

PROFIBUS Absolute Encoder WDGA with EnDra®-Technology

- Compact design
- Very high shaft loading
- Flexible connectivity
- Class 1, 2, 3 and 4 switchable
- Programmable resolution



PROFI[®]
BUS



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.



Buscover with terminal block



WDGA 58A <i>bus cover</i>	WDGA 58A <i>connector</i>	WDGA 58B <i>bus cover</i>	WDGA 58B <i>connector</i>	WDGA 58D <i>bus cover</i>	WDGA 58D <i>connector</i>	WDGA 58E <i>bus cover</i>	WDGA 58E <i>connector</i>

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. 40 Bit							
Accuracy	Accuracy: < ± 0,35°; Repeat accuracy: < ± 0,20°							
Connection Options								
Bus cover, PG cable glands	●	○	●	○	●	○	●	○
Bus cover, 3x M12-connector	●	○	●	○	●	○	●	○
Connector, 2x M12, 1x M8	○	●	○	●	○	●	○	●
SUB-D, 9-pin	○	●	○	●	○	●	○	●
Interface								
Description	PROFIBUS-DPVO/V2; switchable; Class 1, 2, 3, 4; RS485, galvanic isolated; max. 12 MBaud							
Parameter	steps per rotation, counts of revolution, 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 + 80 °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) 6722/9965-10, send us an E-Mail to wdg@wachendorff.de or call your local distributor: www.wachendorff-automation.com/distri



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