

MSM 1010

Magnetic Field Sensor Module

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- ◆ Included Magnetic field sensor with high sensitivity
- ◆ Measurement range up to $\pm 100 \mu\text{T}$

FEATURE

- Low noise and high stability of output signal
- Complete miniature magnetometer
- Controlable detection range up to 1m
- Single 5V power supply
- Digital signal Output

SPECIFICATIONS

Characreristics	Min.	Typ.	Max.	Unit	Description
Supply Voltage	4.5	5	5.5	V	
Supply Current	21	23	25	mA	
Operating Temperature	-20	20	90	°C	
Sampling Time	-	20	-	mS	

INTERFACE OF EXTERNAL FUNCTION

Color	Function		Description
RED	VCC		DC 4.5V ~ DC 5.5V
BLACK	GND		
GREEN	OUTPUT		ON / OFF (5V LEVEL)
YELLOW	SENSITIVITY	0.8V	Default Sensitivity
		5V	Minimum Sensitivity
		0V	Maximum Sensitivity
GREY	RESET	VCC	Active (Internal Pull Up)
		GND	RESET

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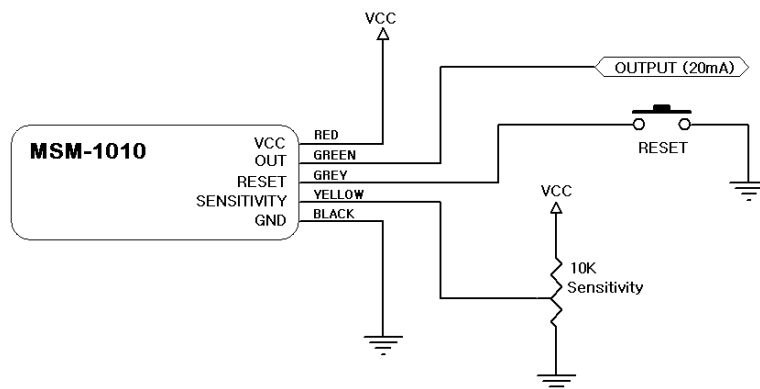
DIMENSION



APPLICATIONS

- Measurement of the earth's magnetic field
- Detection of fields from power lines
- Current measurement
- Distance sensors
- Magnetic signatures
- Traffic control, automotives
- Material and package inspection
- Residual field measurements (shielding effectiveness)

APPLICATION CIRCUIT



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