

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Honeywell Sensing and Control

55SS16



55SS Series Series Unipolar Hall-Effect Digital Position Sensor

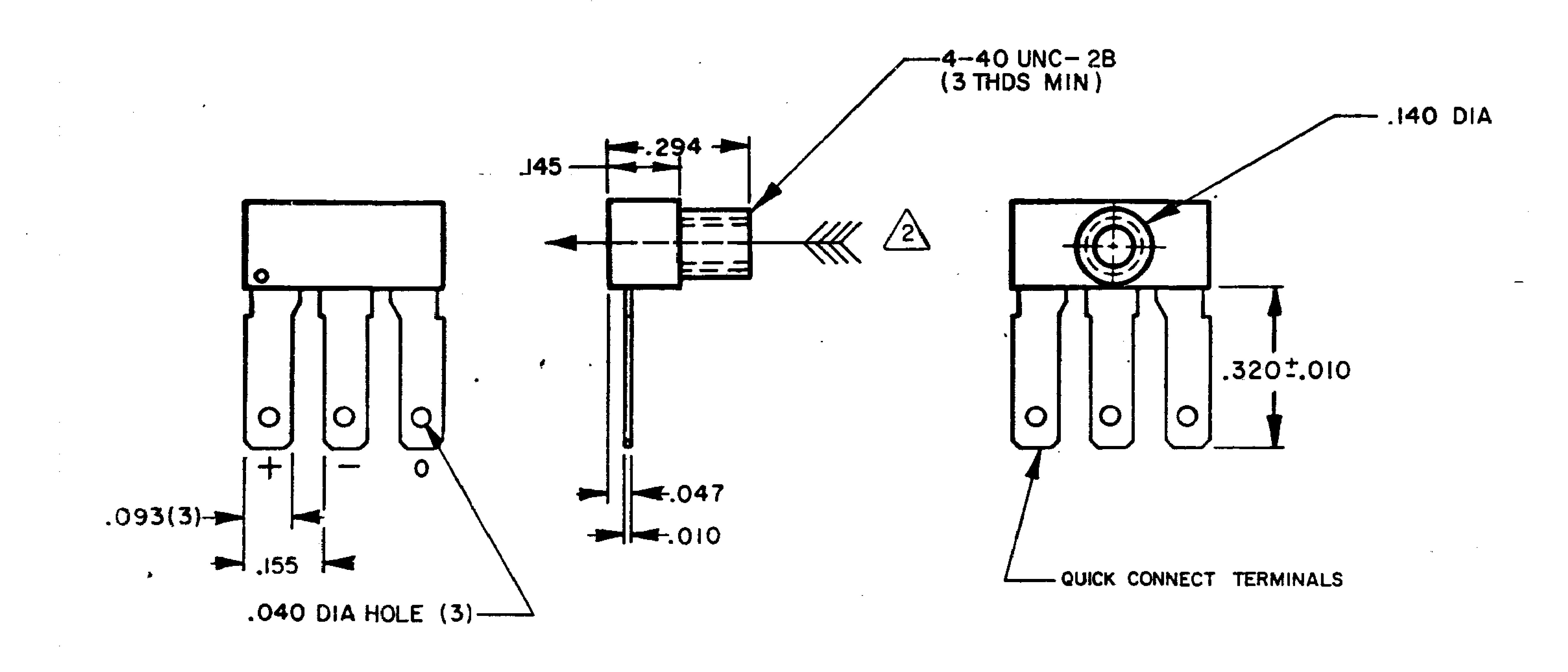
Actual product appearance may vary.

Potential Applications

- Speed and RPM sensor
- Brushless DC motor commutation
- Motor and fan control
- Magnetic encoding
- Tachometer, counter pickup
- Disc speed, tape rotation sensing
- Flow-rate sensing

Product Specifications								
Product Type	Hall-Effect Digital Position Sensor IC							
Package Style	Threaded Boss, Quick Connect Terminals							
Supply Voltage	4.5 Vdc to 9.0 Vdc							
Output Type	Sink							
Termination Type	Male 0.093 in X 0.010 in Quick Connect Terminal							
Magnetic Actuation Type	Unipolar							
Operating Temperature Range	-40 °C to 100 °C [-40 °F to 212 °F]							
Storage Temperature	-40 °C to 150 °C [-640 °F to 302 °F]							
Output Voltage	0.4 Vdc max. 0.5 μs max.							
Switching Time Rise (10 % to 90 %)								
Switching Time Fall (90 % to 10 %)	0.5 μs max.							
Availability	Global							
Supply Current (max. @ 25 °C)	4 m A							
Output Current (max.)	20 mA							
Operate Point @ 25 °C	40.0 mT [400 G] max.							
Release Point @ 25 °C	5.7 mT [57 G] min.							

