

ELTOMATIC

Complete solutions between meter and computer

Magnetic Encoder



ME01-05 magnetic encoder



ME01-02 magnetic encoder

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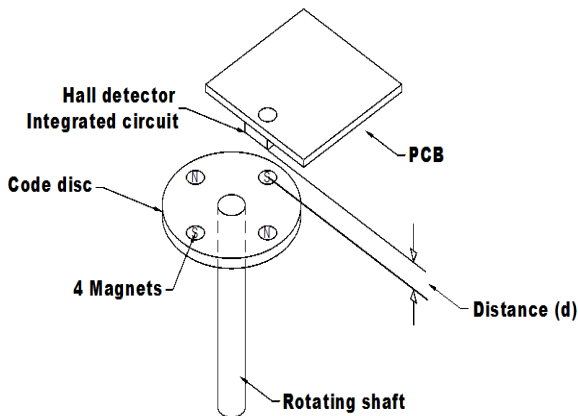
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Working principles for magnetic encoders

Rotational detection is made with a magnetic code disk and a Hall Effect Integrated Circuit.

A magnetic North pole enables the pulse from the hall IC and a magnetic South Pole disables the pulse again i.e. one pulse is generated by two magnets.

As there is no rotating shaft in these magnetic encoders they are completely watertight.



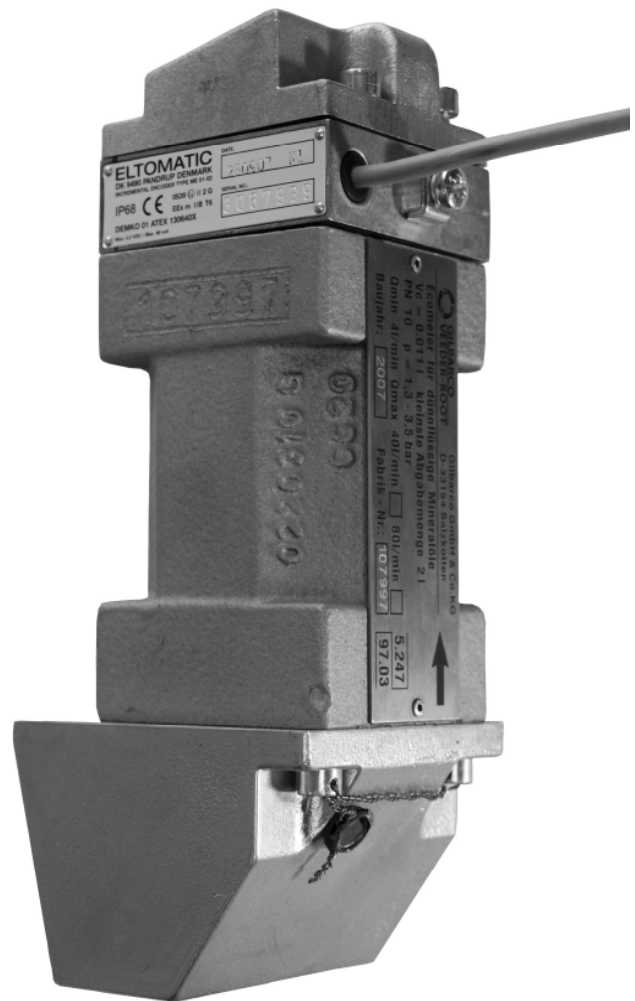
Distance between the code disk and the detecting devices (d) needs to be controlled very closely. This detection principle is useful when a very compact and economical solution is needed. Eltomatic has developed this type of encoders completely integrated with customers flowmeters.

Characteristics:

- low number of pulses per revolution (depending on code disk diameter)
- distance between magnet and Hall element needs to be small and well controlled
- magnetic code disk can be placed outside of the encoder housing
- encoder can easily be integrated with the flowmeter
- economical solution
- compact solution

Eltomatic has developed several incremental encoders for customers. These encoders are completely integrated with the flowmeter, where the magnetic disk is placed outside the encoder housing. The encoder can either be built into the flowmeter housing or it can be mounted at the end of the flowmeter. Development of this kind of integrated encoders must be done in close cooperation with the developers of the flowmeters.

NB. Some of these encoders have been developed exclusively for one customer and are not available for sale to other customers.



ME01-02 magnetic encoder mounted on top of a twin-screw flowmeter



ME01-03 magnetic encoder