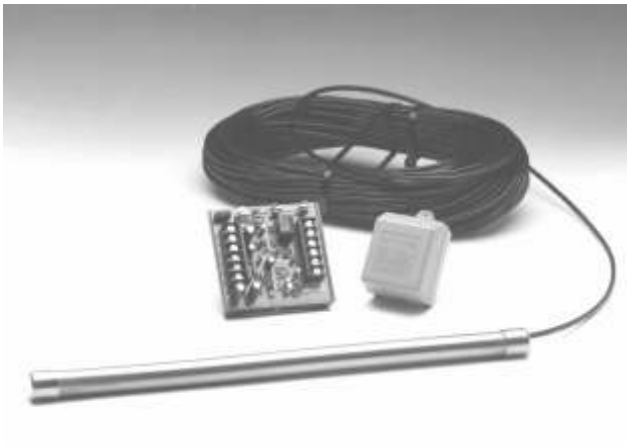
MFMsensors, Inc.

vehicle sensor systems

DATA SHEET

MODELS D-373 AND D-376

MODEL D-373 DELUXE SYSTEM



MODEL D-376 HIVALUE SYSTEM

AVAILABLE POWER OPTIONS:
12VAC 12VDC 12VDC LOW CURRENT 24VDC

ECONOMICAL….. Inexpensive, yet high quality, field-proven systems using solid-state, dependable circuitry.

RELIABLE….. Copper sensor housing and shielded sensor cable increases immunity to false trips caused by static, radio frequencies, and lightning.

EASY INSTALLATION….. Systems are furnished with up to 4,000 feet of direct burial cable attached to the sensor. Plug in step-down transformer furnished with AC models, quick and simple electrical connections.

ONE YEAR HASSLE-FREE LIMITED WARRANTY!

The ***MFMsensors*** Vehicle Sensor Systems use a passive sensor that detects changes in the earths magnetic field caused by moving ferrous metal objects such as cars, trucks or buses. The sensor can be buried in dirt adjacent to a paved roadway, or it can be placed in asphalt or concrete under the path of the vehicle. Each sensor provides a circular detection area approximately 15 feet (4.5m) in diameter, depending on the speed and size of the vehicle. Sensors can be located up to 5,000 feet (1520m) away from the Signal Processor - up to five sensors can be connected to each processor to expand the detection area.

The Vehicle Sensor System is an ideal addition to residential security. It can be used to turn on outside lights for arriving guests, departing guests, or both. When used in conjunction with an automatic gate opener, the Sensor System can provide access for vehicles while denying entry to pedestrians and animals. The sensors can be placed under vehicles such as farm implements or construction equipment to detect removal of the vehicle. They can be mounted vertically or horizontally on loading docks or in alleyways to provide notification of arriving vehicles. They can be used in conjunction with map displays to track vehicle movements in large parking lots after closing hours.

The versatile placement and application options of the Vehicle Sensor Systems provide for exceptional flexibility in system design.

System Description and Technical Specifications

D-373 Deluxe Vehicle Sensor System

This system consists of a sensor with up to 4,000 feet of direct burial cable attached, a signal processor, an interior metal enclosure with lock and two keys, and a plug in step-down transformer. The signal processor contains two relays that provide notification of vehicle detection through dry contacts (normally open and normally closed contacts available on the terminal strip). One of these relays has dry contacts rated for 10 amps @240VAC; this relay is usually used to control outside lighting. The other relay has contacts rated for 3 amps @12VDC. It is used to control low voltage circuits such as doorbells or buzzers, or to provide a dry contact closure for existing alarm panels or Home Automation interface modules. The latch time of each relay is independently set in the field to accommodate the requirements of the application. The Signal Processor can accommodate up to five sensors. Connections and a charging circuit for a 12V standby battery are also provided.

Technical Specifications

Input Power_____12VAC or 12VDC
Relay K1 Contact Rating_____3A @28VDC
Relay K2 Contact Rating_____10A @240VAC
Processor Temp. Range_____0 to 120F (-18 to 49C)
Remote + Output_____13.5VDC, 100ma, Reg.
Battery Charge_____13.5VDC, 500ma max
System Shipping Weight_____14 lbs (6.35Kg)

Current_____50ma (140ma alarm)
K1 Latch Time_____2 to 10 seconds
K2 Latch Time_____45 sec - 10 minutes
Sensor Temp. Range_____-30 to 150F (-34 TO 66C)
Sensor Size_____18" x 1 1/4"Dia.
Enclosure Size_____12" x 9 x 4.6"
Enclosure Rating_____Interior use **only**

D-376 High Value Vehicle Sensor System

This system consists of a sensor with up to 4,000 feet of direct burial cable attached, a sgnal processor, and a plug in step-down transformer. The signal processor contains one relay rated for 3 amps at 12VDC, and provides a normally open or normally closed dry contact for connection to a doorbell or buzzer. The relay latch time is either approximately 1 second or approximately 6 seconds at the discretion of the installer. Up to five Sensors can be connected to the Signal Processor. It is also available in a Low Current (LC), Unsupervised Relay (UR) and a 24VDC version.

General Specifications

Relay Contact Rating_____3A @ 28VDC
Processor Temp. Range____0 to120F(-18 to 49C)
Sensor Temp. Range_____-30 to 150F (-34 to 66C)

Relay Latch Time_____Approx. 1 or 6 seconds
Sensor Size_____18" x 1 1/4" Dia.
Processor Size_____4" x 4½" X 1½ H
System Shipping Weight_____8lbs (3.6Kg)

Power Specifications

PARAMETER	D376	D376LC	D376UR	D376-24DC
Input Power	12VAC/12VDC	11-14VDC	12VAC/12VDC	24VDC
Current, standby	60ma AC, 40ma DC	15ma	17ma AC, 14ma DC	15ma
Current, activation	17ma AC, 14ma DC	40ma	60ma AC, 40ma DC	40ma
+ DC Output	17VDC, 500ma, Unreg.	None	None	None

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