Absolute electrically isolated encoders					
CANOPER CANOPER LIFT SAE. J1939			all C		
Туре	WDGA 58A	WDGA 58B	WDGA 58D	WDGA 58E	
Interfaces	CANopen, CANopen Lift, CAN SAE J1939,				
Single-turn Resolution (steps/revolution) Accuracy Repeat accuracy	up to 16 bit < ± 0.35° < ± 0.20°				
Multi-turn number of revolutions	up to 43 bit				
Code	Binary or Gray				
Flange	Synchro flange Clamping flange Hollow sha			Hollow shaft	
Material housing	Steel case chrome-plated, magnetic shielding				
Dimensions housing	Ø 58 mm, Ø 58 L 63.8 mm L 57.8		3 mm, 8 mm	Ø 58 mm, L 66.3 mm	
Material shaft	Stainless steel				
Dimensions shaft	Ø 6 mm, L: 12 mm; Ø 8 mm, L: 19 mm; Ø 10 mm, Ø 3/8", L: 20 mm		Ø 12 mm, L: 25 mm	Ø 12 mm or 14 mm; 6, 6.35 (1/4"), 7, 8, 9.525 (3/8"), 10 mm with adapter sleeve	
Permissible shaft load max.	125 N radial (Ø 6 mm, Ø 8 mm), 120 N axial 220 N radial (Ø 10 mm, Ø 3/8"), 120 N axial		400 N radial, 400 N axial	80 N radial, 50 N axial	
Operating speed	max. 8,000 min ⁻¹			max. 6,000 min ⁻¹	
Power supply	10 VDC to 32 VDC				
Protection class	IP67, shaft sealed to IP65				
Operating temperature	-40 °C to +85 °C				
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PROFIBUS absolute encoders					
PROFII®					
Туре	WDGA 58A	WDGA 58B	WDGA 58D	WDGA 58E	
Interfaces		PROFIBUS			
Single-turn Resolution (steps/revolution) Accuracy Repeat accuracy Multi-turn number of	up to 14 bit < ± 0.35° < ± 0.20° up to 39 bit				
revolutions					
Code	Binary				
Flange	System a manage and a second an			Hollow shaft	
Material housing	Steel case chrome-plated, magnetic shielding			1	
Dimensions housing	Ø 58 mm, L 63.8 mm	,		Ø 58 mm, L 66.3 mm	
Material shaft	Stainless steel				
Dimensions shaft	Ø 6 mm, L: 12 mm; Ø 8 mm, L: 19 mm; Ø 10 mm, Ø 3/8", L: 20 mm		Ø 12 mm, L: 25 mm	Ø 12 mm, 14 mm, 15 mm; Ø 6, 6.35 (1/4"), 7, 8, 9.525 (3/8"), 10 mm with adapter sleeve	
Permissible shaft load max.	125 N radial (Ø 6 mm, Ø 8 mm), 120 N axial 220 N radial (Ø 10 mm, Ø 3/8"), 120 N axial		400 N radial, 400 N axial	80 N radial, 50 N axial	
Operating speed	max. 8,000 min ⁻¹ max. 6,000 min ⁻¹			max. 6,000 min ⁻¹	
Power supply	10 VDC to 32 VDC				
Electrical connection	Bus cover: connection via terminal strip or 3x M12 Plug connections: 2x M12 and 1x M8 or D-SUB female connector, 9-pin (axial or radial)				
Protection class	IP67, shaft sealed to IP65				
Operating temperature	-40 °C to +85 °C				
wachendorff-automation.com	/profibus				

Absolute industrial Ethernet encoders					
Ether CAT.				(G)	
Туре	WDGA 58A	WDGA 58B	WDGA 58D	WDGA 58E	WDGA 58F
Interfaces		PROFINET-IO, EtherCAT, EtherNet/IP, Universal IE			
Single-turn Resolution (steps/revolution) Accuracy Repeat accuracy Multi-turn number of	up to 16 bit ± 0,0878° (≤ 12 bit) ± 0,0878° (≤ 12 bit) up to 43 bit				
revolutions					
Code	Binary				
Flange	Synchro flange Clamping flange Hollow shaft Clamping f		Clamping flange		
Material housing	Steel case chrome-plated, magnetic shielding				
Dimensions housing	Ø 58 mm, L 63.8 mm			Ø 58 mm, L 66.3 mm	Ø 58 mm, L 46.5 mm
Material shaft	Stainless steel				
Dimensions shaft	Ø 6 mm, L: 12 mm; Ø 8 mm, L: 19 mm; Ø 10 mm, Ø 3/8", L: 20 mm		Ø 12 mm, L: 25 mm	15 mm;	Ø 6 mm, L: 12 mm, Ø 8 mm, L: 19 mm, Ø 10 mm, L: 20 mm, Ø 3/8", L: 19 mm
Permissible shaft load max.	125 N radial (Ø 6 mm, Ø 8 mm), 120 N axial 220 N radial (Ø 10 mm, Ø 3/8"), 120 N axial		400 N radial, 400 N axial	80 N radial, 50 N axial	60 N radial, 50 N axial
Operating speed	max. 8,000 min ⁻¹		max. 6,000 min ⁻¹	max. 8,000 min ⁻¹	
Power supply	10 VDC to 32 VDC				
Electrical connection	Bus cover: connection via 3x M12 connector				
Protection class	IP65, IP67, shaft sealed to IP65			IP65 outright	IP65, IP67, shaft sealed to IP65
Operating temperature	-40 °C to +85 °C				
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- Highest precision during highly dynamic movements
- Compact construction: 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

Highest precision during highly dynamic movements

The WDGF was developed for the most demanding applications. It operates reliably and supplies high-precision signals for a rapid regulation of synchronous motors even under extreme environmental conditions. The optical principle guarantees rapid and precise transmission and the robust design ensures high operational stability.

Motor feedback WDGF

	1			
WDGF motor feedback encoder				
Туре	58M/R			
Interface for single-turn	SSI, BISS-C			
Frequency SSI/ BISS-C	4/10 MHz			
Functions	Direction reversal, preset, status LED			
Resolution single-turn absolute	max. 19 bit			
Resolution sin/cos	2,048 PPR, optional 512 PPR, 1,024 PPR			
Output circuit	sin/cos, 1 Vpp, 120 Ohm			
Output channels	AB			
Limit frequency (-3 dB)	400 kHz			
Resolution incremental	up to 25,000 PPR			
Dimensions housing	Ø 58 mm, L 40 mm			
Dimensions shaft	cone 1/10, Ø 9.25 mm, L 16.5 mm			
Operating speed	max. 12,000 min ⁻¹			
Permissible shaft load	max. 80 N radial, max. 60 N axial			
Power supply	4.75 VDC to 5.5 VDC 3.5 VDC to 30 VDC			
Operating temperature	-40 °C to +115 °C			
only incremental:	-20 °C to +85 °C			
Protection class	IP67 outright, shaft sealed to IP65			
Connection type	Tangential cable output, 2 m			
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