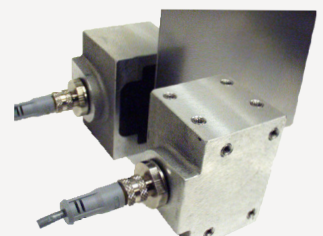
THEORY OF OPERATION: Inductive or Eddy Current energy restricts the signal from transmitter to receiver as the metal thickness increases. The DS150 automatically uses the best method for specific metal types based on calibration sampling.



P70 Probe Family (2 required)
Best on Ferrous metals
Use with all metals with thickness 1.5mm or less



P15 Probe Family (2 required)
Best on Non-Ferrous metals
Max. dual probe separation to 75mm
Max. thickness 1.5mm



P1000 Probe Family (2 required)
100x50x50mm
Use with all metal, up to 6mm thick
Max. dual probe separation extends to 75mm at 1mm thickness

