

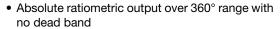
Vishay Spectrol

Full 360° Smart Sensor (Hall Effect Technology)



QUICK REFERENCE DATA	
Sensor type	ROTATIONAL, single turn hall effect
Output type	Output by pins (connector)
Market appliance	Industrial
Dimensions	33 mm x 44 mm x 20 mm

FEATURES





• Self-contained package not requiring external electronic interface

- Contactless technology
- · Reverse polarity protection
- Non volatile positioning output
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

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 ozin (18 g-cm)
Weight	30 g

ENVIRONMENTAL SPECIFICATIONS	
Operating life	5 000 000 Cycles
Operating temperature range	- 45 °C to + 85 °C
Storage temperature range	- 45 °C to + 85 °C
Sealing	IP54

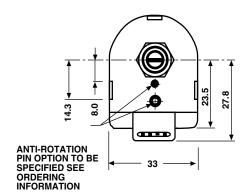
ORDERING INFORMATION/DESCRIPTION					
601 HE		0000		BO1	e4
MODEL	CONFIGURATION CODE		PACKAGING	LEAD FINISH	
	Product Number	Ø 1.57 PIN	Ø 3.18 PIN	Box of 1 piece	
	0000	Yes	Yes		
	0001	Yes	-		
	0002	-	Yes		
	0003	-	-		

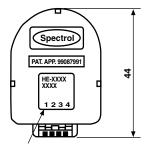
SAP PART NUMBERING GUIDELINES		
601 HE	0001	B01
MODEL	PIN CONFIGURATION	PACKAGING





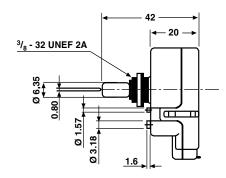
DIMENSIONS in millimeters





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

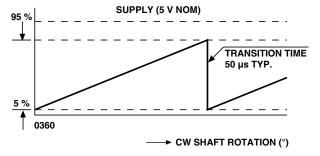
MATERIAL SPECIFICATIONS	
Housing	Plastic
Bushing	Brass, nickel plated
Shaft	Stainless steel
Pin terminal connector	Gold plated
Output connection	Pin header to suit IDC connectors. e.g. Panduit C100 - F22 and Molex 7880
Bushing mount hardware lock washer, internal tooth	Steel, nickel plated
Panel nut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



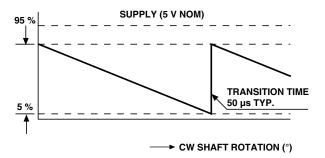
PIN	CONNECTIONS	FUNCTION	
1	+ 5 V	Supply	
2	0 V	, Зирріу	
3	Output	O/P voltage	
4	Direction	Connected to 0 V: CCW Open circuit or connected to 5 V: CW	



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



Legal Disclaimer Notice

Vishay

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