

## Application

Accurate detection of abnormal die conditions to prevent costly damage to dies in stamping presses.

## Industry

- Machine Tool Industry
- Stamping Industry

## Application Overview

For metal stamping or forming manufacturers, part quality specifications demand smart-process improvements. Monitoring conditions optimizes production reliability. Inductive measuring sensors are used to provide feedback from stamping processes and improve production yields.

## Application Challenges

Space is very limited, but high-performance sensors are required. Mounting is very difficult in the available area, and mounting brackets are impractical due to limited space. Considerable cable flexing will occur, and the sensor will be exposed to various oils, resulting in premature wear of the cable.

## Solution(s)

- Inductive flat-pack sensors mount face-up at various points, providing needed measuring with limited space usage
- These sensors have holes through the front of the housing, eliminating mounting brackets
- Polyurethane (PUR) cables are resistant to oils and flexing, vastly increasing the product lifetime.

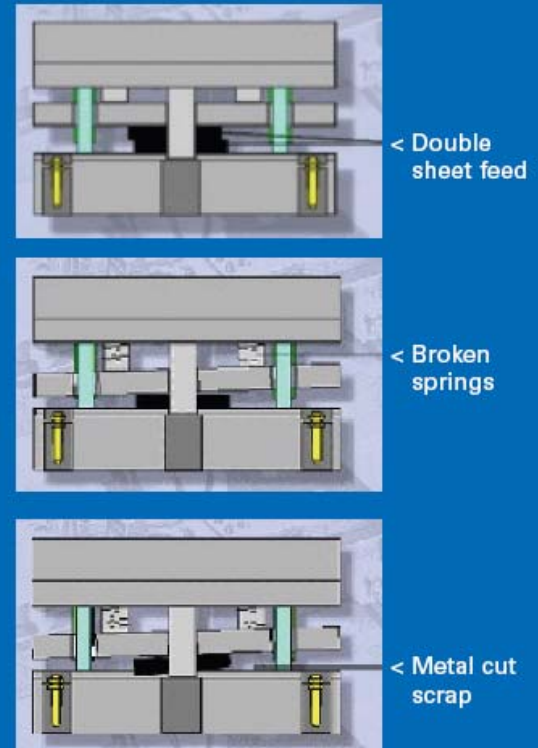
Examples include the following:

- IWFM 20U9509/KS35AP, rectangular distance measuring sensor
- IWRM 06 Series, 6.5 mm diameter distance measuring sensor
- IWRM 08 Series, 8 mm threaded distance measuring sensor
- IWRM 12 Series, 12 mm threaded distance measuring sensor

## Supporting Documentation

- Baumer Sensor Solutions Catalog, pages 38, 39, 41, and 55
- Baumer Website: [IWFM 20U9509/KS35AP](#), [IWRM 06 Series](#), [IWRM 08 Series](#), [IWRM 12 Series](#)

The sensor must be able to recognize the following situations:



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