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BOALA Series

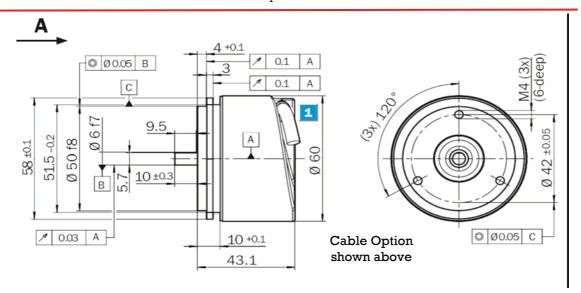
Solid Shaft Encoder—



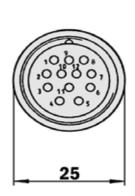
Features

- Factory Set for Same Day Dispatch (1 to 65,536 Pulses Per Rev)
- 100 Degrees Centegrate cabability as standard
- Industry Standard Mounting
- IP65 Protection
- Same Day Dispatch

The 60AA encoder is designed to be directly interchangable with industry standard servo-mount style encoders, but with that added advantages of the ability to choose any resolution from 1 pulse to 65,536 pulses per revolution and high temperature capability as standard. The advanced electronics provides superior performance and high noise immunity. Its very slim construction allows it to be mounted virtually anywhere, whilst still maintaining good environmental protection.



PIN, 12-pin M23 Connector	Colour of wires	Signal TTL, HTL
6	Brown	Ā
5	White	А
1	Black	B
8	Pink	В
4	Yellow	Z
3	Lilac	Z
10	Blue	GND
12	Red	+Us
9	Screen	Screen
2	_	N. C.
11	_	N. C.



12 pin (M23) Connector Option (below)

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BOAA Series

Solid Shaft Encoder —



Protection:

IP65 (higher on request)

Shaft Loading:

80N (radial) 40N (axial)

Use with suitable flexible coupling

Operating Temperature:

-20 to +100°C

Storage Temperature:

-40 to +100°C

Maximum Speed:

10,000 RPM

Vibration:

20g @ 10...2000Hz

Shock:

60g @ 6ms

Humidity:

90% RH (non-condensing)

Supply Voltage:

5 to 32VDC

Current Consumption (max):

40mA - without load

Load Current (max):

30mA

Cable:

Screened, oil and salt water

Impulse Frequency (max):

1 to 10,000ppr = 600KHz

10,000 to 65536 ppr = 820 KHz

Noise Immunity:

EN 61000-6-2

EN 61000-6-4

Torque @ 20°C:

0.5Ncm (Start)

0.3Nm

Ordering Code 60AA Resolution Pulses Per Revolution (PPR) Any Value Per Revolution between 1 to 65,536 Basic Series 60AA **Output Circuit** Shaft Size U - Universal Line Driver (6mm Diameter x 10mm) 5 to 32V Input with Differential 5 to Protection **0** - *IP65* 32V Outputs for HTL, Push / Pull, NPN, PNP Applications 3 - RS422 Line Driver Shaft Sealing 5 to 32V Input but with Differential 5V 0 - Sealed Bearing RS422 / TTL Compatatible Outputs Output Signals Exit 8 - A + B + Z + A/ + B/ + Z/**R** - Radial **Operating Temperature Range** Connection **D** - $(-20 \text{ to} + 100^{\circ} \text{ C})$ C - 5 Meter Cable P - M23 - 12 pin plug (as shown) fitted to very short cable Output Signals 6 - 600KHz (820KHz for resolutions All information shown shall under no circumstances form part of any contractual above 10,000 PPR) representation by Industrial Encoders Direct Ltd.

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