Wachendorff Automation GmbH & Co. KG
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Encoder WDG 63B

c UL us LISTED

Dimensions inches

- 3/8” stainless steel shaft
- Dimensions inches
- Protection to IP67, shaft sealed to IP65
- With control output
- Optional: -40°C ... +80°C [-40° F ... +176° F]
  www.wachendorff.de/wdg63b-engl

Application field

Electric motors, crane systems, packaging machines, conveyer and drive systems, assembly equipment, elevators/lifts.

Available PPR up to 5000

Mechanical Data

Housing
- Clamping flange: Aluminium
- Housing: Aluminium, powder coated

Shaft
- Material: stainless steel
- Load on shaft end: max. 220 N radial [22,434 kp]
  max. 120 N axial [12,237]
- Starting torque: approx. 1 Ncm [1,416 in-ozf] at ambient temperature

Bearings
- Type: 2 precision ball bearings
- Service life: 10^9 revs. at 100% of full rated shaft load
  10^{10} revs. at 40%
  10^{11} revs. at 20%

Operating speed: 8.000 rpm
Weight: approx. 280 g [9,877 oz]
Connections: Shielded cable or connector

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

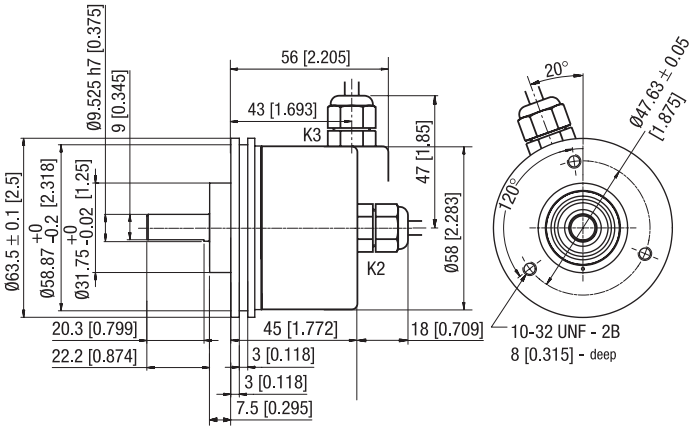
Operating temperature: -20...+80°C [-4°F...+176°F]
1Vss: -10...+70°C, [14°F...158°F]
Storage temperature: -30... +80°C [-22° F ... +176° F]

Electrical Data

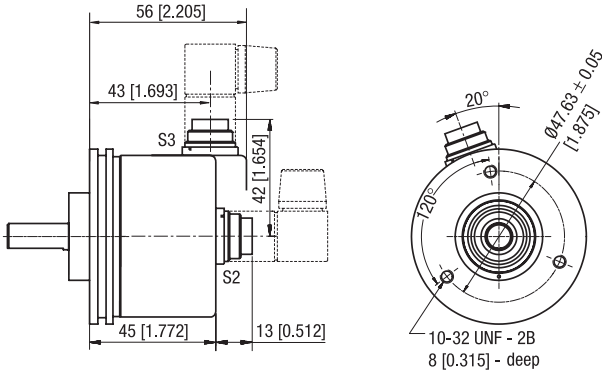
Power supply	Output circuit	Key	Output circuit*	Key
10-30 VDC	HTL	G24	HTL, inv.	I24
5 VDC	TTL	G05	RS422, TTL comp.	I05
5-30 VDC	HTL	H30	HTL, inv.	R30
10-30 VDC	-	-	RS422, TTL comp.	245
5 VDC	-	-	1 Vss Sin./Cos.	SIN

*Only for cable or connector:
K2, L2, K3, L3, S4, S5, SB8, SC8, SB12, SC12

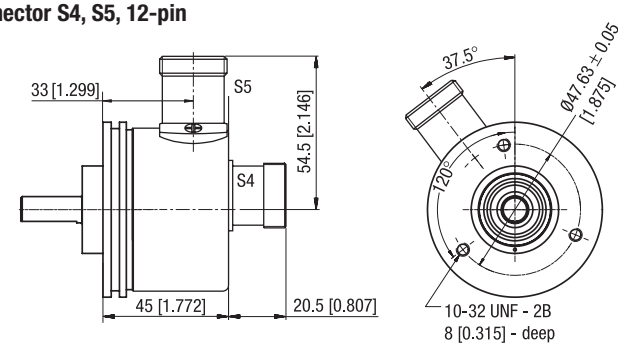
Cable connection K2, K3



Connector S2, S3, 7-pin



Connector S4, S5, 12-pin



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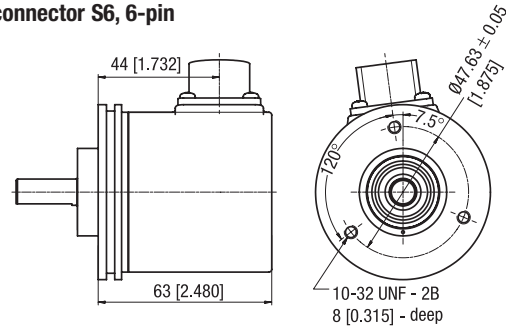
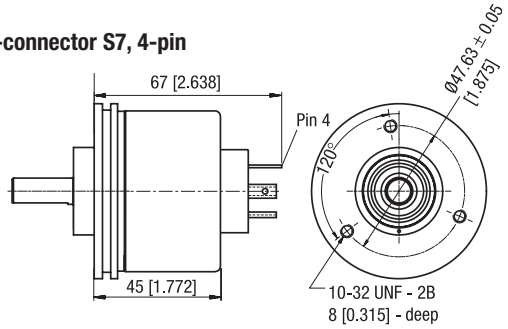
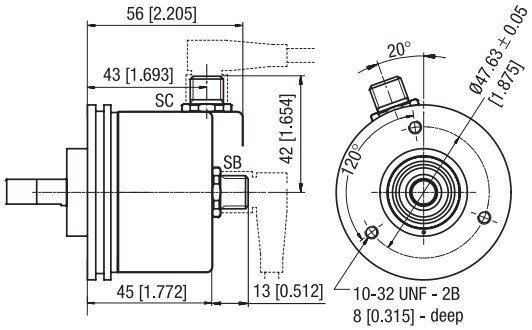
MIL-connector S6, 6-pin



Valve-connector S7, 4-pin



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



All dimensional specifications at technical drawings in mm [inch].
Further technical information on www.wachendorff.de/gtd
Matching accessories on www.wachendorff.de/acs

Options:

Low-temperature:
The encoder WDG 63B with the output switches G24, I24, G05, I05 and 245, is also available with the extended temperature range -40°C...+80°C [-40°F...+176°F] (measured at the flange). When ordering please add the suffix code - ACA.

Cable length:
The encoder WDG 63B can be supplied with more than 2 m cable. Please extend the standard order code with a three figure number, specifying the cable length in decimetres.

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, 2m [6.562ft], shield not connected (standard)
L2 = axial, 2m [6.562ft], shield connected to encoder housing
K3 = radial, 2m [6.562ft], shield not connected (standard)
L3 = radial, 2m [6.562ft], shield connected to encoder housing

Connector:
S2 = 7-pin axial
S3 = 7-pin radial
S4 = 12-pin axial
S5 = 12-pin radial
S6 = 6-pin radial
S7 = 4-pin axial
SB4 = 4-pin axial
SC4 = 4-pin radial
SB5 = 5-pin axial
SC5 = 5-pin radial
SB8 = 8-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 [-40°F ...+176°F] = ACA
Cable length = in decimetres

Order No.:

Example	WDG 63B	500	ABN	G24	K3	
Your encoder	WDG 63B					