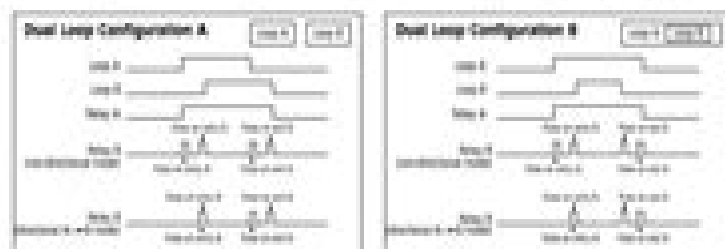


| Frequency adjustment for loop A for single loop detector |               |                       |
|--|---------------|-----------------------|
| Dip Switch F2  | Dip Switch F2 | Loop frequency        |
| OFF  | OFF           | High                  |
| ON   | OFF           | Mid-high (High - 25%) |
| OFF  | ON            | Mid-low (High - 25%)  |
| ON   | ON            | Low (High - 50%)      |



## LED SIGNAL

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

In normal situation the red LED shows 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 real value of the frequency. For example 4 short flashes correspond to a frequency between 400 kHz and 450 kHz. After the message the LED goes back to normal display. If the loop excitation frequency falls outside the limits at between 20 kHz and 130 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 last 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<br>The green LED is off                    | There is no power supply to the loop detector               | Check power supply   |
| The loop detector will not work<br>The red LED is flashing slowly (0.5 Hz) | The corresponding loop is shorted                           | Check the loop cable   |
| The loop detector will not work<br>The red LED shows at other 2 Hz or 2 Hz | 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 F20 setting   | Check the appropriate loop mode required and adjust dip switch F20 |



# 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.

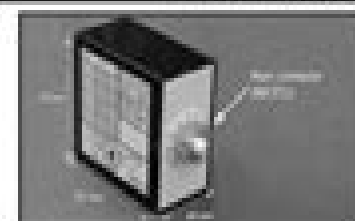
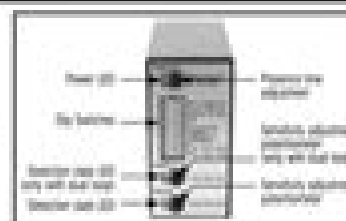
See versions listed below are available, single or dual channels, and 5 possibilities for the power supply:

- 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

|  |  |
|--|--|
| <b>Technology</b>  | Inductive loop   |
| <b>Setting</b>   | automatic  |
| <b>Detection mode</b>  | presence   |
| <b>Presence time</b>   | 1 sec to infinity (permanent presence) with 250 steps<br>100 ms to 500 ms<br>20 µs to 1000 µs<br>20 kHz to 130 kHz   |
| <b>Pulse time output</b>                                     | 4 for single loop  |
| <b>Inductance range</b>                                      | 2 for dual loop for each loop  |
| <b>Frequency range</b>                                       | 0.005% to 0.1% with 250 steps  |
| <b>Frequency steps</b>                                       | 20 ms for single loop<br>50 ms for dual loop (each channel)  |
| <b>Sensitivity (V/L)</b>                                     |  |
| <b>Reaction time</b>   |  |
| <b>Power supply (depending on model)</b>                     | 12/24 AC/DC <10%<br>120 V AC <10%<br>96 to 120 V AC <5%<br>48 to 60 V AC   |
| <b>Standby frequency</b>                                     | < 2.5 W  |
| <b>Power Consumption</b>                                     |  |
| <b>Storage temperature range</b>                             | -30°C to +70°C   |
| <b>Operating temperature range</b>                           | -30°C to +70°C   |
| <b>Degree of protection (IP)</b>                             |  |
| <b>1 Output relays (free potential change-over contacts)</b> | <ul style="list-style-type: none"> <li>• max contact voltage: 230 VAC</li> <li>• max contact current: 5A (maximum)</li> </ul>  |
| <b>LED indicators</b>  | <ul style="list-style-type: none"> <li>• 1 green (LED) - power</li> <li>• 1 red (LED) - loop status 1</li> <li>• 1 red (LED) - loop status 2</li> </ul>  |
| <b>Protection</b>  | <ul style="list-style-type: none"> <li>• loop insulation transformer</li> <li>• power fuses</li> <li>• gas discharge clamping</li> </ul>   |
| <b>Connection</b>  | standard 11 pin round connector (MCP1)   |
| <b>Dimensions</b>  | 170mm (H) x 40mm (W) x 70mm (D)  |
| <b>Weight</b>  | < 200g   |
| <b>Product compliance</b>                                    | 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 |

### DESCRIPTION OF THE IMAGE

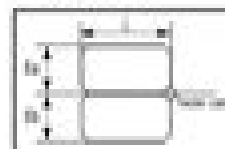


### LOOP INSTALLATION

#### A. CABLE SPECIFICATIONS FOR LOOP AND FEEDER

- 1.5mm<sup>2</sup> cross section area
- Shielded cable
- Insulation material: PVC or Silicone
- For the feeder cable, the wire must be twisted at least 12 times by hand
- Feeder for long runs 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 must be 10m

#### 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 larger loops or long feeder (over 100 m), the sensitivity will be affected

# Matrix User Guide

**Mathsoft, Inc**



## **Matrix User Guide:**

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