

Series 926 8 bit Absolute Encoder



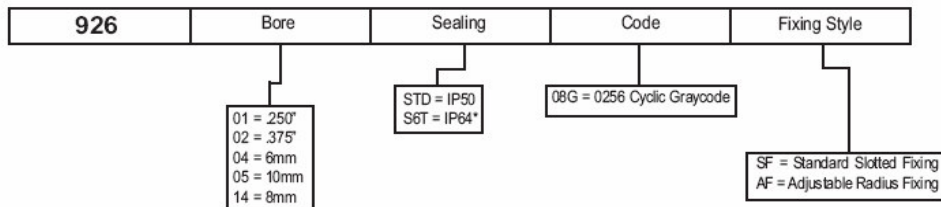
Design Features

The 926 Series miniature 8 bit absolute encoder has been designed with very compact dimensions and a simple fixing arrangement. Available in 8 bit (0256) graycode, the 926 is a full thru-bore hollow shaft device, fitted with 2m of cable. The encoder operates from 4.75 - 26V in Push-Pull mode.

Specifications

Input Voltage range.....	4.75/26V	Starting torque.....	0.002 Nm
Regulation, for 5V operation..	5%, with 2% maximum ripple	User radial shaft runout.....	0.15 max TIR
Current consumption.....	100mA. No external load	User axial shaft end play.....	+/-0.7mm
Output circuits, per channel...	20mA (max) Push-Pull	Radial loading.....	Being the mass of the encoder
Frequency response (LSB)...	50 KHz	Axial loading.....	Being the mass of the encoder
Output codes.....	Cyclic graycode	Moment of inertia.....	100 g/cm
Repeatability.....	within 0.01°	Acceleration.....	10 ⁵ radians/sec ²
Error limit/accuracy.....	0.04°	Weight.....	0.2 Kg
Rise time.....	Less than 1 microsecond	Housing.....	Aluminum
Resolution.....	8 bits	Operating temperature.....	0°C to +70°C
LED life.....	100,000 hrs typical	Storage temperature.....	-20°C to +85°C
Pulses per revolution.....	See ordering information	Humidity.....	98% RHNC
Max shaft speed.....	6,000 rpm continuous	Vibration.....	10 G's @ 58 to 500 Hz
Bore sizes.....	See ordering information	Shock.....	50 G's for 11 mSec
Bore tolerance.....	H7 sliding fit for g6	Protection.....	IP50 standard
Bearings.....	ABEC 3		*IP64 due late 2003

Ordering Information



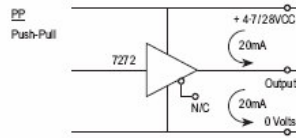
*IP64 available late 2003 in bore sizes 250"; 6mm and 8mm only.



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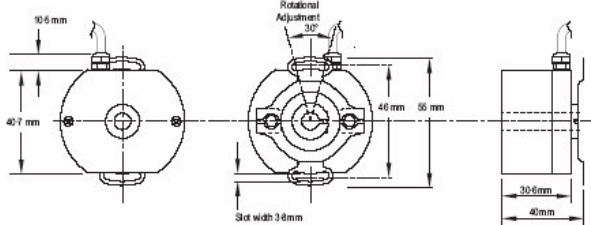
Output Circuits



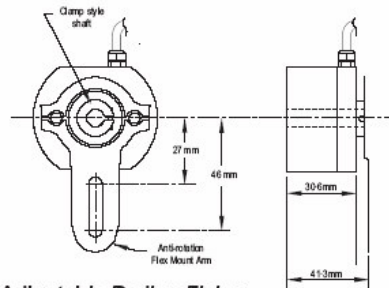
Termination

Function	Cable colour
OV Common	Black
+Vcc (5-24V)	Red
S1 (cw MSB)	Brown
S1 (ccw MSB)	Yellow
S2	White
S3	Green
S4	Orange
S5	Blue
S6	Violet
S7	Grey
S8 (LSB)	Pink
Case Ground	Screen Wire

Dimensions



Standard Slotted Fixing



Adjustable Radius Fixing

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