

Full 360° Smart Sensor (Hall Effect Technology)



FEATURES

- Absolute ratiometric output over 360° range with no dead band
- Self-contained package not requiring external electronic interface
- Contactless technology
- Reverse polarity protection
- Non volatile positioning output



The model 601-HE represents a new generation of Smart Sensors in contactless technology based on the Hall effect principle. This unique electronic device is a self-contained package which provides an analog electrical output over a full 360° without the need of external electronics. The low power consumption and non-volatile output makes this universal sensor the real cost-effective alternative to encoders.

STANDARD ELECTRICAL SPECIFICATIONS	
PARAMETER	
Supply	4.5 to 5.5 V _{DC}
Supply current	10 mA maximum
Over voltage protection	10 V
Independent linearity	± 1 %; ± 0.5 %
Electrical track	360° continuous
Analog voltage output	Not less than 90 % of supply (ratiometric) CW or CCW see graphs on next page
Output ramp slope	Electrically switchable - see graphs
Temperature coefficient	60 µV/°C
Hysteresis	< 0.2 %

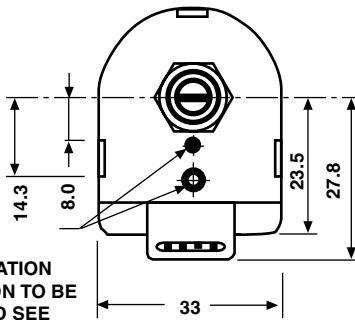
MECHANICAL SPECIFICATIONS	
Rotation	360° continuous
Rotational speed (max)	120 rpm
Operating torque maximum	0.25 oz. - in (18 g - cm)
Weight	30 g

ENVIRONMENTAL SPECIFICATIONS	
Operating life	5 000 000 Cycles
Operating temp. range	- 45 °C + 125 °C
Storage temp. range	- 45 °C to + 125 °C
Sealing	IP54

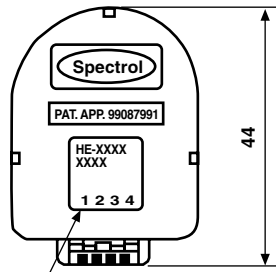
ORDERING INFORMATION/DESCRIPTION																			
601-HE	1	000	A	BO1	e4														
MODEL	OUTPUT SIGNAL DIRECTION 1: CW 2: CCW	CONFIGURATION CODE	LINEARITY A: ± 1 % B: ± 0.5 %	PACKAGING Box of 1 piece	LEAD FINISH														
		<table border="1"> <thead> <tr> <th>PRODUCT NUMBER</th> <th>Ø 1.57 PIN</th> <th>Ø 3.18 PIN</th> </tr> </thead> <tbody> <tr> <td>000</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>001</td> <td>Yes</td> <td>-</td> </tr> <tr> <td>002</td> <td>-</td> <td>Yes</td> </tr> <tr> <td>003</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	PRODUCT NUMBER	Ø 1.57 PIN	Ø 3.18 PIN	000	Yes	Yes	001	Yes	-	002	-	Yes	003	-	-		
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SAP PART NUMBERING GUIDELINES												
6	0	1	H	E	2	0	0	1	B	B	0	1
MODEL				OUTPUT SIGNAL 2: CCW	PIN CONFIGURATION			LINEARITY B: ± 0.5 %	PACKAGING			

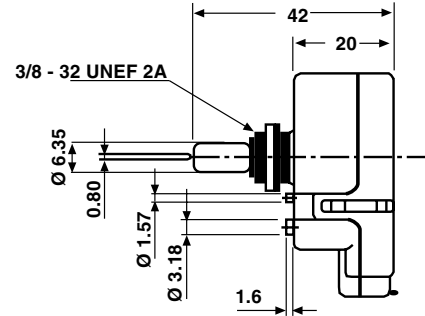
DIMENSIONS in millimeters



ANTI-ROTATION
PIN OPTION TO BE
SPECIFIED SEE
ORDERING
INFORMATION



PRODUCT NO. DATE
CODE AND TERMINAL
I.D. LABEL

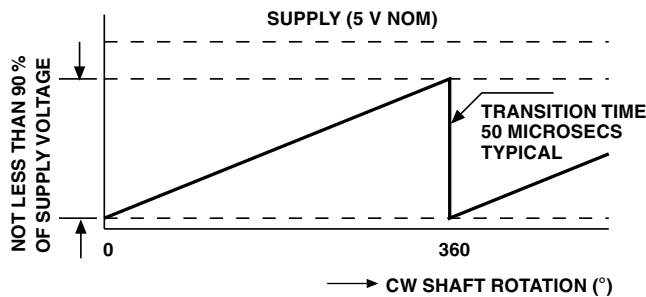


PIN CONNECTIONS		FUNCTION
1	+ 5 V	Supply
2	0 V	
3	Output	O/P Voltage
4	Direction	Ramp Polarity

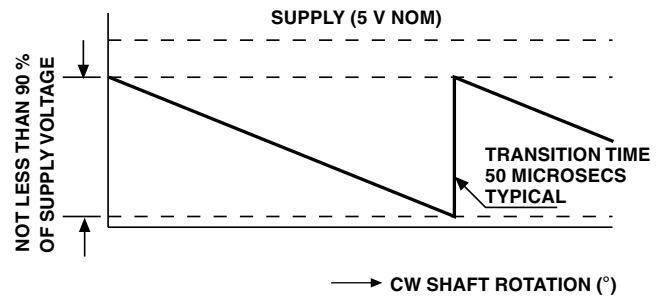
MATERIAL SPECIFICATIONS	
Housing	Plastic
Bushing	Brass, nickel plated
Shaft	Stainless steel
Pin terminal connector	Gold plated
Output connection	Pin header to suit IDC connectors. e.g. Panduit C100 - F22 and Molex 7880
Bushing mount hardware lock washer, internal tooth	Steel, nickel plated
Panel Nut	Brass, nickel plated



CABLE ASSEMBLY FOR CONNECTION	
Part Number	601-1056-0000
Description	Molex KK
	4-way crimp connector
	4 wire (250 mm)



MODEL: 601 HE 1xxx



MODEL: 601 HE 2xxx



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