

Online Data Sheet

Dennen

Encoder WDGI 58B

www.wachendorff-automation.com/wdgi58b

Wachendorff Automation

- ... systems and encoders
- · Complete systems
- Industrial rugged encoders to suit your application
- Standard range and customer versions
- Maximum permissible loads
- 48-hour express production
- Made in Germany
- Worldwide distributor network

Industrie ROBUST



Encoder WDGI 58B





- Rugged industrial standard encoder
- Housing cap die cast aluminum, • with particularly eco-friendly powder coating
- Up to 25000 PPR by use of high grad electronics
- Protection to IP67, shaft sealed to IP65
- Maximum mechanical and electrical safety
- Full connection protection with 10 VDC up to 30 VDC
- High output frequency 600 kHz/2 MHz
- Optional: •

-40 °C up to +85 °C, Protection to IP67 all around, Pressure equalising membrane

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Signal level H>	H > Vcc - 10 % Vcc
Signal level L<	L < 2.5 VDC
Output frequency	max. 200 kHz
Circuit protection	inverse-polarity protection only
Light reserve warning	no

General Data	
Weight	approx. 250 g
Connections	cable or connector outlet
Protection rating (EN 60529)	Housing: IP65, IP67; shaft sealed: IP65
Operating temperature	Connector: -40 °C up to +85 °C, cable: -20 °C up to +80 °C, (Option ACA: -40 °C up to +85 °C) 1 Vpp: -10 °C up to +70 °C
Storage temperature	Connector: -30 °C up to +85 °C, cable: -30 °C up to +80 °C, option ACA: -40 °C up to +85 °C

More Information

General technical data and safety instructions http://www.wachendorff-automation.com/gtd Options http://www.wachendorff-automation.com/acc

Resolution

Max. pulses per revolution PPR 200 ppr

Mechanical Data

Housing	
Flange	clamping flange
Flange material	aluminum
Housing cap	die cast aluminum, powder coated
Housing	Ø 58 mm
Cam mounting	pitch 69 mm

Shaft(s)

Shaft material	stainless steel
Starting torque	approx. 1 Ncm at ambient temperature

Ø 10 mm	
L: 20 mm	
220 N	
120 N	
	L: 20 mm 220 N

Bearings

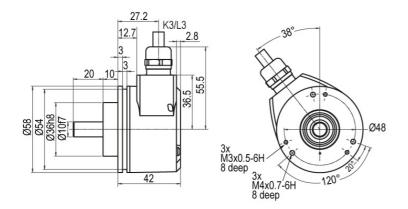
Bearings type	2 precision ball bearings
Nominale service life	1 x 10'9 revs. at 100 % rated shaft load 1 x 10'10 revs. at 40 % rated shaft load 1 x 10'11 revs. at 20 % rated shaft load
Max. operating speed	8000 rpm

Machinery Directive: basic data safety integrity level							
MTTF _d	200 a						
Mission time (TM)	25 a						
Nominale service life (L10h)	1 x 10'11 revs. at 20 % rated shaft load and 8000 rpm						
Diagnostic coverage (DC)	0 %						

als



WDGI 58B: Cable connection K3, L3, radial, with 2 m cable



Description

K3 radial, shield not connected

Assignments						
	K3					
Circuit	R30					
GND	WH					
(+) Vcc	BN					
Α	GN					
В	YE					
Ν	GY					
Light reserve warning	-					
A inv.	RD					
B inv.	BK, (BU at ACA)					
N inv.	VT					
Shield	flex					

ABN inv. poss.



Options

Low-friction bearings		Order key
The encoder WDGI 58B is also available as a particularly smooth- running low-friction encoder. The starting torque is thereby changed to protection class at the shaft input to IP50.	0.5 Ncm and the	AAC
Shaft with flat		Order key
The encoder WDGI 58B can be supplied with a shaft with flat.		AAF

IP67 Shafts sealed to IP67 (not for 1 Vpp Sin/Cos)	Order key
The encoder WDGI 58B can be supplied in a full IP67 version.	AAO
Max. RPM: 3500 rpm	
Permitted Shaft-Loading, axial: 100 N	
Permitted Shaft-Loading, radial: 110 N	
Max. PPR: 2500 ppr	
Starting-torque: approx. 4 Ncm at ambient temperature	
Pressure equalising membrane	Order key
The WDGI 58B shaft encoder is also optionally available with a pressure equalising membrane. This prevents water from penetrating into the encoder housing in the case of high air humidity. The IP67 protection level, temperature range and salt spray resistance are maintained. Resistant to chemicals and solvents in accordance with DIN EN ISO 2812-1.	ACR
Cable length	Order key
The encoder WDGI 58B can be supplied with more than 2 m cable. The maximum cable length depends on the supply voltage and the frequency; see www.wachendorff-automation.com/atd Please extend the standard order code with a three figure number, specifying the cable length in decimetres. Example: 5 m cable = 050	XXX = Decimeter



xample Order No.	Туре										Your encoder				
WDGI 58B	WDGI 58B									WDGI 58B					
													1		
	Shaft														
10	10									10					
	•	revolution PP	R:												
200	200												200		
	01			_			_	_	_	_	_	_			
	Channels:														
ABN	ABN												ABN		
	Output circ	uit													
		Power supply	Outpu	ıt circu				Lia	ht rese	nvo l	Orde	r kov			
R30	PPR	VDC	Outpt		inc.				varning		orue	кеу	R30		
100	up to 2500	5 - 30	HTL ir	verted					-		R	30			
			•							·			-		
	Electrical c	onnections													
	Description	I						ABN	l inv. po	oss. C	rder k	ey			
K3	Cable: length (2 m standard, WDG 58T: 1 m)											К3			
	radial, shield not connected							•		K	3				
													1		
	Options														
	Shaft with flat AAF IP67 AAC Pressure equalising membrane ACF							-				_			
								AAC				_			
												_			
								_			_				
										_					
		Cable length Cable lenght Cable length Empty						-							
										Linp	• 7				
					· · · · · ·			1	1		1				
cample Order No.=	WDGI 58B	10 200 AE	N R30	K3		WDGI 58B	10	200	ABN	R30	K3		Your encoder		





For further information please contact our local distributor. Here you find a list of our distributors worldwide. https://www.wachendorff-automation.com/



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