

Ground-Detecting Module Product Specifications

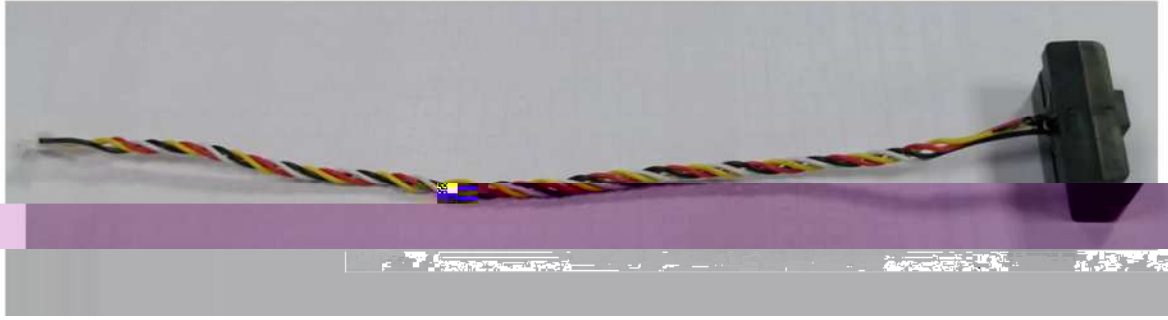
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Approved By:

Checked By:

Prepared By:

DIMENSIONS OF DRAWING



Notes:

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.50\text{mm}$ unless otherwise noted.
3. The size marked on the drawing is Ground Detection Module.
4. Specifications are subject to change without notice.

Pb free product—RoHS compliant

Fast response time

High sensitivity

Invisible wavelength $\lambda=940\text{nm}$

Integration structure

The four pins of the connector and the corresponding PCB pads are filled with silicone

Intelligent Sweeping Robot

Parameter		Symbol	Ratings	Unit
Input	Power Dissipation	P_d	170	mW
	Reverse Voltage	V_R	5	V
	Forward Current	I_F	100	mA
	Peak Forward Current ^{*1}	I_{FP}	250	mA
Output	Collector Power Dissipation	P_c	75	mW
	Collector Current	I_C	20	mA
	Collector-Emitter Voltage	V_{CEO}	30	V
	Emitter-Collector Voltage	V_{ECO}	5	V
Electrostatic Discharge (HBM)		ESD	4000	V
Operating Temperature Range		T_{opr}	-25 to + 65	
Storage Temperature Range		T_{stg}	-40 to + 85	

Note: 1. Pulse width 0.1msec, duty cycle 1/2

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