

Model 925 Heavy Duty Single Turn Absolute



**BRITISH
ENCODER**
PRODUCTS COMPANY



Features

- Standard Size 25 Package (63.5mm)
- Resolutions Up To 12 Bit (4096 Counts)
- Incorporates Opto-ASIC Technology
- Industrial Grade, Heavy Duty Housing
- Wide Range of Operating Voltages (4.75 to 24 Vcc)

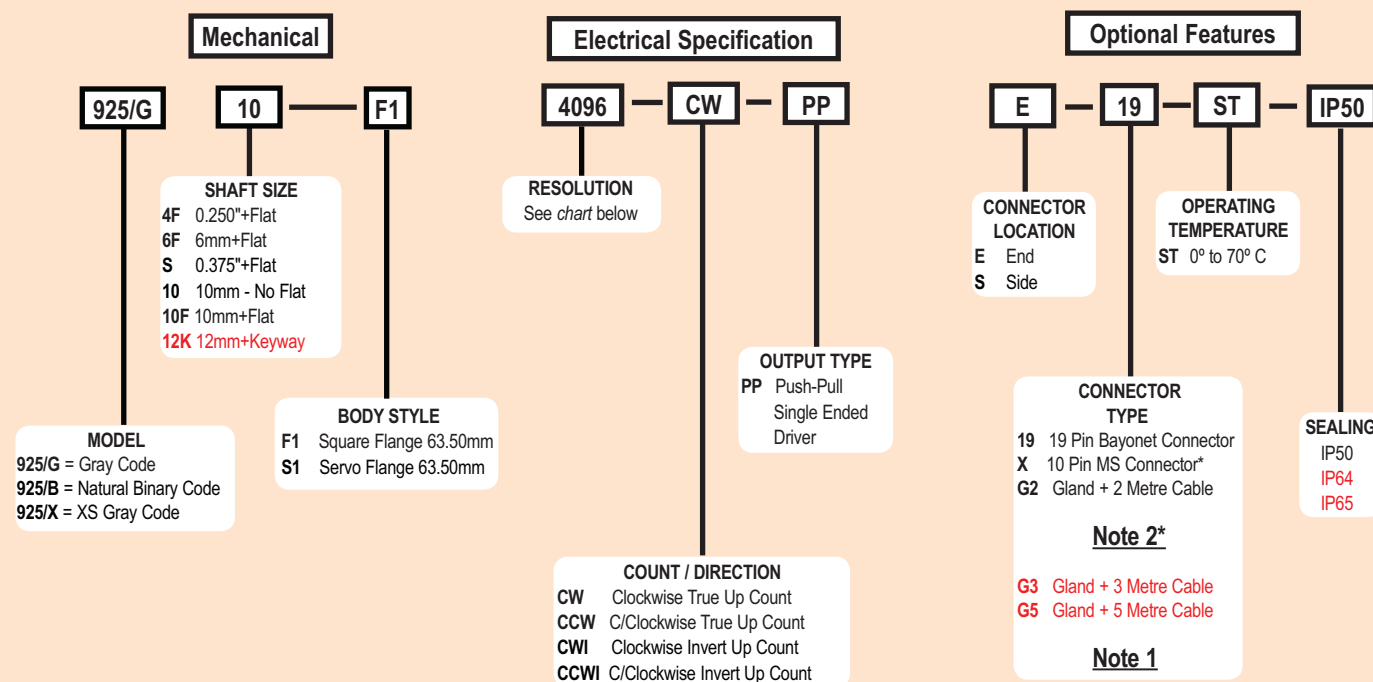
The Model 925 Single Turn Absolute is ideal for a wide variety of industrial applications that require an encoder with the capability of absolute positioning output. Its fully digital output and innovative use of Opto-ASIC technology make the Model 925 an excellent choice for all applications, especially ones with a high presence of noise. Available with either round servo or square flange mounting, and a variety of connector and cabling options, the Model 925 is easily designed into a variety of application requirements. The Model 925, with its wide selection of shaft sizes supported by industrial grade, heavy duty bearings, is ideal for rough environments.

Common Applications

Machine Tools, Robotics, Telescopes, Antennas, Rotary & X-Y Positioning Tables, Medical Scanners

Model 925 Ordering Guide

Red type indicates price adder options. Not all configuration combinations may be available. Contact Customer Service for details.



Model 925 Resolution Table

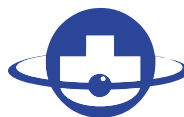
	Output Code	Pulses Per Resolution				
925/G	Gray Code	0256	0512	1024	2048	4096
925/B	Natural Binary	0250	0256	0360	0500	0512 0720
		1000	1024	1440	2000	2048 2880
		4000	4096			
925/X	Excess Gray	0180	0250	0360	0500	0720 1000
		1440	2000	2880	4000	

**For specification assistance call
Customer Service at
+44 (0)1978 262100**

NOTES:

- 1 For non-standard cable lengths - contact sales office for availability.
- 2 Only available with 8 bit resolution encoder.

