S E R I E S

63UA LUMINIUM

ROTARY INCREMENTAL SHAFT ENCODER

The 63UA *Series* is a precision yet very versitile encoder designed to be compatible with many international and european encoders. Its wide range of mechanical combinations, plugs & sockets, pin formats and encoder resolutions (up to 30,000 pulses per revolution) make this encoder ideal for many industrial applications.

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

Input Voltage range	5/24V (see output circuits)
Regulation, for 5V operation	5%, with 2% maximum ripple
Current consumption	80mA typical
Output circuits	See Ordering Information
Frequency response	200 KHz (735/1 - 50KHz)
Symmetry	180° electrical ±5% (9°e)
Quadrature Phasing	90° electrical ±10% (9°e)
Minimum edge separation	72° electrical
Reference marker pulse	Gated (A • B • Z = F)
Rise time	Less than 1 microsecond
Accuracy (cycle to cycle)	±0.017° or 1 Arc/Min
LED life	100,000 hrs typical
Pulses per revolution	See Ordering Information
Max shaft speed	6,000 rpm continuous
Shaft sizes and types	See Ordering Information
Shaft tolerance	g6, sliding fit for H7
Bearings	ABEC 3

Starting torque	0.002 Nm (0.02 with seal)
Radial loading	80 N operating
Axial loading	60 N operating
Moment of inertia	70 g/cm
Acceleration	10^5 radians/sec^2
Weight	0.5 kg
Housing	Aluminum w/protective finish
Mounting	Servo flange or square flange
Operating temperature	–10°C to +70°C
High temperature	–10°C to +100°C
Storage temperature	–30°C to +85°C
Humidity	98% RHNC
Vibration	10 G's @ 58 to 500 Hz
Shock	50 G's for 11 mSec
Protection	IP50 standard
	IP64 w/seal (S30)
	IP66 w/seal (S36)

C O N N E C T I O N S

Many connection formats are available. Contact Industrial Encoders Direct Limited for more information.
Tel: +44 1978 664722 Fax: +44 1978 664733
Web: www.industrialencodersdirect.co.uk Email: sales@industrialencodersdirect.co.uk

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

IP65/66/67 Protection

Automatic Calibration

Short - Circuit & Overload Protection

UK Manufactured

3 Year Warranty

UK Manufactured

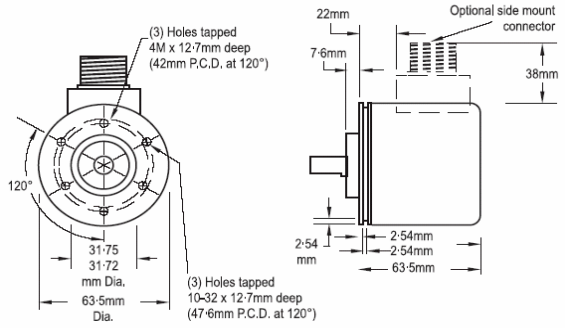
High Noise Immunity

Up to 30,000 PPR

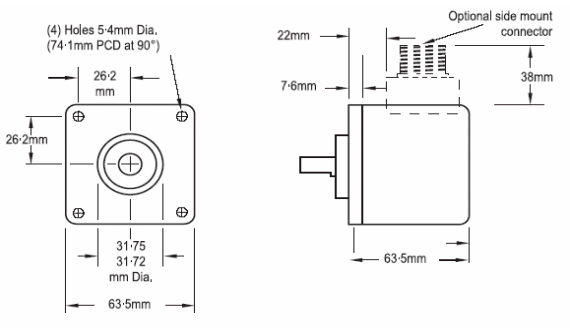
Low Cost

Fast Delivery

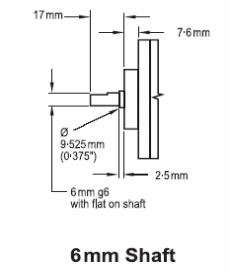
M E C H A N I C A L D R A W I N G S



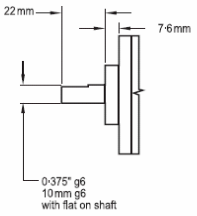
Servo Mount



Flange Mount



6mm Shaft



0·375" and 10mm Shafts

S T A N D A R D O R D E R I N G C O D E S

63UA

1 to 30,000 pulses per revolution available