



INDUCTION LOOP DETECTORS

MATRIX

SINGLE & DOUBLE

FEATURES

- The Matrix is available in multiple models to accommodate nearly any application.
- Available in single and double channel mode, with power supply configurations of 110 VAC or 12–24 V AC/DC.
- Compatible with most door and gate control applications
- Matrix detectors come in a compact housing with connection through an industrial 11-pin standard connector.
- Settings such as sensitivity and presence time are adjusted via potentiometers, so wide ranges and precise adjustments are made easy.

GATE OPENING AND SAFETY

- Activates and/or holds open a gate as soon as a vehicle enters or remains in its field of detection

INDUSTRIAL APPLICATIONS

- Activates and/or holds open an industrial door/gate as soon as a vehicle enters or remains in detection

PRODUCT FEATURES

- Potentiometers allow for fine tuning sensitivity and presence learn time
- Detection is not affected by long-term occupation of the loop
- Remembers settings upon power loss
- Separate sensitivity settings for dual channel Matrix D
- Automatic sensitivity boost to track the presence of high-bed vehicles
- Selection of presence and pulse outputs for additional functions

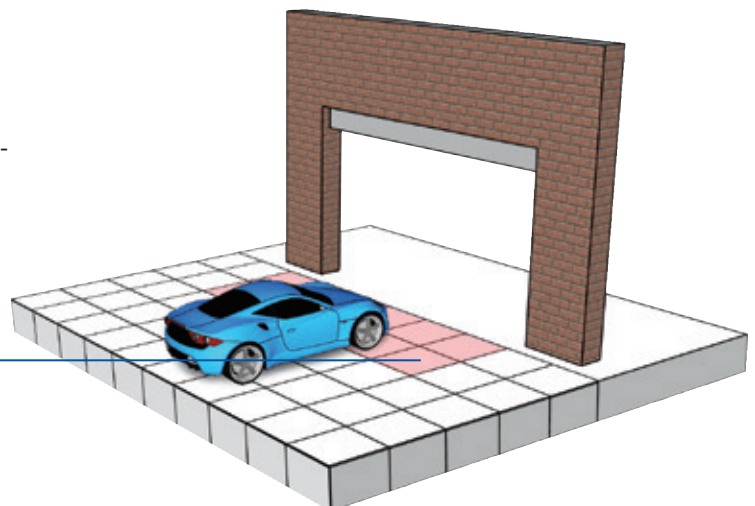
■ Matrix Sensing Field



COMPACT SAFETY SYSTEM

The Matrix is a series of single or double digital inductive loop detectors for vehicle access control and safety for doors, gates, and numerous other applications. High performance features include automatic sensitivity boost, presence and pulse output selection and four frequency settings.

DIGITAL INDUCTION LOOPS

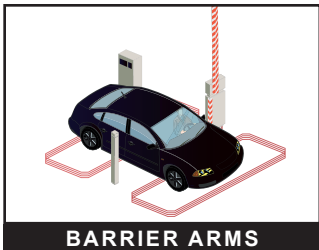


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BARRIER ARMS



INDUSTRIAL DOORS



SLIDING GATES



MATRIX HARNESS



GATELOCKS

APPLICATIONS

RELATED PRODUCTS

TECHNICAL SPECIFICATIONS

Technology	Digital Inductive Loop
Tuning	Automatic
Detection Mode	Presence
Presence Time	1 min to infinity (Permanent Presence) with 250 steps.
Pulse Time Output	100 ms or 500 ms
Inductance Range	20 µH – 1000 µH
Loop Frequency Range	20 KHz – 130 KHz
Frequency Steps	4 for single loop / 2 for dual loop (for each loop)
Sensitivity (DL/L)	0.005% – 0.5% with 250 steps
Reaction Time (each loop)	Single Channel : 25 ms / Dual Channel : 50 ms
Setup Time at Power-on	8 seconds Max. by channel
Setup Time After Configuration	2 seconds Max. by channel
Power Supply	12 – 24 AC/DC ± 10% 115 VAC ± 10%
Power Supply Frequency Range	48 – 62 Hz
Power Consumption	< 2.5W
Temperature Range	-22°F to +158°F (-30°C to +70°C)
Degree of Protection	IP40
2 Output Relays	Max. contact voltage: 230 VAC (Free potential change-over contact) Max. contact current: 5A (resistive)
LED Indicators	1 Green = Power On 1 Red = Channel Status 1 1 Red = Channel Status 2
Protections	Loop insulation transformer / Zener diodes / Gas discharge clamping
Connections	Standard 11-pin round connector 86CP11
Dimensions (WxHxD)	1 5/8" x 3" x 3"
Weight	< 7 oz.
Immunity	Electromagnetic Compatibility (EMC) according to 89/336/EEC and amendments.
Compliance	UL, CE, FCC

Specifications are subject to change without prior notice.

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