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Model 925 Specifications

Electrical

Input Voltage4.75 to 24 Vcc max
 Regulation..... 100 mV peak-to-peak, max ripple at 0 to 10 kHz
 Input Current..... 100 mA max with no external load
 Output FormatAbsolute- Parallel Outputs
 Output TypePush-Pull- 20 mA max per channel
 CodeGray Code, Natural Binary Code, Excess Gray Code
 Max Frequency.....50 kHz (LSB)
 Rise Time.....Less than 1 microsecond
 Resolution.....Up to 12 bit
 Accuracy..... $\pm 1/2$ LSB

Control

Directional Control....Field selectable for increasing counts (CW or CCW)

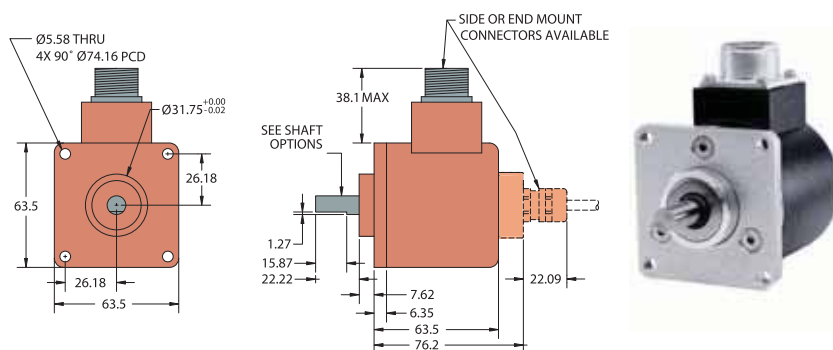
Mechanical

Max Shaft Speed.....6000 RPM continuous
 Shaft Size0.250", 0.3125", 0.375", 6 mm, 8 mm
 Radial Shaft Load.....15 Kg max
 Axial Shaft Load20 Kg max
 Starting Torque7.061 x 10⁻³ Nm typical for no seal
 1.412 x 10⁻² Nm with IP64 shaft seal
 Max Acceleration1 x 10⁵ rad/sec²
 Electrical ConnGland with 2M cable (braid shield, 30 AWG conductors), 10-, 16-, and 19-pin
 Housing.....Aluminum
 Mounting.....Flange or servo type
 Weight.....630 gms typical

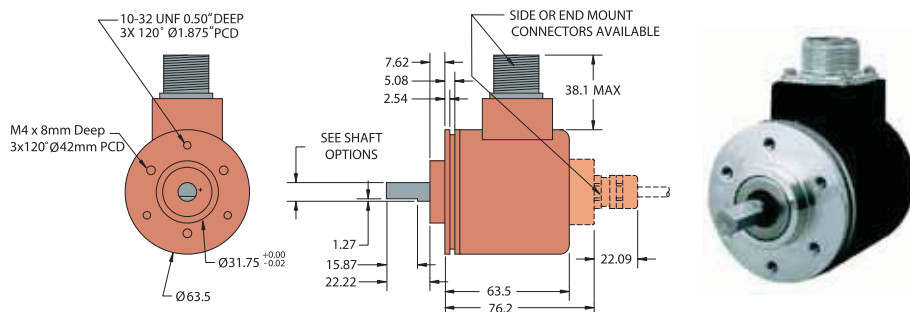
Environmental

Operating Temp.....0° to 70° C
 Storage Temp-20° to +85° C
 Humidity.....98% RH non-condensing
 Vibration.....10 g @ 58 to 500 Hz
 Shock.....20 g @ 11 ms duration
 Sealing.....IP50 (standard)
 IP64, or IP65 optional

Model 925 Flange Mount F1



Model 925 Servo Mount S1



Wiring Table

	19-PIN KPT02E14-19P	10-PIN* MS	Gland Cable or Mating Conn.	NOTES:
Function	Pin	Pin	Wire Color	
S1 MSB	A	A	Brown	* Only available with 8-bit resolution encoders ** Where Fitted *** Direction Control- Standard is CW increasing when viewed from the shaft end. Direction pin is pulled high normally to 5V internally. Direction pin must be pulled low (GND, Common) to reverse count direction. 0V only should be applied to the direction pin.
S2	B	B	White	
S3	C	C	Green	
S4	D	D	Orange	
S5	E	E	Blue	
S6	F	F	Violet	
S7	G	G	Grey	
S8 LSB 8-bit	H	H	Pink	
S9 LSB 9-bit	J	—	Red/Green	
S10 LSB 10-bit	K	—	Red/Yellow	
S11 LSB 11-bit	L	—	Turquoise	
S12 LSB 12-bit	M	—	Yellow	
Direction***	R	—	Red/Blue	
Case Ground	S	—	Drain/Screen	
0V Common	T	J	Black	
Special**	U	—	White/Red	
+Vcc	V	I	Red	