

IFR 05 Inductive Sensor Fits the Bill in Progressive Die Protection

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Diagram 1

Product: IFF 05

Industry: Metal Stamping

The Application: As part of a die-protection system, the customer needed to verify the presence of a pilot hole in a progressive die/stamping application. The Pilot hole is primarily a means to move the workpiece through the die.

It does however offer an added benefit: the pilot hole is an ideal reference point at which to verify the position of the workpiece in the die. The work piece position is of paramount importance. If the piece has not progressed to the next step in the die closes, it will create what is known as a “double hit.” Double hits are the major cause of die crashes, which result in thousands of dollars in damage.

Customer Benefit

To combat the occurrence of double hits, the customer uses a Baumer Electric IFF 05 tubular inductive sensor to verify workpiece position by sensing the pilot hole. The customer prefers Baumer Electric’s 5 mm due it’s small size, and the rugged design of the PUR molded-in connector.

Diagram 1 shows the sensor (yellow halo) in customer-designed mounting block. The sensor is a shielded version, allowing it to be flush-mounted in

the steel block without causing false triggers.

Diagram 2 illustrates the actual die in action. The sensor (yellow halo), in the mounting block (green arrow) detects the presence of the pilot hole in the workpiece (red halo). The work piece progresses through the various stages in the direction of the arrow.

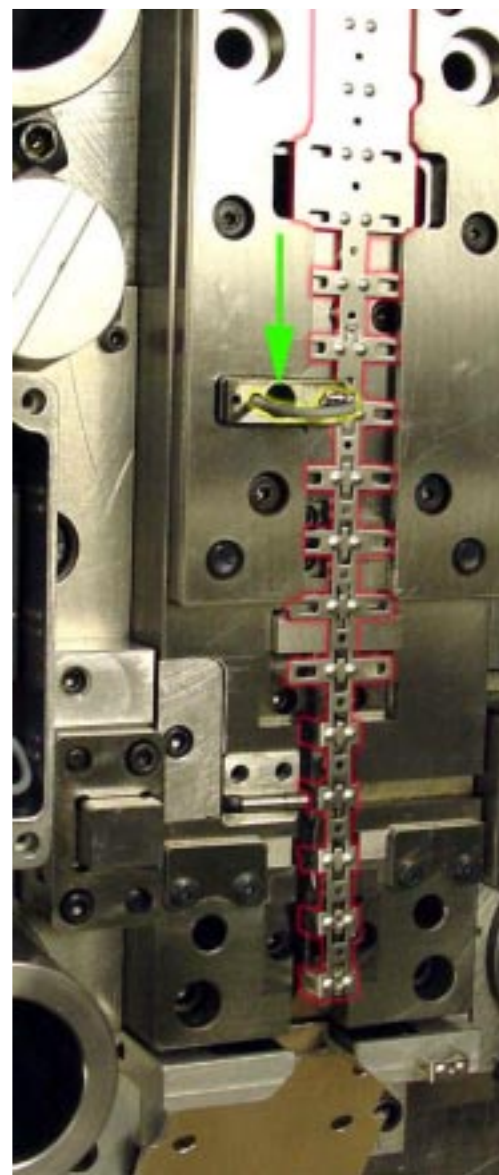


Diagram 2



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