Microwave Level Switches

WKM Series

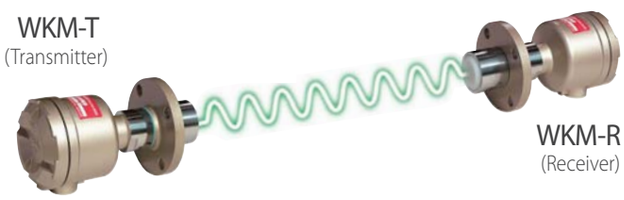
The WKM microwave level switch is hardly be affected by dirt, fouling, or scale adhesion on the sensing surface with 24GHz frequency. It even accurately detects the paper garbage, which has been almost impossible to measure by other detecting methods

Principle Of Operation

WKM microwave level switch consists of a transmitter and a receiver, facing each other. As soon as the transmitter transmits 24GHz microwaves toward the receiver, it provides an output of the contact signals that the tank is empty. When there is an obstruction between the transmitter and the receiver, microwaves are reflected and absorbed, thus it outputs a contact signal that the tank is full.

Installation

A transmitter and a receiver should be installed in such way that a terminal is respectively aligned either on the same side or on the opposite side.
(Install both the transmitter and the receiver in setting to the zero degree or turning them by the 180 degree. When they are turned by the 90 degree for intallation, it does not work.)



Standard Specification

Power Supply	AC105V/210V ±10% 50/60Hz
Type Designation	Transmitter = WKM-T Receiver = WKM-R
Operating Distance	Switching System by Range SW

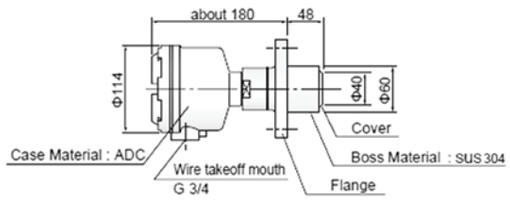
DIP SW	Measurement Range
1	15m
2	25m
3	35m

Frequency	24GHz
Operating Distance	Max 35m
Output	1xSPDT 250V AC 5A
Delay Function	ON Delay 0.1 to 10 seconds
Power Consumption	Transmitter 2VA, Receiver 5VA
Ambient Temperature	-20 ~ +60℃
IP Rating	IP67
Weight	Transmitter 1.5kg, Receiver 1.6kg
Flange	JIS5K50A

Application Model

WKM-G(Standard Flange type)





Temperature limit	Max.60℃
Usage environment	Outdoor
Flange Size	JIS 5K50A/AC
Cover Material	PA
Setting distance	MAX.35m