Unive other shart and bad ball.

Products this shart in output dead ball.

601-1045

Full 360° Smart Position Sensor



The Model 601-1045 represents a new generation of Smart Sensors. This unique electronic device is a self-contained package which provides an analogue electrical output over a full 360° without the need for external electronics. The low power consumption and non-volatile output makes this universal sensor the real cost-effective alternative to encoders. Its versatile design makes it suitable for a variety of industries and applications, such as CCTVs, Medical instruments, Robotic arm control, CNC machinery, Rotational control systems, Pick n' place machines and Angular feedback applications.

PRODUCT HIGHLIGHTS

- Ratiometric output over 360° range with no dead band.
- Self-contained package not requiring external electronic interface.
- Angular response 50 µsecs.
- Reverse polarity protection.
- Absolute and non volatile positioning output.

ELECTRICAL

Supply:

4.5 to 5.5V DC

Supply Current:

20 mA max.

Absolute Max. Supply:

6V

Independent Linearity:

±1% Typical

Resolution:

Resolves down to a minimum of 0.5°

Electrical Track:

360° continuous

Analogue Voltage Output:

Not less than 90% of supply (ratiometric) - see graphs below

Output Ramp Slope:

Electrically switchable - see graphs below

Output Impedance:

1 ohm typical

Temperature Characteristic:

±1° max. over -40/+70°C

Insulation Resistance:

1000M ohm min.

Dielectric Strength:

1000V RMS 50/60 Hz

MECHANICAL

Rotation:

360° continuous

Rotational Speed:

5 revs/sec max. (duration 60 seconds)

Operating Torque Max:

Starting and running 3.68 mNm (0.5Oz in)

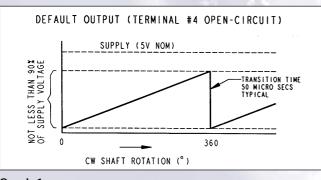
Weight:

30 gms

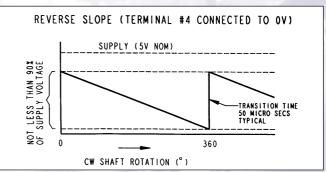
ENVIRONMENTAL

Operating Life: 5,000,000 cycles
Operating Temp. Range: -40°C to 70°C
Storage Temp. Range: -40°C to 105°C

Sealing: IP54



Graph 1

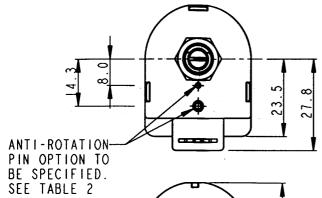


Graph 2

601-1045

Full 360° Smart Position Sensor





\$pectro

PAT. MP. SEETABL

\$06-50000

\$0000

1 2 3 4

PRODUCT No, DATE CODE AND TERMINAL I.D. LABEL



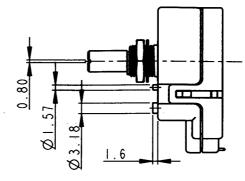


Table 1

Pin Connections		Function	
1	+5V	Cupply	
2	OV	Supply	
3	Output	O/P Voltage	
4	Direction	Ramp Polarity	

Materials				
Housing:	Plastic			
Bushing:	Brass, nickel plated			
Shaft:	Stainless steel			
Pin Terminal connector:	Gold plated			
Output connection:	Pin header to suit IDC connectors			
	e.g. Panduit C100 - F22 and			
	Molex 7880			
Bushing mount hardware				
Lock washer, Internal tooth: Steel, nickel plated				
Panel nut:	Brass, nickel plated			

Cable assembly for connection: Supplied loose			
Description:	4 way IDC connector		
	4 way ribbon cable (300mm)		

ORDERING INFORMATION

| 601-1045 - XXXX | C |
| Model Number | Standard | Cable Harness | Configuration | Codes | Co

Table 2

Product Number	Ø1.57 PIN	Ø3.18 PIN
0000	YES	YES
0001	YES	-
0002	-	YES
0003	-	-

