



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.

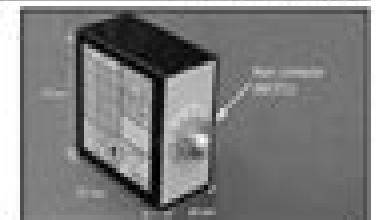
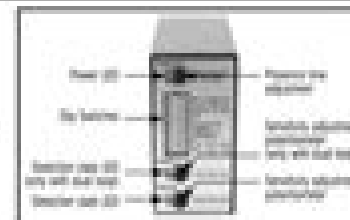
See versions listed below are available, single or dual channels, and 5 possibilities for the power supply :

- MATRIX-S11S : Single loop detector with 120 to 120 V AC power supply
- MATRIX-S12S : 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-D11S : Dual loop detector with 120 to 120 V AC power supply
- MATRIX-D12S : 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 5000 µs 20 ms to 1.00 s
Pulse time output	4 for single loop
Inductance range	2 for dual loop for each loop
Frequency range	0.005% to 0.1% with 250 steps
Frequency steps	20 ms for single loop 50 ms for dual loop (each channel)
Sensitivity (V/L)	
Reaction time	
Power supply (depending on model)	12-24 AC/DC <10% 120 V AC <10% 96 to 120 V AC <5%
Main frequency	40 to 60 Hz
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)	
1 Output relays (line potential change-over contacts)	
	• max contact voltage : 230 VAC • max contact current : 5A (maximum)
LED indicators	
	• 1 green (LED) : power • 1 red (LED) : loop status 1 • 1 red (LED) : loop status 2
Protection	
	• loop insulation transformer • power fuses • 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, EN61010-2-1, EN61010-2-2, EN61010-2-3, EN61010-2-4, EN61010-2-5, EN61010-2-6, EN61010-2-7, EN61010-2-8, EN61010-2-9, EN61010-2-10, EN61010-2-11, EN61010-2-12, EN61010-2-13, EN61010-2-14, EN61010-2-15, EN61010-2-16, EN61010-2-17, EN61010-2-18, EN61010-2-19, EN61010-2-20, EN61010-2-21, EN61010-2-22, EN61010-2-23, EN61010-2-24, EN61010-2-25, EN61010-2-26, EN61010-2-27, EN61010-2-28, EN61010-2-29, EN61010-2-30, EN61010-2-31, EN61010-2-32, EN61010-2-33, EN61010-2-34, EN61010-2-35, EN61010-2-36, EN61010-2-37, EN61010-2-38, EN61010-2-39, EN61010-2-40, EN61010-2-41, EN61010-2-42, EN61010-2-43, EN61010-2-44, EN61010-2-45, EN61010-2-46, EN61010-2-47, EN61010-2-48, EN61010-2-49, EN61010-2-50, EN61010-2-51, EN61010-2-52, EN61010-2-53, EN61010-2-54, EN61010-2-55, EN61010-2-56, EN61010-2-57, EN61010-2-58, EN61010-2-59, EN61010-2-60, EN61010-2-61, EN61010-2-62, EN61010-2-63, EN61010-2-64, EN61010-2-65, EN61010-2-66, EN61010-2-67, EN61010-2-68, EN61010-2-69, EN61010-2-70, EN61010-2-71, EN61010-2-72, EN61010-2-73, EN61010-2-74, EN61010-2-75, EN61010-2-76, EN61010-2-77, EN61010-2-78, EN61010-2-79, EN61010-2-80, EN61010-2-81, EN61010-2-82, EN61010-2-83, EN61010-2-84, EN61010-2-85, EN61010-2-86, EN61010-2-87, EN61010-2-88, EN61010-2-89, EN61010-2-90, EN61010-2-91, EN61010-2-92, EN61010-2-93, EN61010-2-94, EN61010-2-95, EN61010-2-96, EN61010-2-97, EN61010-2-98, EN61010-2-99, EN61010-2-100

DESCRIPTION OF THE IMAGE



LOOP INSTALLATION

A. CABLE SPECIFICATIONS FOR LOOP AND FEEDER

- 1.5mm² 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 runs used for fed screened cable is recommended (with a equipment and wire)
- The feeder cable must be firmly fixed to avoid any false detection (max length : 200 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 200 m), the sensitivity will be affected

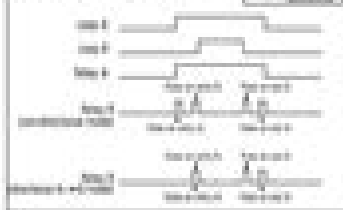
Frequency adjustment for loop A for single loop detector

Dip Switch F1	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%)

Dual Loop Configuration A



Dual Loop Configuration B



LED SIGNAL

- 1 Green (LED) : power when the module is powered
- 2 Red (LED) : loop
- 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 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 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 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

TROUBLE SHOOTING

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 shows a value 20% or 25%	The frequency of excitation falls outside the allowed 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 1 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

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Yijin Wang



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