

Systems and encoders WDG



Silent Move

The belt system, proven to be the quietest in the world, offering outstanding benefits:

- Smooth running
- Fast
- Quiet
- Circumferential or guided belt system

The rugged WDG encoders measure with their usual precision.



Add-on kit frequency inverter feedback

- Complete retrofit set
- Quickly and reliably fitted with the aid of the accessories
- Cost-effective modernisation solution
- TTL, HTL output
- Threads: M8, M10, M12, M14, M16 und M20
- 15 m ready made cable for different frequency inverters



Top class Motorfeedback WDG

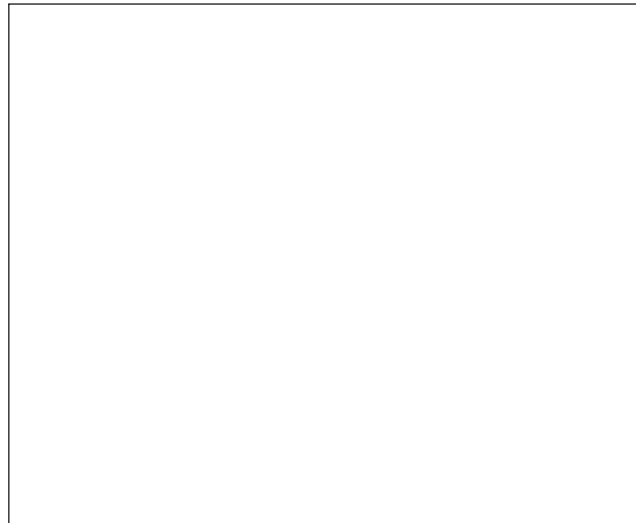
- Highest precision in highly dynamic movement
- Compact design: Ø 58 mm
- BISS-C, SSI with 19 bit singleturn and up to 2.048 sin/cos
- Incremental up to 25 000 PPR
- Electronic ID label



Large accessories program

- Torque supports and mounting accessories
- Shaft adapters and adapter sleeves
- Helical-, spring disc-, bellows-, jointed-, slit- and double loop couplings
- Female cable connectors
- Ready made cable
- Spring lever for length determination
- Measuring wheels for all surface areas

For further information please contact:



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WACHENDORFF
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Systems and encoders WDG



Precision automation with encoders and systems

- Absolute encoders WDGA with EnDra® and QuattroMag®
- Incremental encoders WDGI
- Maximum permissible loads
- 24-hour express production
- 5 years warranty
- Own development and production “Made in Germany”



Encoders WDG158 series:

Up to 25,000 PPR!

- 10000, 12500, 20000 or 25000 PPR
- High shaft load up to 500 N radial, 500 N axial
- Full connection protection with 10 VDC to 30 VDC
- Optional: -40 °C to +85 °C
- Connections: shielded cable or connector, axial or radial



Magnetic encoder WDG24C up to 1024 ppr

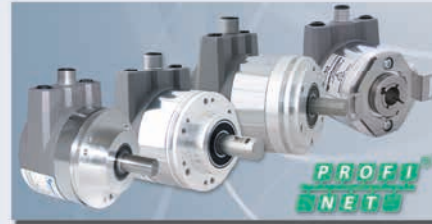
- Very compact construction for use in harsh conditions
- High shaft load: 80 N radial, 50 N axial
- Available ppr: 1 up to 128 ppr continuous, 256, 512, 1024 ppr
- Power supply: 4.75 VDC up to 5.5 VDC, 5 VDC up to 30 VDC
- Operating temperature: -40 °C up to +80 °C
- High protection rating IP67 all around

Absolute encoders WDGA with EnDra® and QuattroMag®



Absolute encoders WDGA

- EnDra®-Technology: No gears and no battery maintenance-free, free of wear, environmentally friendly, energy efficient
- QuattroMag®-Technology: Accuracy of $\pm 0.0878^\circ$ (12 bits) and a dynamic of 50 μ s
- Single-/Multiturn (16 bit / 43 bit)
- 2-colour-LED as indicator for operating condition and error message



PROFINET Absolute Encoder WDGA

- 58F – World smallest PROFINET Encoder
- IRT – 250 μ s cycle time for Motion Control
- MRPD – High availability with bumpless media redundancy
- Integrated Webserver – Diagnostics and Updates
- Programmable resolution



EtherCAT Absolute Encoder WDGA

- 50 μ s cycle time
- CoE (CiA 406 encoder profil implemented)
- FoE (Firmware update over EtherCAT)
- EoE (Webserver – Diagnostics and Updates)
- Programmable resolution



Corrosion resistant encoder

Resistance to salt mist (IEC 60068-2-11) succeeded.

- Specifically for applications in offshore and harbor
- Incremental and absolute CANopen, SSI, RS485, SAE J1939
- High protection rating: IP68 all around or IP67 all around + IP69k
- Extremely robust



Robust length measurement system

- Spring lever with adjustable pretensioning force: 0 – 30 N in 5 N steps
- Lock function
- Incremental encoder WDG1 58Z
- Measuring wheels for encoder, for different surfaces
- Resolutions: 1 mm, 0.1 mm, 0.04 mm or 0.008 mm per count, other resolutions available



Draw-wire systems SZG

- Exceptionally rugged length sensor
- Measuring range: 1.25 m bis 42.5 m
- Output: incremental or absolute
- Quick installation
- High-precision mechanics with high linearity