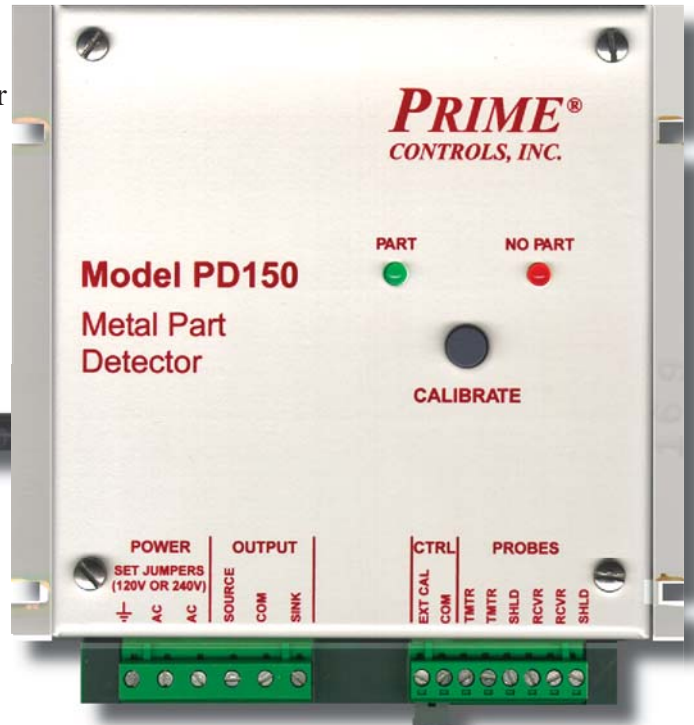


Model PD150
Single-Die Press Protection

Missing Ring Detector

- Replaces the Peco FM series Missing Blank Detector
- **Detects** metal can rings up to 6 inch diameter
- **Sensing** window of 6 square inches wide
- **Responds** to ring detection in 3-milliseconds
- **Senses ring open center as though it is metal**
- **Push-button calibration** memorizes signal with ring and sets detection threshold for output relay

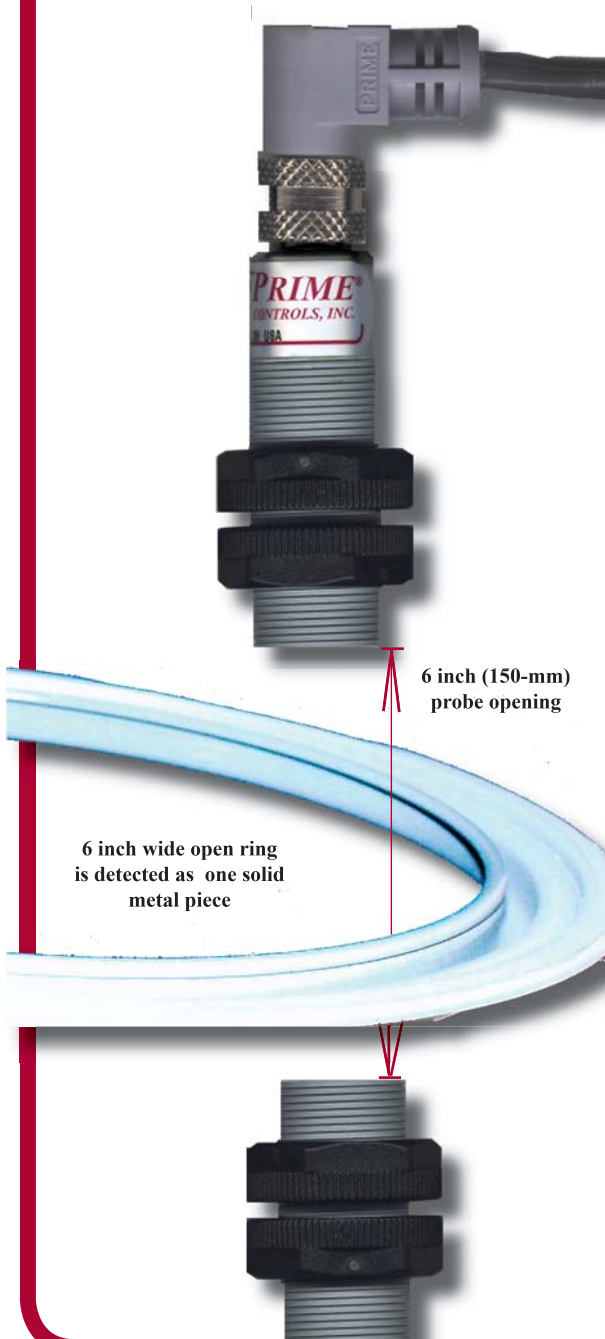


- It detects a ring as one whole piece of metal, even with a large open center. Unlike traditional detectors it will not detect each ring edge or rim as two separate parts. This makes the PLC logic for a missing part detector simple, by eliminating the need to count two rims as one ring or adding time delays.
- It detects a ring within a wide field of view. The opening between probes measures 6 inches or 150-mm wide. It is ideal for detecting a ring ejected through space without the need for guides in a press discharge chute.

The Model PD150 was developed to replace an old analog double sheet detector that was used as a missing part detector on a single die paint can ring press. It spans the opening by adjusting the sensitivity to maximum.

