



MATRIX USER'S GUIDE

DIGITAL INDUCTIVE LOOP SENSORS

APPLICATIONS

The MATRIX Digital Inductive Loop Detector range is the ideal solution for parking barrier control, motorized gates and doors, vehicle access control and industrial control systems.

The MATRIX range is a high performance single or dual channel vehicle detector packaged in a compact housing, the operation is made with an industrial standard 11 pin round connector.

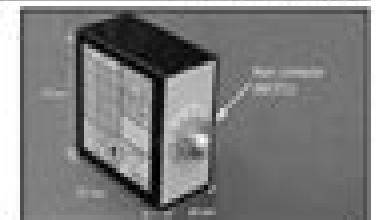
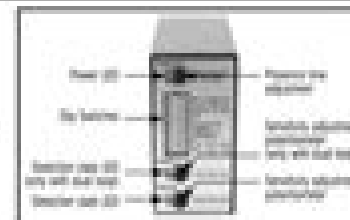
See versions listed below are available, single or dual channels, and 5 possibilities for the power supply :

- MATRIX-S110 : Single loop detector with 120 to 120 V AC power supply
- MATRIX-S120 : Single loop detector with 120 to 240 V AC power supply
- MATRIX-S11-24 : Single loop detector with 12 to 24 V AC/DC power supply
- MATRIX-D110 : Dual loop detector with 120 to 120 V AC power supply
- MATRIX-D120 : Dual loop detector with 120 to 240 V AC power supply
- MATRIX-D11-24 : Dual loop detector with 12 to 24 V AC/DC power supply

TECHNICAL SPECIFICATIONS

Technology	Inductive loop
Sensing	Automatic
Detection mode	Presence
Presence time	1 sec to infinity (permanent presence) with 250 steps 100 ms to 500 ms 20 µs to 1000 µs 20 ms to 1.00 s
Pulse time output	2 for dual loop for each loop
Inductance range	0.005% to 0.1% with 250 steps
Frequency range	20 ms to 1000 µs
Frequency steps	2 for dual loop for each loop
Resolution (V/L)	20 ms to 1000 µs
Reaction time	50 ms for dual loop (each channel)
Power supply (depending on model)	12-24 AC/DC <10% 120 V AC <10% 96 to 120 V AC <5% 48 to 12 V
Standby frequency	< 2.5 W
Power Consumption	< 2.5 W
Storage temperature range	-30°C to +70°C
Operating temperature range	-30°C to +70°C
Degree of protection (IP)	IP67
Output relays (line potential change-over contacts)	1 max contact voltage : 230 VAC 1 max contact current : 5A (maximum)
LED indicators	1 green (LED) : power 1 red (LED) : loop status 1 1 red (LED) : loop status 2
Protection	1 loop insulation transformer 1 power diode 1 gas discharge clamping
Connection	Standard 11 pin round connector (MCP1)
Dimensions	170mm (H) x 40mm (W) x 70mm (D)
Weight	< 200g
Product compliance	CE, RoHS, REACH, EN61326, EN61010-1, EN61010-2, EN61010-3, EN61010-4, EN61010-5, EN61010-6, EN61010-7, EN61010-8, EN61010-9, EN61010-10, EN61010-11, EN61010-12, EN61010-13, EN61010-14, EN61010-15, EN61010-16, EN61010-17, EN61010-18, EN61010-19, EN61010-20, EN61010-21, EN61010-22, EN61010-23, EN61010-24, EN61010-25, EN61010-26, EN61010-27, EN61010-28, EN61010-29, EN61010-30, EN61010-31, EN61010-32, EN61010-33, EN61010-34, EN61010-35, EN61010-36, EN61010-37, EN61010-38, EN61010-39, EN61010-40, EN61010-41, EN61010-42, EN61010-43, EN61010-44, EN61010-45, EN61010-46, EN61010-47, EN61010-48, EN61010-49, EN61010-50, EN61010-51, EN61010-52, EN61010-53, EN61010-54, EN61010-55, EN61010-56, EN61010-57, EN61010-58, EN61010-59, EN61010-60, EN61010-61, EN61010-62, EN61010-63, EN61010-64, EN61010-65, EN61010-66, EN61010-67, EN61010-68, EN61010-69, EN61010-70, EN61010-71, EN61010-72, EN61010-73, EN61010-74, EN61010-75, EN61010-76, EN61010-77, EN61010-78, EN61010-79, EN61010-80, EN61010-81, EN61010-82, EN61010-83, EN61010-84, EN61010-85, EN61010-86, EN61010-87, EN61010-88, EN61010-89, EN61010-90, EN61010-91, EN61010-92, EN61010-93, EN61010-94, EN61010-95, EN61010-96, EN61010-97, EN61010-98, EN61010-99, EN61010-100

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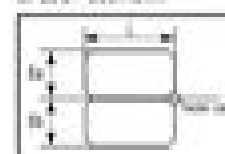


