

# WACHENDORFF

The Encoder Experts



## Incremental Encoders WDGP Ø 36 mm and up to 16.384 ppr

DEVELOPED AND  
MADE IN GERMANY  
5 YEARS WARRANTY

[wachendorff-automation.com/wdgp](http://wachendorff-automation.com/wdgp)

Any number of pulses available up to 16,384 ppr

Protection class IP67, at the shaft input IP65

High output frequency up to 1 MHz

Reverse polarity and short circuit  
protection at 4.75 VDC to 32 VDC

Zero pulse can be set



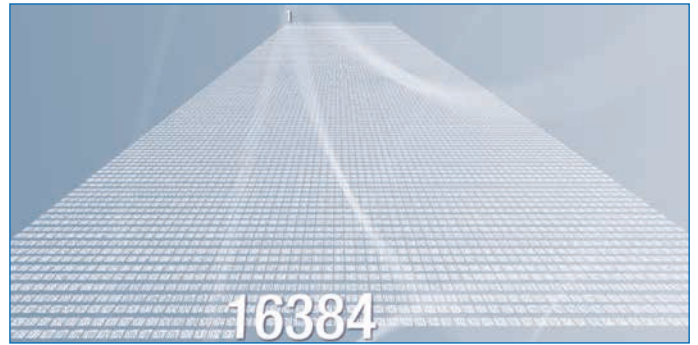
1  
16,384



**Industrie ROBUST**

# Incremental Encoder WDG

## 36 mm diameter and up to 16,384 ppr



The new series of WDG incremental encoders offer the customer a significantly high resolution of up to 16,384 ppr in a very compact design from 36 mm. This means that highly precise measurements can be realised in the smallest installation space. The series can be supplied with any number of pulses from 1 to 16,384 ppr and a zero pulse. The zero pulse can be freely set. The electronics delivers in HTL or TTL with a frequency of up to 1 MHz to the ABN signals also the inverted ones.

The robust stainless steel housing and the well chosen design give the encoder the high protection class IP67 with a protection class of IP65 at the shaft input. IP67 can also be realised at the shaft input via a sealing ring as an option. The all-voltage range from 4.75 VDC to 32 VDC leaves nothing to be desired and is protected against polarity reversal and short-circuits.

Depending on the product type, up to 220 N shaft load is possible. The series consists of shaft encoders and hollow shaft encoders with typical diameters of 36 mm and 58 mm with the mounting options commonly used in the industry.

The WDG incremental encoder is based on a patented magnetic sensor technology with highest accuracy and resolution.

The wide operating temperature range of -40 °C to +85 °C and the high resistance to other environmental stresses, such as vibration and shock, show that they have also been developed for use in off-road vehicles.

The units are supplied with all standard connectors or with a typically 2 m cable and a radial or axial outlet and are optimally adapted to the mounting conditions.

**In summary:** Our customers receive a very robust and compact incremental encoder with a high resolution.

#### Typical applications:

wind turbines, storage and retrieval machines, automated guided vehicles, food, beverage and packaging machines, marking, labelling and printing.



**Any Questions?** Just call us at +49 (0) 67 22 / 99 65 414, send us an E-Mail to [support-wa@wachendorff.de](mailto:support-wa@wachendorff.de) or call your local distributor: [www.wachendorff-automation.com/distri](http://www.wachendorff-automation.com/distri)

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2024

Your distributor: