

Absolute, Non-Contact Position Sensors

Intrinsically Safe Sensor Analogue

Measuring length 50 - 2500 mm

DISCONTINUED



BVS 09 ATEX E 105 X

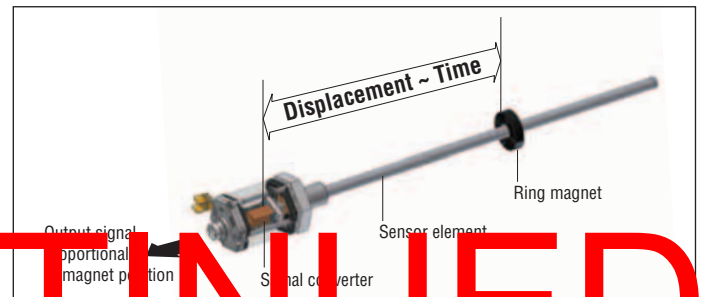


II 1/2G Ex ib IIB/IIC T4 ; II 2D Ex ibD T135°C
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DISCONTINUED

- Intrinsically Safe
- Linear and Absolute Measurement
- Non-Contact Sensing with Highest Durability
- Direct Analogue Output
- Additional Temperature Output
- No Wear

DISCONTINUED



Magnetostrictive

Form factor

The absolute **Temposonics®** linear position sensors are based on the MTS developed **magnetostrictive measurement principle**. That combines various magneto-mechanical effects and uses the physical high precise speed-measurement of an ultrasonic wave (torsion pulse in its sensor element) for position detecting. Sensor integrated signal processing transforms the measurements directly into market standard outputs. The contactless principle - an external movable magnet marks the position - eliminates the wear, noise and erroneous signal problems and guarantees the best durability without any recalibration.

The robust sensor for continuous operation under harshest industrial conditions is completely modular in mechanic and electronic design.

- A profile or rod-shaped sensor housing protects the sensing element in which gives rise to the measurement signal.
- The sensor head accommodates the modular electronic interface with active signal conditioning. Double encapsulation ensures high operating safety and optimum EMC protection.
- The position transmitter, a permanent magnet - fixed at the mobile machine part - drives non-contact over the sensor's stroke and starts measuring through the housing wall.

