DML-9LP

Low Power Free Exit Probe Detector

SOLAR FRIENDLY

Detector operates on any voltage from 10 to 30 volts AC or DC and draws about 1 milliamp of current with no vehicle over the sensor. This detector only uses Diablo Controls' free exit probe. This micro-sized detector has no user settings and will automatically configure itself when powered up. The DML-9LP can only operate in the pulse mode, presence is not possible.

SPECIFICATIONS

Vehicle Sensor:	Diablo Controls Mini-Loop (magnetometer).
Operating Temperature:	-35°F to 165°F (-37°C to 74°C)
Operating Voltage:	10 to 30 volts AC or DC, approximately 1 mA when not in detect.
Enclosure:	Impact resistant, high temperature plastic.
Dimensions:	1.52" (H) x 2.90" (W) x 1.56" (D) 38.61 mm (H) x 73.66 mm (W) x 39.62 mm (D)
Output Ratings:	Relay Outputs - 1 amp @ 125VAC maximum.

INDICATORS

Green Power LED: This LED blinks once per second to indicate the detector is powered and operating. In the case of an open in the input circuit, this LED flashes slowly (twice per second). This LED will flash fast (10 times per second) to indicate a shorted input circuit.

Red Detect LED: This LED will turn on for 125 ms when a vehicle is detected.

FAIL-SAFE vs FAIL-SECURE DETECTORS

A fail-safe detector will output "detect" when the loop circuit is failed. On the free exit loop this will keep the gate open until the situation is fixed. This is useful in applications where it is important to allow traffic flow to continue. A fail-secure detector will never output "detect" when the loop circuit is failed. This will keep the gate closed. This is useful in high-security areas or installations where containment is needed. **The DML-9LP is a fail-secure detector. Note:** Never use a fail-secure detector on a safety loop.

CONNECTOR

Removable 7-pin terminal block. Pin assignments are shown below (from left to right):

1 – Relay Normally Closed (NC) - contact opens for 125 ms on detect
2 – Relay Common
3 – Relay Normally Open (NO) - contact closes for 125 ms on detect
4 – Power Common
5 – Power In (10 to 30 volts AC or +DC)
6 – Mini-Loop
7 – Mini-Loop

ORDERING INFORMATION

DML-9LP	Detector Only
DML-9LP-75	Detector + Free Exit Probe with 75' Lead-in
DML-9LP-100	Detector + Free Exit Probe with 100' Lead-in

Features

- Designed for solar powered applications.
- Designed to be used with Diablo Controls' free exit probe.
- Will not interfere with other loop detectors.
- Plug and play. Switchless and self-adapting to most common installations. Connect it up and watch it work.
- Small profile, perfect for many installations.
- Fail-secure operation.
- Wide low-voltage operation.