



Issue 1 Volume 3

## Application Solutions - Automotive Industry

### ***Flange Flaw Detection With Smart Measurement Sensor***

***Challenge:*** A molded plastic steering column component must be 100% inspected before acceptance for assembly. Sometimes the mold fails to fill completely or a portion of the internal flange tears when the mold releases. The flange provides critical sealing and noise dampening in the finished steering column.

***Solution:*** The ZFV sensor inspects each molded plastic component for irregularities in a flange area by using pattern matching. The sensor rejects any parts that contain flaws. The easy-to-teach sensor can store several model images to shorten changeover time between production runs. Also, an E3C through-beam sensor triggers the inspection. It's miniature sensing heads and separate amplifier make it ideal for space-confined inspection sites.

