

Encoder WDG 58A



- Synchro flange
 - Robust construction for industrial use
 - Protection to IP67, shaft sealed to IP65
 - High electrical immunity
 - Full connection protection with HTL encoders
 - With control output
 - Optional: -40°C ... +80°C
- www.wachendorff.de/wdg58a-engl

Application field

Extension of electric motors, Machine tools, Weighing machines, Transport technology, Printing machines, Motion control, Textile machines, Mounting technology, Diecasting machines, Testing machines, Elevators, Doors and Gates, Industrial robots.

Available PPR up to 5000

Mechanical Data

Housing

- Synchro flange: Aluminium
- Housing: Aluminium, powder coated
- Cam mounting: pitch Ø 69 mm

Shaft

- Material: stainless steel
- Load on shaft end: max. 125 N radial
max. 70 N axial
- Starting torque: approx. 0,5 Ncm at ambient temperature

Bearings

- Type: 2 precision ball bearings
- Service life: 3 x 10⁸ revs. at 100% of full rated shaft load
5 x 10⁹ revs. at 40%
4 x 10¹⁰ revs. at 20%

Operating speed: 10.000 rpm

Weight: approx. 230 g

Connections: Shielded cable or connector

Protection rating: IP67, shaft sealed to IP65
(EN 60529)

Operating temperature: -20... +80°C, 1Vss: -10... +70°C

Storage temperature: -30... +80°C

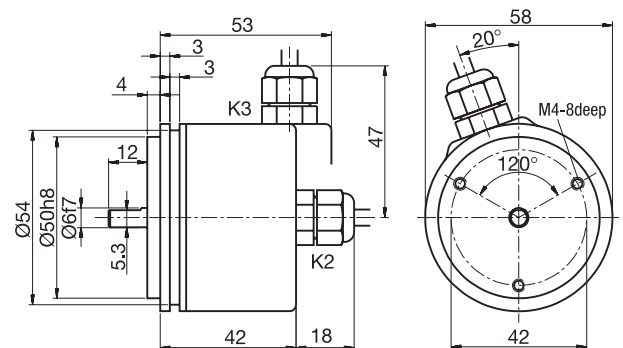
Electrical Data

Power supply	Output circuit	Key	Output circuit*	Key
10-30 VDC	HTL	G24	HTL, inv.	I24
5 VDC	TTL	G05	RS422, TTL comp.	I05
5-30 VDC	HTL	H30	HTL, inv.	R30
10-30 VDC	-	-	RS422, TTL comp.	245
5 VDC	-	-	1 Vss Sin./Cos.	SIN

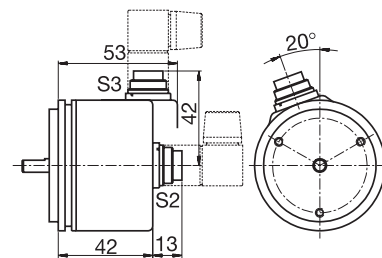
*Only for cable or connector:

K2, L2, K3, L3, S4, S5, SB8, SC8, SB12, SC12

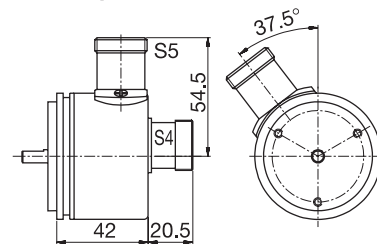
Cable connection K2, K3

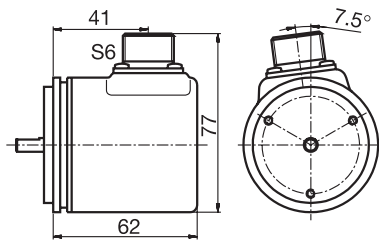
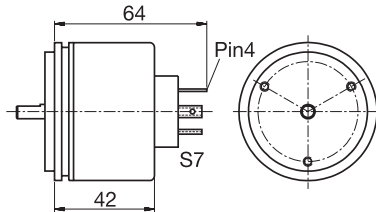
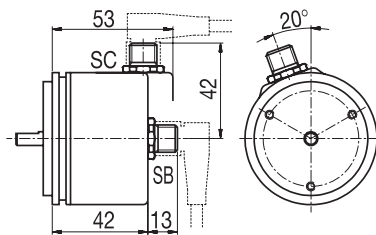


Connector S2, S3, 7-pin



Connector S4, S5, 12-pin



MIL-connector S6, 6-pin

Valve-connector S7, 4-pin

Sensor-connector (M12x1) SB, SC, 4-, 5-, 8-, 12-pin


All dimensional specifications in mm.

 Further technical information on www.wachendorff.de/gtd

 Matching accessories on www.wachendorff.de/acs
Ordering information:
Output circuit:

 G24 = 10-30 VDC, HTL
 G05 = 5 VDC, TTL
 H30 = 5-30 VDC, HTL

Output circuit inv.:

 I24 = 10-30 VDC, HTL
 I05 = 5 VDC, RS422 TTL comp.
 R30 = 5-30 VDC, HTL
 245 = 10-30 VDC, RS422 TTL comp.
 SIN = 5 V, 1 Vss Sinus (only to 1024 and 2048 PPR)

Inverted only for cable or connector:

K2, L2, K3, L3, S4, S5, SB8, SC8, SB12, SC12

Channels: AB, ABN (SIN: AB)

Pulses per revolution:

2, 10, 15, 20, 24, 36, 40, 48, 50, 60, 64, 72, 87, 90, 100, 120, 125, 127, 128, 150, 160, 180, 200, 216, 240, 250, 254, 256, 300, 314, 320, 360, 400, 500, 512, 571, 600, 625, 720, 750, 768, 800, 810, 900, 1000, 1024, 1200, 1250, 1270, 1440, 1500, 1800, 2000, 2048, 2400, 2500, 3000, 3600, 4000, 4096, 4685, 5000

Other PPR's on request

Electrical connections:
Cable:

 K2 = axial, 2 m, shield not connected (standard)
 L2 = axial, 2 m, shield connected to encoder housing
 K3 = radial, 2 m, shield not connected (standard)
 L3 = radial, 2 m, shield connected to encoder housing

Connector:

S2 = 7-pin axial	SB4 = 4-pin axial
S3 = 7-pin radial	SC4 = 4-pin radial
S4 = 12-pin axial	SB5 = 5-pin axial
S5 = 12-pin radial	SC5 = 5-pin radial
S6 = 6-pin radial	SB8 = 8-pin axial
S7 = 4-pin axial	SC8 = 8-pin radial
	SB12 = 12-pin axial
	SC12 = 12-pin radial

Please note the connection configuration under "General technical data", Page 122

Options:

Empty =	without option
Low-temperature -40°C...+80°C =	ACA
Low-friction bearings =	AAC
Cable length =	in decimetres

Order No.:

Example

Your encoder