

MODEL P1CS

Thin Metal Thickness Probes

Extended Range • Quick Change • Rugged

A set of (2) Model P1CS probes with either a Model DS3400 and DS3410 control is capable of detecting thin .5 ounce copper plate, .1 mm aluminum or hard to detect .5 mm stainless steel. Primarily designed to detect double thickness, a resolution of 5% or greater is achievable in many cases. The primary advantage of a set of P1CS probes over our Model P1C and Type "AX" probes is the increased transmitter to receiver separation. A separation of 75 mm or greater is possible. Additional separation out to 130 mm is possible if the stainless, copper or aluminum foil is restricted to vertical motion (photo reference) within 50% of the separation. As the demand for greater separation increases, so must the measured target. The target diameter should be approximately equal to the separation. When inspecting metal smaller than 25 mm in diameter use the P1C or Type "AX" probes. The Model P1CS probe is a smooth barrel stainless steel housing with a sealed micro-connector extending from the side. The probe measures 24 mm in diameter by 51 mm long. Two Model P1CS probes are interchangeable as transmitter and receiver.

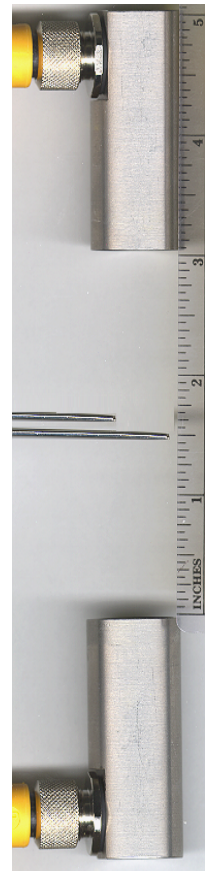
Product within Sheet Feeders, Strip Feeders, Printed Circuit Board Feeders and Blister Pack Cartoners are easy to monitor. These probes allow ample room to remove jammed product in tight locations. The increased range of the P1CS makes it possible to distinguish one out of ten aluminum foil blister packets in a carton, within 100 mm separation.

Housings are made of #303 stainless steel. There are virtually no exposed surfaces to damage fragile components. If a probe is changed, a micro style cable/connector permits quick and easy replacement.

For thicker metals, refer to Prime's Models DS150, DS1520 or DS1522 Double Sheet Detectors and probes.

Features to consider.

- Long range double sheet sensitivity to 75 mm for stainless steel, aluminum foil blister pack (less than .1 mil) and copper plate of .2 ounce weight.
- Rugged machined 303 stainless steel
- Completely epoxy encapsulated
- Quick disconnect micro cable/connectors
- Nema 4, IP67 rating
- Cable made of twisted pair conductors for increased noise immunity
- Operates with Prime Models DS3400 and DS3410 detectors



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