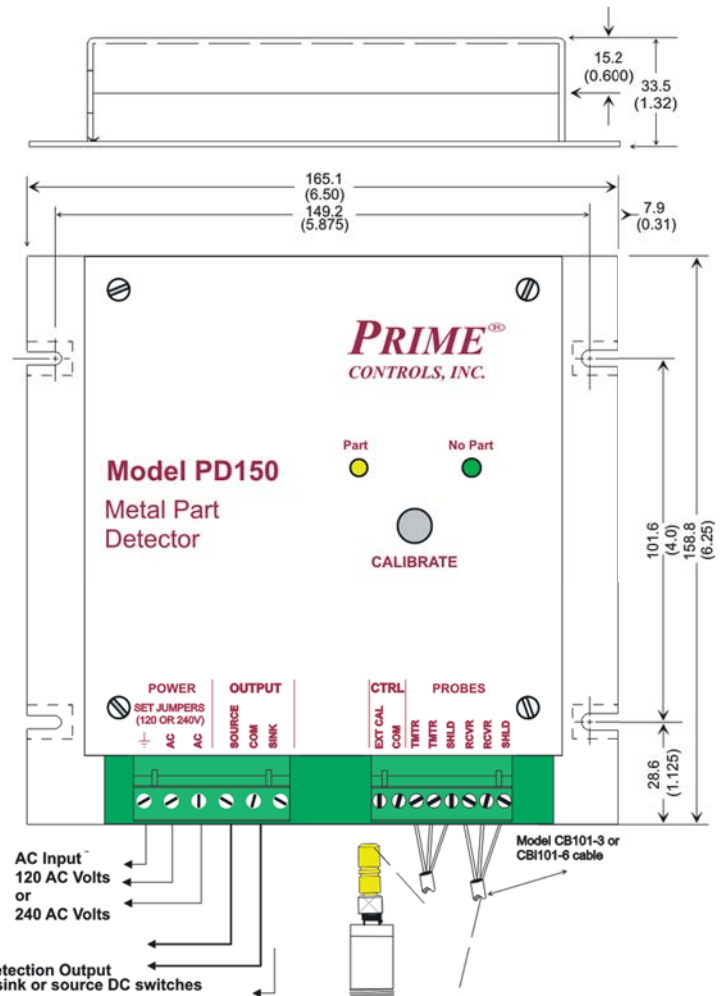
The PD150 is easy to calibrate compared to the old detector. Simply position the ring between the transmitter and receiver probe assembly and push the calibration button on the front of the control once. The detector memorizes the ring signal and sets the detection level threshold. The output relay energizes when the signal falls below the threshold value as the ring passes through the sensor assembly.

Should trouble arise, this smart detector immediately analyzes the problem and provides a flashing light sequence that prompts the operator to action. The PD150 operates on 120 Volts AC or 240 Volts AC @ 50-60 Hz power. The PD150 is an excellent detector for steel, aluminum, tinplate and many other metals.



Specifications

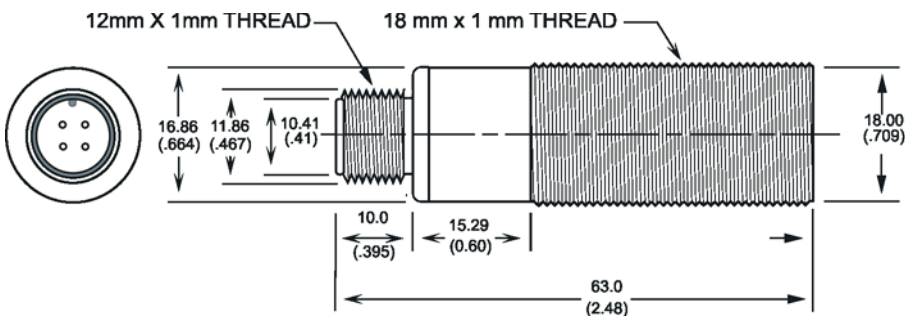
- Power input: Jumper select 120 Volts AC Nominal or 0 Volts AC nominal, 50 to 60 Hz
- Output: 300 m A. operating load
2 highspeed outputs
Sinking NpN transistor output (5 to 30 V dc @ 50 mA max sustained, 40 amps momentary, self resetting fuse)
Sourcing PnP transistor output (max. load source 24 Volts, 100mA max, self resetting fuse)
- Max load 10 Amps @ 240 V ac
8 Amps @ 24 V dc
½ HP @ 240 V ac
- Output fail safe: Outputs are active ON for ring
- Fault Alarm: Indicators flash, outputs are Off
- Response time: < 3 m Sec.
- Probe frequency: Fixed at 22000 Hz
- Probe types: P15T18P (two) PVC housing 18-mm threaded barrel with 4 pin mini-connector stainless threaded connector
- Metal sensitivity: Steel, Tinplate, Aluminum
- Probe separation: 6 inches, 150 mm maximum
- Calibration: Push-button teach on a single ring
- Indicators: Operation: Green on detects ring, Amber nothing detected
Faults: Green flashing indicates bad transmitter
Amber flashing indicates bad receiver.
Green/ Amber alternately = no calibrate



Operating principle: Eddy currents generated by the transmitter, create an electrical field around the ring that impedes signal to the receiver.

P15T18PH Probe PVC Housing, 18 mm thread barrel with 4 pin micro-connector

(Two required, one transmitter, one receiver)



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