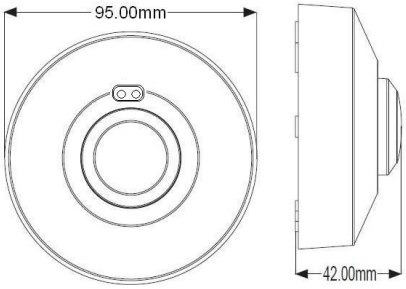
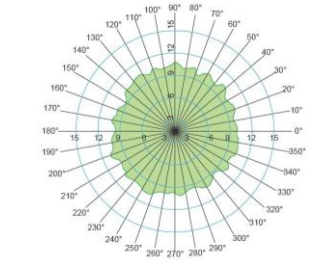
Microwave sensor instruction Mode No: SK-701-DC

1. Appearance and size



2. Product introduction

SK-701-DC is an active motion detector with adjustable sensitivity, daylight detection and time setting. It's based Doppler principle and RADAR technology, adopting rod antenna & high performance micro-chip. It is easy to install, provide high probability of detection, low nuisance alarms and resistance to rain, fog, wind, dust, falling snow and temperature extremes.



⚠ suggested installation height 2.5-5m

Detection range may change due to different installation height

3. Technical parameters

1	Operating voltage	12-24VDC	7	Transmission power	<0.2mW
2	Rated load	7A (Max)	8	Installation	Ceiling mounting
3	Detection area	2-10 meters	9	Detection angle	360°
4	Time setting	10sec-5min	10	Mounting height	Max. 3. 5 m
5	Light control	10~2000LUX	11	Operating temperature	-35℃~+80℃
6	Microware frequency	5.8GHz +/-75MHz	12	Product size(L*W*H)	95*95*43mm

Note: the high-frequency output of this sensor is <0.2mW that is just one of the transmission power of a mobile phone

4. Installation procedure

4. 1 Take down the top cover by turning it anti-clockwise (see fig.1),

4. 2 Hold base against the wall and mark drill holes, paying attention to any existing wiring in the wall

4. 3 Drill the holes, insert wall plug (6mm dia.)

4. 4 Put the power wire and load wire through the base holes

4. 5 Screw the base into place (see fig.2)

4. 6 Connect the mains power supply and the load wire to the connection terminal according to connection-wire mark

4. 7 Fit glass shad and turn it clockwise (see fig.2)

fig.1

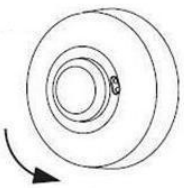
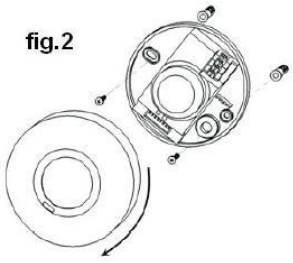
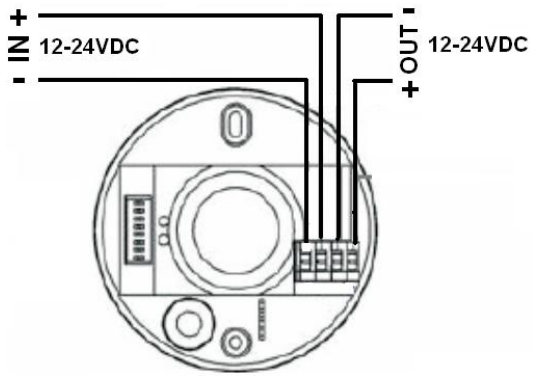


fig.2



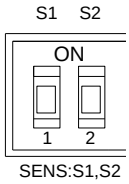
5. Wiring diagram



6. Settings

Reach setting (sensitivity)

Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, switch to the on is “1”, switch to the off is “0”;The corresponding file of switch location and detection distance as follow:



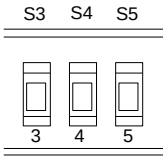
SENS:S1,S2

S1	S2	distance	S1	S2	distance
0	0	2m	1	0	8m
0	1	5m	1	1	10m

NOTE: The above detection distance is measured using a person who is between 1.6m~1.7m tall with an average build, moving at a speed of 1.0~1.5m/sec. if any of these variables are changed, the detection distance will also resultantly change.

Time setting

Time can be set 10s to 5min.Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Switch to the on is “1”, switch to the off is “0”; the corresponding file of switch location and detection distance as follow



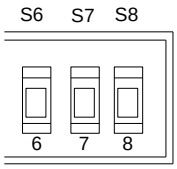
TIME:S3,S4,S5

S6	S7	S8	Time	S6	S7	S8	Time
0	0	0	10S	1	0	0	50S
0	0	1	20S	1	0	1	1min
0	1	0	30S	1	1	0	2min
0	1	1	40S	1	1	1	5min

NOTE: after the light switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting

The chosen light response threshold can be infinitely from approx. 10lux-2000LUX. Switch to the on is “1”, switch to the off is “0”; he corresponding file of switch location and detection distance as follow:



LUX:S6,S7,S8

S6	S7	S8	LUX	S6	S7	S8	LUX
0	0	0	24H	1	0	0	100 LUX
0	0	1	10 LUX	1	0	1	200 LUX
0	1	0	20 LUX	1	1	0	300 LUX
0	1	1	50 LUX	1	1	1	500 LUX

6. Troubleshooting

malfunction	Cause	Remedy
The Load does not work	Wrong light control setting selected	Adjust setting
	Load faulty	Change load
	Mains switch off	Switch on
The load work always	Continuous movement in the detection zone	Check zone setting
The load work without any identifiable movement	The sensor not mounted for detecting movement reliably	Reinforcement install accessories
	Movement occurred, but not been identified by the sensor (movement behind wall, movement of a small object in immediate lamp vicinity etc.)	Check the induction space settings
The load will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	Check the induction settings

Tips

Please under the guidance of professionals personage to set related parameters of the sensors, do not secretly dismantling the product. We reserve the right to make technical change without prior notice.