



Key features- SWI-MLS/ SWI-LD100 (Magnetic loop Sensor)

- ❑ Single channel inductive loop detector for vehicle detection applications.
- ❑ Compatible with 220 VAC or 12-24 VDC power supply.
- ❑ High sensitivity adjustable via front panel sensitivity dial.
- ❑ Supports pulse or permanent output mode selectable by dial switch.
- ❑ Adjustable output timer controls relay activation duration.
- ❑ Detects vehicles by monitoring inductance changes in loop.
- ❑ Ideal for barrier gates, parking, traffic control systems.
- ❑ Loop frequency selection minimizes cross traffic interference.
- ❑ Relay output signals traffic controllers or gate operators.
- ❑ Rugged design ensures stable detection in outdoor installations..

Technical Specifications

Parameter	Specification
Model	SW-MLS/ SWI-LD100
Detection Channel	Single-channel (1 loop)
Power Supply	220V AC / 12-24V DC
Frequency Range	20-170 kHz
Sensitivity Levels	4-step adjustable (High to Low)
Output Mode	Pulse or Presence (Selectable)
Response Time	10-90 milliseconds
Presence Time	Infinite / Limited (selectable by DIP switch)
Relay Output	2 relays (Presence & Fault)
Loop Inductance Range	20-2000 μ H
Ideal Loop Size	Perimeter: 6 to 12 meters
LED Indicators	Power (Red), Detection (Green)
Operating Temperature	-20°C to +70°C
Housing Material	ABS Plastic Enclosure
Application Areas	Boom barriers, parking, tolls, traffic control

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