

Discription of Microwave Doppler Sensor (SD1)

DX-40,DX-40PLUS,DX-60,DX-60PLUS

Microwave Doppler Sensor (SD1) transmits and receives X-band microwave.

If there is a moving object in the detection area,

it causes changes in received microwave frequency (doppler effect).

SD1 outputs a signal when there are such changes.

Microwave transmitting frequency = 10.525 [GHZ]

In order to save current draw, power is supplied to SD1 at pulsed operation of 4% of the duty value, namely, for 40 micro sec. per 1msec. At the same timing, SD1 transmits and receives microwave, and analyse a signal by doppler effects by "Sample and Hold Circuit". The timing chart is following.