Leakage Current max.	10 μΑ
Differential	5.7 mT [57 G] min.
Series Name	5SS



ABSOLU	TE MAXIMUM RATING			
SUPPLY VOLTAGE (V _S)	-1.2 TO +10 VDC			
VOLTAGE EXTERNALLY APPLIED TO OUTPUT	(-) 0.5 VOLT MAX (ON OR OFF CONDITION) (+) 10 VOLTS MAX (OFF CONDITION ONLY)			
LOADS TO OUTPUT	20 MA (SINK)			
TEMPERATURE	-40°C TO +100°C OPERATING -40°C TO +150°C STORAGE			

OPERATING CHARACTERISTICS (GAUSS)				· · · · · · · · · · · · · · · · · · ·		CATALOG
3 5	MIN	TYP	MAX	NUMBER	NUMBER	TIDITIAC
OPERATE RELEASE DIFFERENTIAL	57 57	245 148 97	400	3	PR-4177	55SS16
OPERATE RELEASE DIFFERENTIAL						

NOTES

CATALOG LISTING AND LOT NUMBER WILL BE STAMPED ON PACKAGE

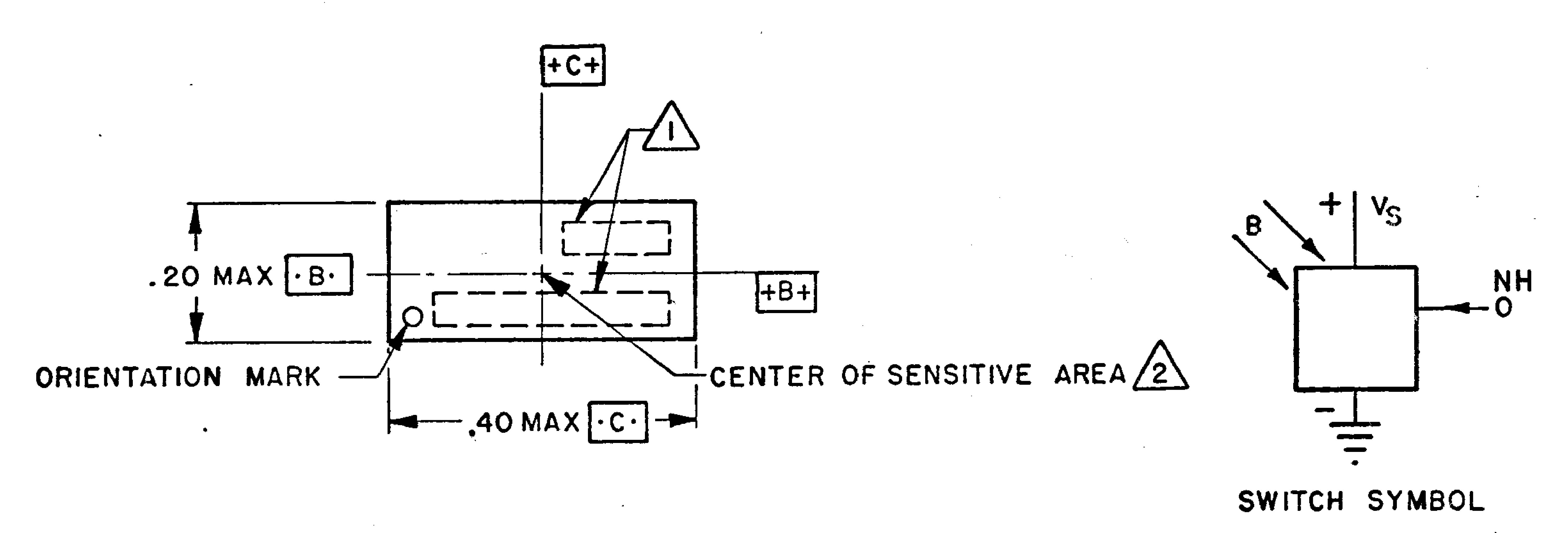
TO ACTUATE THE DEVICE THE SOUTH POLE OF THE MAGNET OR MAGNETIC FLUX GENERATOR MUST BE PRESENTED TO THE CENTER OF THE FRONT SURFACE OF THE DEVICE. (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)

THE MAGNETIC FIELD STRENGTH (GAUSS) REQUIRED TO CAUSE THE SWITCH TO CHANGE STATE (OPERATE AND RELEASE) WILL BE AS SPECIFIED IN THE OPERATING CHARACTERISTICS. TO TEST SWITCH AGAINST THE SPECIFIED OPERATING CHARACTERISTICS, THE SWITCH MUST BE PLACED IN A UNIFORM MAGNETIC FIELD

4)- VOLTAGE REFERENCED TO GROUND

AT 24° ± 2°C AND 5 VDC ±0.5% SUPPLY VOLTAGE

6 SUPPLY VOLTAGE RANGE IS 4.5 TO 9.0 VDC



SWITCH DETAIL