

SERIES

90FXA

SSI MULTI-TURN ABSOLUTE SHAFT ENCODER

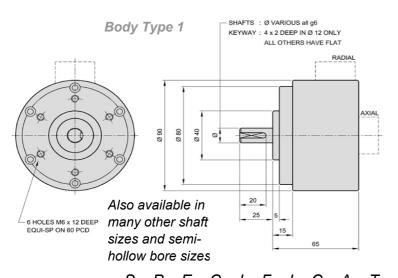
The 90SSI Series (in 90mm Frame Size) is an innovative Low Cost Multiturn, Heavy Duty absolute shaft encoder, machined from solid aluminium. It can be factory programmed up to a total of 32 bit resolution (14 bits per turn x 18 bit turns).

The encoder incorporates Magnetic ASIC technology for ultimate reliability and performance over a very wide temperature range (-20°C to +85°C).

(-40C is also available on request)



SEMI-HOLLOW SHAFT VERSIONS ALSO AVAILABLE UP TO 30mm BORE





SOLID SHAFT VERSION

S P E C I F I C A T I O N S

Body:

Precision Machined Aluminium (Stainless Steel Version also available - FXS Series)

Cover:

Precision Machined Aluminium (Stainless Steel Version also available - FXS Series)

Shaft:

Stainless Steel

Bearings:

Ballraces

Shaft Sealing:

IP65: Sealed front bearing IP66/IP67: Specialist shaft seal

Protection:

Options: IP65 or IP66 / IP67

Operating Temp:

-20 to +85°C (-40°C at extra cost)

Vibration

 $< 300 \text{ m/s}^2 / 10 \text{ to } 2000 \text{ Hz}$

Shock

 $< 1000 \text{m/s}^2 / 6 \text{ms}$

Maximum Mechanical Shaft Speed:

6000 RPM for IP65 3000 RPM for IP66 / IP67

Inertia:

100gcm² (typical)

Shaft Loading:

Axial = 10N (max) Radial = 10N (max)

Cable Version:

Screened, oil and salt water proof

Output Format

SSI (RS422)

SSI Clock Frequency:

1MHz (max)

Current Consumption:

50 to 100mA

CONNECTIONS

FUNCTION CABLE PLUG ^{colour}Black 0 Volts (Supply) Pin No. 1 Data (+) colour White Pin No. 2 Clock (+) colour Yellow Pin No. 3 **Count Direction** ^{colour} Pink Pin No. 5 If not connected CW = UP If connected to 0v CCW = UP colour Red Pin No. 8 + Volts (Supply) colour Brown Data (-) Pin No. 10 colour Violet Clock (-) Pin No. 11 ^{colour} Green Reset to Zero Pin No. 12 (if shorted to 0v)

S T A N D A R D F E A T U R E S

SSI Output (Binary or Gray)

Magnetic Technology

Very High Reliability

IP65 or IP66/IP67 Protection

Up To 32 Bit (at no extra cost)

UK Manufactured

Simple Reset To Zero Function

Robust Construction

Low Cost

Fast Delivery

3 YEAR Warranty