LOOP INSTALLATION

A. CABLE SPECIFICATIONS FOR LOOP AND FEEDER

- 1.3mm² cross section area
- Shielded cable
- Insulation material : PVC or Silicone
- For the feeder cable, the wire must be twisted at least 12 times to noise
- Feeder for long run used for fed screened cable is recommended (with equipment and wire)
- The feeder cable must be firmly fixed to avoid any false detection (max length : 100 m)
- Minimum cable length is required

B. LOOP GEOMETRY



- With two adjacent loops connected to a dual channel sensor, it is possible for these loops to share a common wire, if it is required. As the channels are independent, no interference will occur
- As for large loops or long feeder (over 100 m), the sensitivity will be affected

Frequency adjustment for loop A for single loop detector

Slip Switch F1	Slip Switch F2	Loop Frequency
OFF	OFF	High
ON	OFF	Mid-high (High - 25%)
OFF	ON	Mid-low (High - 25%)
ON	ON	Low (High - 50%)

Dual Loop Configuration A



Dual Loop Configuration B



LED SIGNAL

- 1 Green (LED) : power when the module is powered
- 2 Red (LED) : loop
- The corresponding loop detector state in normal situation
- The value of the excitation frequency measurement or an error message on power ON

In normal situation the red LED says ON as long as the loop detects any vehicle object.

On power ON the sensor measures the excitation frequency of each loop. The result of this measurement is displayed using the corresponding red LED. The amount of blinking indicates the new value of the frequency. For example 4 short flashes correspond to a frequency between 400 kHz and 450 kHz. After the message the red LED goes back to normal display. If the loop excitation frequency falls outside the limits at between 20 kHz and 120 kHz the red LED displays an error message and the sensor activates the corresponding relay. The blinking frequency shows the type of error according to the text table. The sensor will stay in this state until the problem is cleared and the frequency goes to the high range.

Remark : The sensor launches automatically a learning process if the excitation frequency changes more than 10% in comparison with the measurement value.

Loop frequency error	LED display
Excitation frequency too LOW or loop open	LED blinking at 1 Hz
Excitation frequency too HIGH	LED blinking faster at 2 Hz
Loop shorted or no excitation	LED blinking slower at 0.5 Hz

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECT ACTION
The loop detector will not work the green LED is off	There is no power supply to the loop detector	Check power supply
The loop detector will not work the red LED is flashing slowly (0.5 Hz)	The corresponding loop is shorted	Check the loop cable
The loop detector will not work the red LED blinks at either 2Hz or 1Hz	The frequency of excitation falls outside the planned range	Adjust frequency with dip switches or change loop type
The loop-LED is detecting properly but the contact is not made	Bad connection of the relay contacts	Check relay connections
Dip switches 5 to 8 are not responding properly	Their function varies according to dip switch F2 setting	Check the appropriate loop mode required and adjust dip switch F2

Matrix User Guide

Terry C. Jones



Matrix User Guide:

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ITS Sensors and Architectures for Traffic Management and Connected Vehicles Lawrence A. Klein,2017-08-07 An intelligent transportation system ITS offers considerable opportunities for increasing the safety efficiency and predictability of traffic flow and reducing vehicle emissions Sensors or detectors enable the effective gathering of arterial and controlled access highway information in support of automatic incident detection active transportation and demand management traffic adaptive signal control and ramp and freeway metering and dispatching of emergency response providers As traffic flow sensors are integrated with big data sources such as connected and cooperative vehicles and cell phones and other Bluetooth enabled devices more accurate and timely traffic flow information can be obtained The book examines the roles of traffic management centers that serve cities counties and other regions and the collocation issues that ensue when multiple agencies share the same space It describes sensor applications and data requirements for several ITS strategies sensor technologies sensor installation initialization and field testing procedures and alternate sources of traffic flow data The book addresses concerns related to the introduction of automated and connected vehicles and the benefits that systems engineering and national ITS architectures in the US Europe Japan and elsewhere bring to ITS Sensor and data fusion benefits to traffic management are described while the Bayesian and Dempster Shafer approaches to data fusion are discussed in more detail ITS Sensors and Architectures for Traffic Management and Connected Vehicles suits the needs of

personnel in transportation institutes and highway agencies and students in undergraduate or graduate transportation engineering courses NASTRAN User's Guide E. I. Field,1979 NASTRAN User's Guide (Level 17.5) ,1979

Handbook of Geriatric Care Management Cathy Cress,Cathy Jo Cress,2006-09 This cutting edge book on geriatric care management is designed to meet a growing area that spans across the continuum of health care and is the essential reference for the geriatric care management profession It gives health care delivery systems private and public health care practitioners business people and schools of nursing social work and related health care fields the definitive book on geriatric care management Handbook of Geriatric Care Management defines the work of the geriatric care manager It offers an overview of what geriatric care management is defines duties and procedures and specifies the organizations that use a geriatric care manager It provides guidelines for setting up a geriatric care management practice independently or as part of a larger health care delivery system or business and contains key elements for marketing the practice Several case studies are included NASTRAN User's Guide ,1975 The NASTRAN structural analysis system is presented This user s guide is an essential addition to the original four NASTRAN manuals Clear brief descriptions of capabilities with example input are included with references to the location of more complete information Mathcad User's Guide Mathsoft, Inc,1997

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