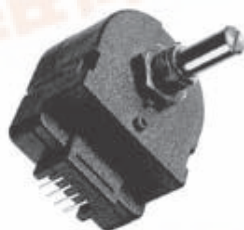


Full 360° Smart Sensor (Hall Effect Technology)



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
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

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 V _{DC} to 5.5 V _{DC}
Supply Current	16 mA max.
Over Voltage Protection	10 V
Independent Linearity	± 1 %
Electrical Track	360° continuous
Analog Voltage Output	5 % to 95 % of supply (ratiometric) CW or CCW see graphs on next page
Output Ramp Slope	Electrically switchable - see graphs
Temperature Coefficient	V _{out} /ΔT 125 μV/°C typ.
Hysteresis Static	0.8° max.

MECHANICAL SPECIFICATIONS

Rotation	360° continuous
Rotational Speed (Max.)	120 RPM
Operating Torque Max.	0.25 oz.-in (18 g-cm)
Weight	30 g

ENVIRONMENTAL SPECIFICATIONS

Operating Life	5 000 000 Cycles
Operating Temperature Range	- 45 °C + 85 °C
Storage Temperature Range	- 45 °C to + 85 °C
Sealing	IP54

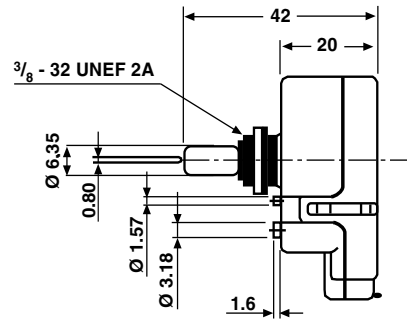
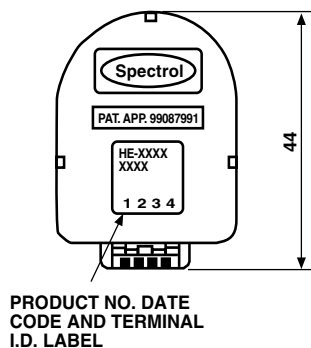
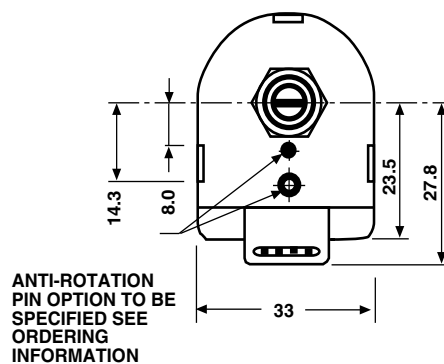
ORDERING INFORMATION/DESCRIPTION

601 HE	0000	BO1	e4															
MODEL	CONFIGURATION CODE	PACKAGING	LEAD FINISH															
		Box of 1 piece																
	<table><tr><th>PRODUCT NUMBER</th><th>Ø 1.57 PIN</th><th>Ø 3.18 PIN</th></tr><tr><td>0000</td><td>Yes</td><td>Yes</td></tr><tr><td>0001</td><td>Yes</td><td>-</td></tr><tr><td>0002</td><td>-</td><td>Yes</td></tr><tr><td>0003</td><td>-</td><td>-</td></tr></table>	PRODUCT NUMBER	Ø 1.57 PIN	Ø 3.18 PIN	0000	Yes	Yes	0001	Yes	-	0002	-	Yes	0003	-	-		
PRODUCT NUMBER	Ø 1.57 PIN	Ø 3.18 PIN																
0000	Yes	Yes																
0001	Yes	-																
0002	-	Yes																
0003	-	-																

SAP PART NUMBERING GUIDELINES

601 HE	0001	B01
MODEL	PIN CONFIGURATION	PACKAGING

DIMENSIONS in millimeters

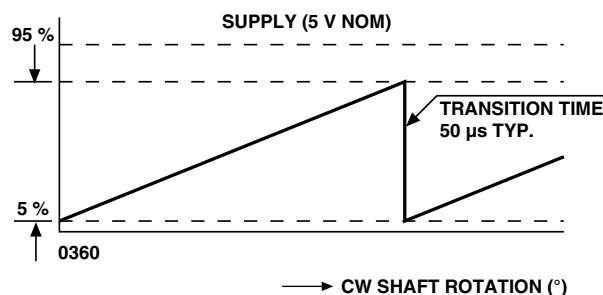


PIN CONNECTIONS		FUNCTION
1	+ 5 V	Supply
2	0 V	
3	Output	O/P voltage
4	Direction	Connected to 0 V: CCW Open circuit or connected to 5 V: CW

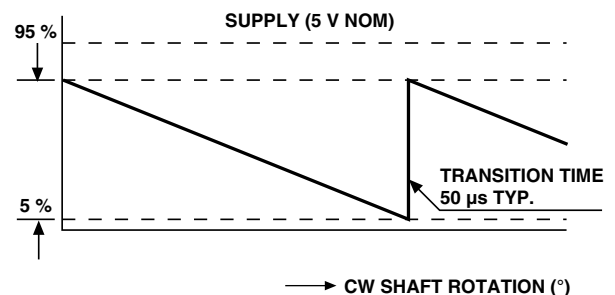
MATERIAL SPECIFICATIONS	
Housing	Plastic
Bushing	Brass, nickel plated
Shaft	Stainless steel
Pin terminal connector	Gold plated
Output connection	Pin header to suit IDC connectors. e.g. Panduit C100 - F22 and Molex 7880
Bushing Mount Hardware Lock Washer, Internal Tooth	Steel, nickel plated
Panel Nut	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 when pin 4 connected to 5 V or open circuit



MODEL: 601 HE when pin 4 connected to 0 V

Disclaimer

All product specifications and data are subject to change without notice.

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