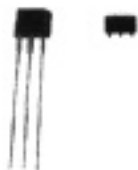


Magnetic Sensors Analog Output

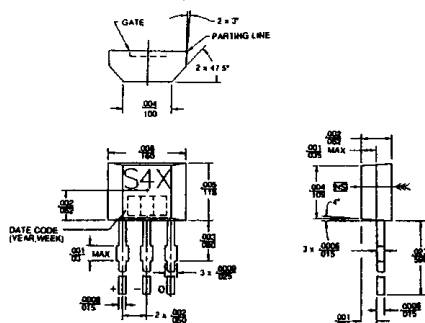
SS49/SS19 Series



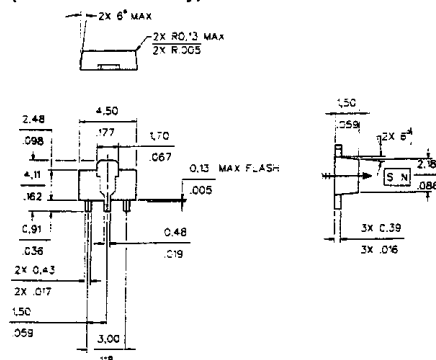
FEATURES

- 4 to 10 VDC supply voltage
- High output current sourcing capability – 10 mA continuous, 20 mA max.
- Ratiometric output
- Low supply current – 4 mA typ., for battery operation
- Very small, industry accepted packages
- Available on tape and reel for automated assembly
- Responds to North or South pole
- Linear output voltage over wide magnetic flux range

MOUNTING DIMENSIONS (For reference only)



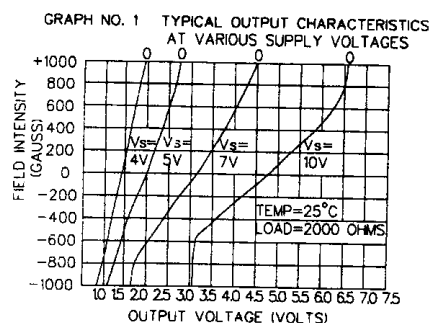
MOUNTING DIMENSIONS (For reference only)



TYPICAL LINEAR OUTPUT CHARACTERISTICS*

Graph #1

This graph displays the relationship between supply voltage and the combined effects of a change in sensitivity (gain) and null voltage output at room temperature. The sensitivity variation is represented by a change in the slope of the curve. The null voltage shifts the entire curve.

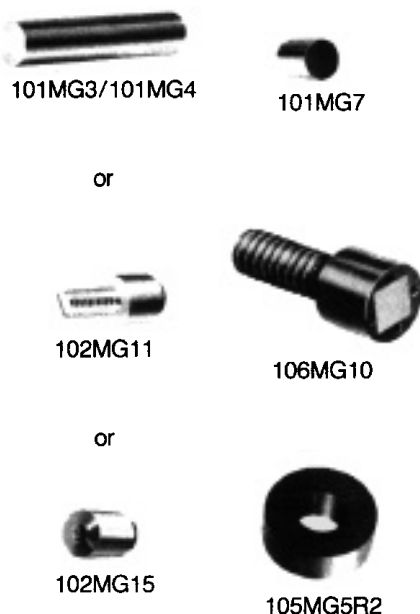


SS49/SS19 SERIES ORDER GUIDE

Catalog Listing	Supply Voltage	Supply Current	Output Voltage @ 0 gauss	Magnetic Characteristics Output	Gauss Range
SS49/SS19	4 to 10 VDC	4 mA typ.	1.75 to 2.25 V	0.60 to 1.25 mV/gauss	-400 and +400

Magnets

MG Series



MICRO SWITCH does not manufacture magnets. However, we do supply bar and ring magnets for operating our Hall effect sensors. The most common form of magnet used to operate a Hall effect sensor is the bar magnet. The magnet should provide at least 10% flux overdrive above "Max. Operate", when at minimum distance from the sensing surface.

Ring magnets are magnetized on the outside diameter with both North and South poles. Each pole pair (N and S) produces one pulse with standard Hall devices.

MG ORDER GUIDE – Bar Magnets

Catalog Listing	Length	Outside Diameter
101MG3	6,3/0.25	31,7/1.25
101MG2L1*	3,2/0.125	9,5/0.375
101MG7*	6,3/0.25	6,3/0.25
102MG11*	7,9/0.31	17,0/0.67
102MG15*	7,9/0.31	12,2/.48
103MG5**	2,0/.078	2,0/.078
106MG10*	10,2/0.40	23,6/0.93

* Bulk packaging in 100 unit lots — ADD-BP to catalog listing.

** 125 pieces per tube. Poles not marked.

MG ORDER GUIDE – Ring Magnets

Catalog Listing	# Pole Pairs	Outside Diameter
105MG5R2	2	15,9/0.625
105MG5R4	4	15,9/0.625