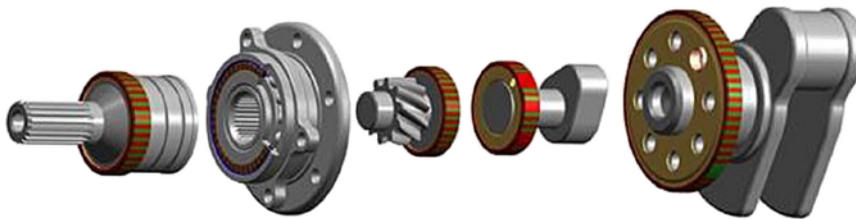


# MULTIPOLE ENCODER



**Freudenberg Sealing Technologies** manufactures multipole encoders that are used in wheel bearings, drive shafts, gear shafts, crankshafts and camshafts of internal combustion engines, axial piston engines, wind turbines and other application areas. Due to its high accuracy, narrow design and robustness, the multipole encode delivers key advantages over mechanical transmitter wheels in the radial and axial signal detection. Also possible, is the detection of rotation angle positions. Whether custom made or standard (40 mm to 200 mm), Freudenberg's multipole encoders have impressed automotive and general industry customers worldwide.



## VALUES TO THE CUSTOMER

- Durable
- High accuracy
- Serves for the detection of rotation angle velocity, rotation speed deformity and rotation angle positions of shafts
- Weight reduction
- Miniaturization (downsizing)
- Accommodates compact installation space

## FEATURES AND BENEFITS

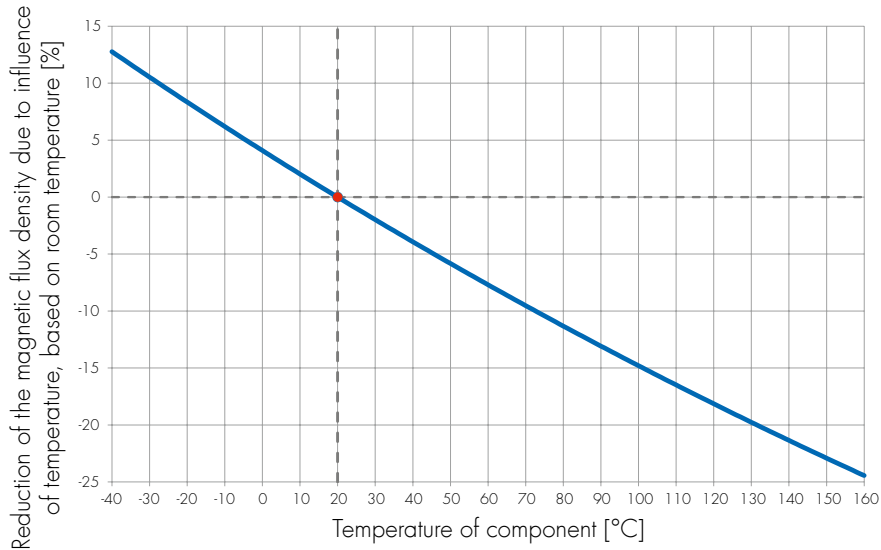
- Radial or axial signal detection
- Compounds tailored to the specific application, consisting of elastomer and magnetically hard filler material (rubber magnet part consisting of alternating magnetized segments)
- Standard dimensions: 40 mm to 200 mm
- Part of a system consisting of multipole encoder, magnetic field sensor and evaluation unit
- 100% signal measurement of the defined signal parameters
- Support in sensor issues
- Magnet in the sensor is eliminated

# MULTIPOLE ENCODER

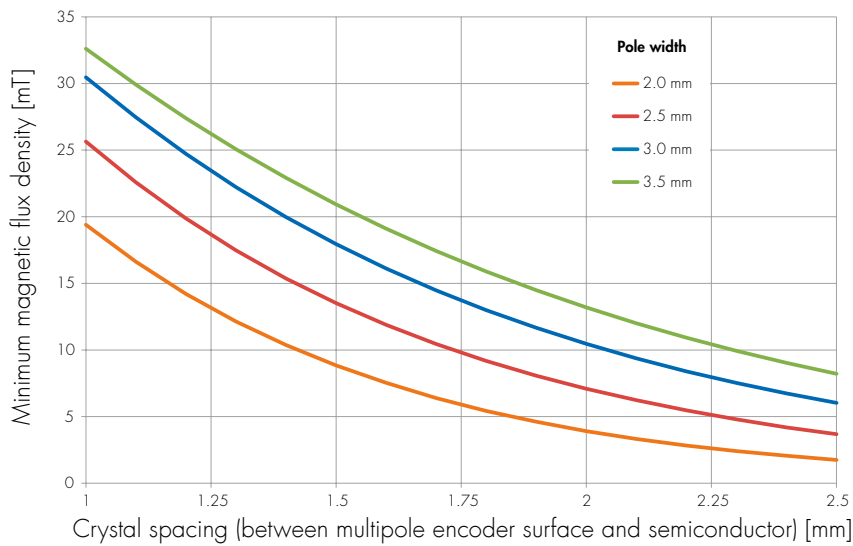
## FEATURES AND BENEFITS



**Reduction of the magnetic flux density due to temperature influence**



**Influence of pole width and crystal spacing on the magnetic flux density**



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