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The Encoder Experts



PROFIBUS Absolute Encoder WDGA with EnDra® Technology

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Compact design
Very high shaft loading
Flexible connectivity
Class 3 and 4 switchable
Programmable resolution





PROFIBUS Absolute Encoder WDGA

... with EnDra[®]-Technology

With an overall depth of just 60.7 mm, the WDGA series singleturn and multiturn encoder are the most compact PROFIBUS encoder with bus cover on the market. In this respect they support the progressive miniaturisation in the field of mechanical engineering and are also maintenance and wear-free. It's all thanks to EnDra® technology!

The bus cover is designed for cable and connector solutions. There are also models with housing connectors. In this way, the optimum connection method can be put in place for any application. The port can be quickly and simply configured for classes 1 to 4 using the GSD file.

Two LEDs for displaying the operating mode and bus monitoring make the start-up easier.



| | WDGA 58A bus cover | WDGA 58A connector | WDGA 58B bus cover | WDGA 58B connector | WDGA 58D bus cover | WDGA 58D connector | WDGA 58E bus cover | WDGA 58E connector |
|-----------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------|-----------------------|--------------------------------|---------------------|------------------------------|-----------------------|
| EnDra® Technology | | (e | Ta c | (B) C | | Te | | |
| Mechanical Data | | | | | | | | |
| Flange type | synchro flange clamping flange | | | | | hollow bore (blind) | | |
| Shaft Ø | 6 mm, 8 mm, 10 mm, 3/8" 12 mm | | | | | 6, 8, 10, 12, 14 mm | | |
| Permissible shaft loading | radial: 125 N (Ø 6 mm, 8 mm) / 220 N (Ø 10 mm, 3/8"); axial: 120 N | | | | radial: 400 N; axial: 400 N | | radial: 80 N; axial: 50 N | |
| Electrical Data | | | | | | | | |
| Supply voltage | 10 VDC up to 32 VDC, max. 100 mA (24 VDC) | | | | | | | |
| Power consumption | max. 2,5 W | | | | | | | |
| Resolution | Singleturn: max. 14 Bit, Multiturn: max. 39 Bit | | | | | | | |
| Accuracy | Accuracy: < ± 0,35°; Repeat accuracy: < ± 0,20° | | | | | | | |
| Connection Options | | | | | | | | |
| Bus cover, PG cable glands | • | 0 | • | 0 | • | 0 | • | 0 |
| Bus cover, 3x M12-connector | • | 0 | • | 0 | • | 0 | • | 0 |
| Connector, 2x M12, 1x M8 | 0 | • | 0 | • | 0 | • | 0 | • |
| Interface | | | | | | | | |
| Description | PROFIBUS-DPV0/V2; switchable; Class 3, 4; RS485, galvanic isolated; max. 12 MBaud | | | | | | | |
| Parameter | steps per rotation, counts of revoltution, preset, scale, counting direction | | | | | | | |
| Status | 2 colour-duo LEDs as indicator for operating condition and bus status | | | | | | | |
| Environmental data | | | | | | | | |
| Operating temperature | -40 °C up to + 85 °C | | | | | | | |
| Storage temperature | -40 °C up to + 100 °C | | | | | | | |
| Protection class (EN 60529) | IP67, shaft sealed to IP65 | | | | | | | |
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Any Questions? Just call us at +49 (0) 67 22 / 99 65 414, send us an E-Mail to support-wa@wachendorff.de or call your local distributor: www.wachendorff-automation.com/distri

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