

FDMS-20 LR Specification Sheet

Microwave Barrier
for liquid and bulk solid level detection



Area of application

- Flow/no flow detection
- Chute blockage detection
- High and low level detection
- Conveyer belt detection
- Track/car overload detection
- Crane anti-collision detection

Feature and benefit

- Energy and frequency monitoring and predicting
- Adherence warning
- Electronic components temperature monitoring
- Hardware breakdown self-checking
- Multi-band output.
- Connectable to LCD display unit
- Remote display of history energy curve
- Digital energy display

Working principle

The FDMS-20 LR type microwave level switch is a level switch consisting of an emitting unit and a receiving unit installed face to face.

The emitting unit emits a continuous, low power microwave beam towards the receiving unit. If there is medium between emitting unit and receiving unit, the signal is damped. This change is detected by the build-in electronics module and converted into a switching command.

Technical data

Measuring range	0 ~ 200 m
Power supply	AC100~240V±10% /DC11V~32V
Output	DPDT
Frequency	22~24GHz
Beam angle	± 20°
Delay time	0~99S (adjustable)
Power	3W
Channel no.	8
DIP switch	4 bit
Frequency accuracy	50K Hz
Process fitting	Thread or flange
Seal material	FKM(Viton)
Antenna material	PTFE
Ambient temperature	-40~70 °C
Process temperature	-40~120 °C (up to 500 °C with adapter)
Process pressure	1~4bar (up to 40bar with adapter)
Protect level	IP67