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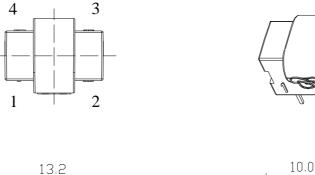
Technical information

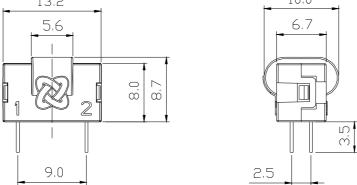
Photoelectric motion sensor

Features

- Motion sensor specifically for electric irons
- Small sized, lightweight, easy to install
- High sensitivity and reliability, with a lifespan up to 50,000 hours or more
- Product itself in compliance with safety regulations
- In compliance with Rohs requirements (European standard)

External dimensions





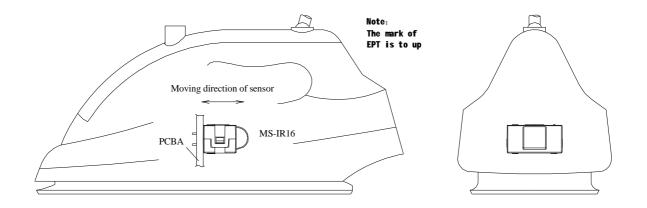
Remarks:

- 1. Unit of measurement: mm
- 2. Tolerance of dimensions not shown: ± 0.20 mm

Patented

MS-IR16

Way of installation

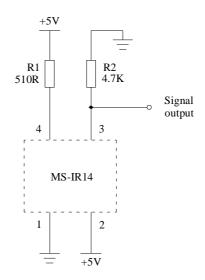


Remarks:

- 1. This motion sensor is suitable for applications in which the PCBA is placed vertically.
- 2. Moving direction of sensor must be in the same direction as the electric iron moves back and forth when used.

Application

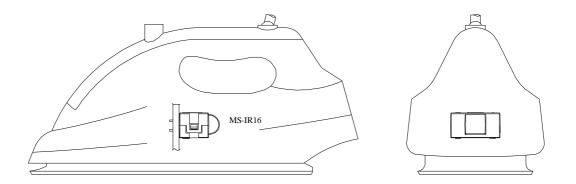
Connect the motion sensor according to the following circuit. The signal output terminal will have a voltage signal output corresponding to the motion condition and attitude of the motion sensor, based on which the MCU or control circuit of the electric iron knows its motion condition and attitude, thus sending commands accordingly to meet functional and safety requirements.



Typical 5VDC circuit application

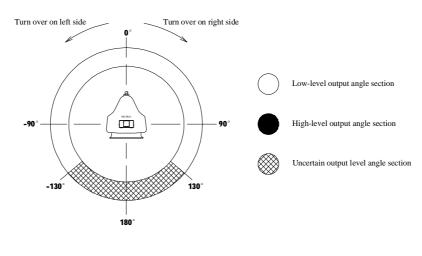
The signal output is detailed as follows:

1. The signal output will be at low level when the electric iron remains motionless horizontally, as shown below.



Horizontally motionless electric iron

2. Shown below is the distribution of signal output level angle section when the electric iron turns over to its left or right.



Turn over on left side	0°∼-130°	Low-level output
Turn over on right side	$0^{\circ} \sim 130^{\circ}$	Low-level output
Turn over on left side	-130°~-180°	Uncertain output level
Turn over on right side	130°~180°	Uncertain output level

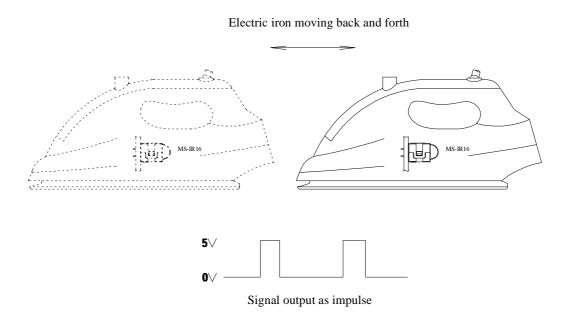
Technical information

Photoelectric motion sensor

- Tilt forward -20° -10° 10° 20° -90° -10° 10° 20° -10° -10° -10
- Tilt forward 0°~-10° Low-level output $0^{\circ} \sim 10^{\circ}$ Tilt backward Low-level output Tilt forward -20°~-160° High-level output Tilt backward $20^{\circ} \sim 160^{\circ}$ High-level output -10°~-20°, -160°~-180° Uncertain output level Tilt forward Tilt backward $10^{\circ} \sim 20^{\circ}, 160^{\circ} \sim 180^{\circ}$ Uncertain output level

180 °

4. The signal output will be an impulse signal when the electric iron moves back and forth, as shown below.



3. Shown below is the distribution of signal output level angle section when the electric iron tilts forward or backward.

Signal output state	Signal output voltage (V)	True value	Total current (mA)	Power consumption (mW)
Low level	< 0.1	0	<9	<45
High level	> 4.6	1	<9	<45
Impulse	< 0.1 or > 4.6	0/1	<9	<45

Operational parameters are shown in the table below (Ta= 25° C)

Limit parameters (Ta=25°C)

Parameter	Symbol	Specification
Operating temperature	Topr	-25℃ to 85℃
Storage temperature	Tstg	-40°C to 85°C
Soldering temperature	Tsol	260±5°C, 5±0.5S
Lifespan	Т	50,000 h

Package specification

200 pcs/disc, 10 discs /Carton box 200 pcs/disc, 40 discs/Carton box