

Datasheet standexelectronics.com

S63B-DHS1-5KCB2A Dual Output Hall Switch Sensor

Dual Output Hall Switch Senso

- > Dual output hall switch
- > 55 gauss operate
- ➤ NPN w/5k pull up resistor
- > Stainless 5/8-18 x 2.5" MS opt housing
- ➤ Integral 4 pin male 12mm micro connector



CUSTOMER FOCUSED ENGINEERING + MODULAR DESIGN

Part Description: $\underline{S63B} - \underline{DHS1} - \underline{5KCB2A}$

Housing	Sensor Type & Function	Electrical Option	Connection Type
Stainless Steel MS Opt	<u>D</u> ual Output <u>H</u> all <u>S</u> witch	NPN, <u>5k</u> Pull Up Resistor	CB2A = Integral 4 Pin Male
5/8-18 x 2.5" Long	Sensor		12mm Micro Connector

Modify, update, or enhance any sensor with our modular features and functionality.

HOUSING - Aluminum, stainless steel, plastic, threaded, flange mount, customer specific

ELECTRICAL - Every sensor function available in various electrical options (NPN, PNP, TTL, etc.)

CONNECTION - Deutsch, Amphenol, many other brands, free end wires, pigtails, any length

Need a Custom Sensor Solution?... Send us your application specific requirements at sensorso.com

'Dual Output' Hall Switch Sensor

Magnet S Pole





CHANNEL A — LOW

CHANNEL <u>B</u> OUTPUT <u>OFF</u> — HIGH

Magnet N Pole





CHANNEL <u>A</u> OUTPUT <u>OFF</u> — HIGH

CHANNEL \underline{B} — LOW

Type - DHS

DESCRIPTION

- Sensor produces dual pulsing outputs, 1 South Pole and 1 North Pole.
- Functions as directional limit switch when magnets are mounted at each end of range of motion.
- No orientation required. Use lock nuts to set air gap within range of target magnets.
- South Pole element is located closer to sensor face and will detect at a slightly greater operate gap.
- Note: Operate and release gaps are dependent on the size, material, grade, and temperature of the target magnet.

FEATURES

- True Zero Speed
- Greater Detection Gap Than Standard DHS Sensor
- Rugged, Sealed Housing
- Solid State (Nothing to wear out!)



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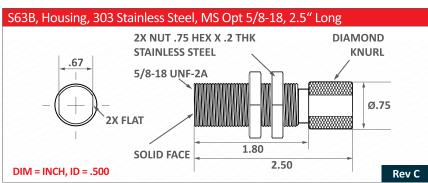
Note: Check our website or contact us to see all of our Options, including more and less sensitive choices.

Electrical Specifications	Conditions	Min	Max	Unit
Temperature Range*	Operating	-40	+110*	Deg C
Supply Voltage, Vcc	Over temperature	+4.5	+28	Volts DC
Supply Current, Output Off	Into Vcc	+4	+14	mA
Frequency Range		0	20	kHz
Internal Pull Up Resistor	Vcc to Vout	4.9	5.1	kOhms
Saturation Voltage Low 100% tested at 20°C before shipping	Vcc=12V, Rload >100k	0	.4	Volts
Saturation Voltage High 100% tested at 20°C before shipping	Vcc=12V, Rload >100k	11.5	12	Volts
Output Rise Time 10-90%	C < 100pF	-	8.0	μS
Output Fall Time 90-10%	C < 100pF	-	2.0	μS
ESD **	Nondestructive	-	8000	Volts
EMI**	20k to 1 G Hz	-	100	V/M

* T max = 150°C is available, contact factory.

** Specifications not available at release.

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CB2A, Integral 4 Pin Male 12mm Micro Connector	
SENSOR HOUSING .750 ADDED TO LENGTH OF HOUSING	SENSOR BACK VIEW SHOWING PINS
DIM = INCH	Rev B

Absolute Max Limits	Min	Max	Unit
Supply Voltage, Vcc	-32	+32	Volts DC
Voltage Applied to Output	-0.3	+28	Volts
Current Into Output	-	25	mA
Current Out of Output	-	Vcc/5k	mA
Load Dump, 40 mS Rs = 20	-	60	Volts

Environmental Specifications		
Corrosion Resistance	500 hours salt spray ASTM B-117	
Installation Torque	80 Foot-Pounds Maximum	
Enclosure	Nema 1,3,4,6,13 & IEC IP67	
Vibration	10 G's 2 to 2000 Hz Sinusodal	
Mechanical Shock	100 G's, 11 mS Half-Sine	

Magnetic Characteristics	Min	Тур	Max
Operate Point Over Temp 100% tested at 20°C before shipping	15 G	55 G	76 G
Release Point Over Temp	5 G	35 G	57 G
Hysteresis Over Temp	5 G	20 G	28 G
Inside Depth to N pole Element	-	.060"	-
Inside Depth to S pole Element	-	.090"	-

Ground
S Pole Vout

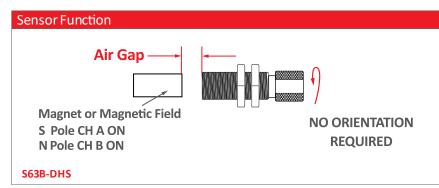
OTHER MATING CONNECTORS AND CABLES AVAILABLE

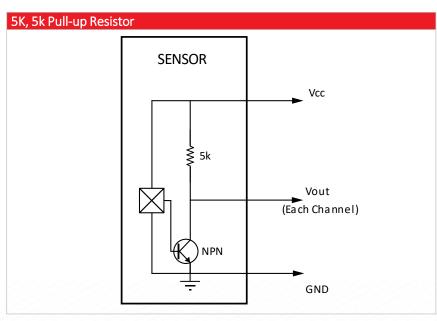


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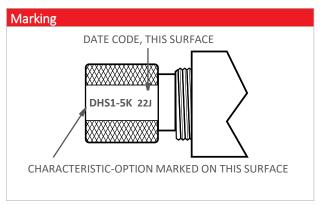
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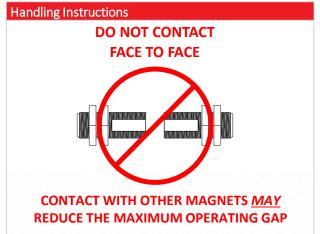
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Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These change will be incorporated in future revisions.

 $For deviating \ values, most \ current \ specifications \ and \ products \ please \ contact \ your \ nearest \ sales \ office.$

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