MATRX

Digital inductive loop detectors for vehicle access control and safety for **automatic gates**, **doors**, **parking barriers**...

MATRIX is a high performance single or dual channel vehicle detector packaged in a compact housing with connection through an industrial 11-pin round connector.

- MATRIX : single or dual channel detectors.
 Three power supply configurations (110, 220 V AC and 12-24 AC/DC)
- 2 MATRIX : wide sensitivity with continuous adjustment
- **MATRIX** : separate sensitivity settings in case of dual channel
- MATRIX : continuous setting of the presence up to unlimited time
- MATRIX : careful compensation of outside temperature to guarantee a safe detection in case of long term occupation of the loop
- MATRIX : up to four frequency settings to avoid any crosstalk between adjacent loops
- MATRIX : Automatic Sensitivity Boost to track the presence of highbed vehicles
- MATRIX : direction sensing feature of dual channel detector
- MATRIX : free selection of presence and pulse outputs
- MATRIX : ease of use through fine adjustments by potentiometers



Why does MATRIX look different ?





DESCRIPTION



PRODUCT RANGE

MATRIX-S110	Single channel detector 110 V AC
MATRIX-S220	Single channel detector 220 V AC
MATRIX-S12-24	Single channel detector 12 to 24 V AC/DC
MATRIX-D110	Dual channel detector 110 V AC
MATRIX-D220	Dual channel detector 220 V AC
MATRIX-D12-24	Dual channel detector 12 to 24 V AC/DC

TECHNICAL SPECIFICATIONS

Technology	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 to 1000 µH
Frequency range	20 to 130 kHz
Frequency steps	Single channel : 4 / dual channel : 2 (each loop)
Sensitivity (△L/L)	0,005 % to 0,5 % in 250 steps
Reaction time	Single channel : 25 ms / dual channel : 50 ms (each loop)
Setup time at power on	8 sec. max by channel
Power supply (depending on model)	12-24 AC/DC ±10%
	230 V AC ±10%
	115V AC ±10%
Mains frequency	48 to 62 Hz
Power consumption	< 2,5 W
Temperature range	-30° C to +70° C
Degree of protection	IP 40
Output	2 output relays (free potential change-over contact)
	max contact voltage : 230 VAC
	max contact current : 5A (resistive)
LED indicators	1 green LED : power
	1 red LED : channel 1 status
	1 red LED : channel 2 status
Protections	Channel insulation transformer
	Zener diodes
	Gas discharge clamping
Connection	Standard 11-pin round connector 86 CP 11
Dimensions	77 mm (high) x 40 mm (wide) x 75 mm (deep)
Weight	< 200 gr
Immunity	Electromagnetic compatibility (EMC) according
	to 89/336/EEC and its amendments
Compliance	UL

1 power on

- 2 presence time potentiometer
- 3 dip switches4 detection state LEDs
- 5 6 sensivity adjustment potentiometers



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APPLICATIONS





BEA PRODUCTS





MAT<mark>RIX</mark>