

Online Data Sheet

Dennen

Encoder WDGI 58A

www.wachendorff-automation.com/wdgi58a

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 58A



Resolution



- Robust construction for industrial use
- 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
- High electrical immunity
- Full connection protection with 10 VDC up to 30 VDC
- High output frequency 600 kHz/2 MHz
- Optional: -40 °C up to +85 °C, Pressure equalising membrane

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Max. pulses per revolution PPR	100 ppr
Mechanical Data	
Housing	
Flange	synchro 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. 0.5 Ncm at ambient temperature
Shaft	Ø 6 mm
Shaft length	L: 12 mm
Max. Permissible shaft loading radial	125 N
Max. Permissible shaft loading axial	70 N
Bearings	
Bearings type	2 precision ball bearings
Nominale service life	3 x 10'8 revs. at 100 % rated shaft load

Nominale service life	3 x 10'8 revs. at 100 % rated shaft load 5 x 10'9 revs. at 40 % rated shaft load 4 x 10'10 revs. at 20 % rated shaft load
Max. operating speed	10000 rpm

Machinery Directive: basic data safety integrity level		
MTTF _d	200 a	
Mission time (TM)	25 a	
Nominale service life (L10h)	4 x 10'10 revs. at 20 % rated shaft load and 10000 rpm	
Diagnostic coverage (DC)	0 %	

5 - 30 VDC
typ. 70 mA
square-wave
HTL inverted
AB, ABN, and inverted signals
push-pull
max. 40 mA / channel
at 20 mA

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. 230 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

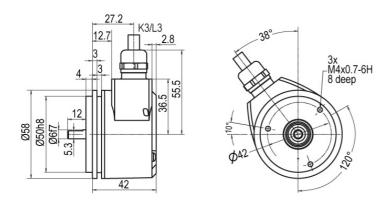
More Information

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

Options http://www.wachendorff-automation.com/acc



WDGI 58A: 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.

Low-friction bearings	Order key
The encoder WDGI 58A is also available as a particularly smooth- running low-friction encoder. The starting torque is thereby changed to 0.25 Ncm and the protection class at the shaft input to IP50.	AAC
Pressure equalising membrane	Order key
The WDGI 58A 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 58A can be supplied with more than 2 m cable. The maximum cable	XXX = Decimeter

Options



Example Order No. Type Your encoder WDGI 58A WDGI 58A WDGI 58A Shaft 06 06 06 **Pulses per revolution PPR:** 100 100 100 Channels: ABN ABN ABN Output circuit Resolution Power supply **Output circuit** Light reserve Order key PPR VDC warning R30 R30 up to 2500 5 - 30 HTL inverted R30 -**Electrical connections** ABN inv. poss. Order key Description K3 Cable: length (2 m standard, WDG 58T: 1 m) K3 K3 radial, shield not connected • Options Order key Description Low-friction bearings AAC Pressure equalising membrane ACR Cable length Cable lenght Without option Empty Example Order No.= WDGI 58A WDGI 58A 06 100 ABN R30 K3 06 100 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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