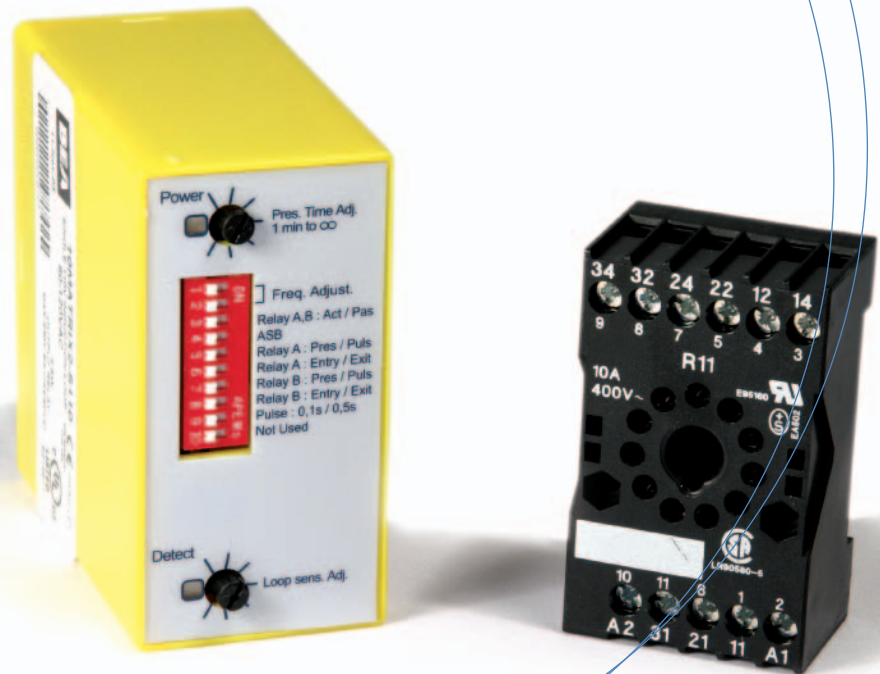


## BEA's digital inductive single loop solution

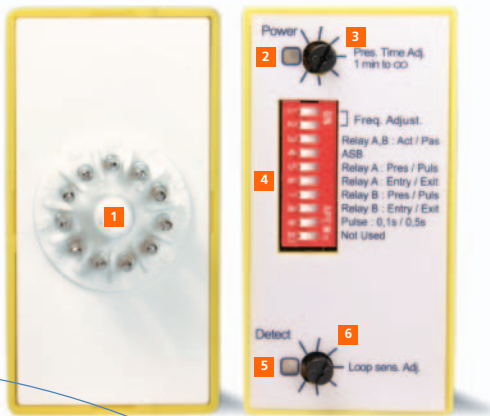


*With more standard features than any other loop detector on the market, the Matrix2-S has the flexibility, compatibility and performance to maximize productivity and safety on your site.*

**Try it NOW**

**The Future of Sensors, Now!**

- Matrix2-S is a series of digital inductive, single loop detectors for vehicle access control and safety for doors, gates, and numerous other applications. High performance features include :
  - > PRESENCE time adjustability up to INFINITY
  - > Selection of PRESENCE and PULSE outputs
  - > AUTOMATIC SENSITIVITY BOOST increases the sensitivity upon detection, and allows for continuous detection of high-bed vehicles
  - > Four frequency settings ensure NO CROSSTALK occurs between adjacent loops
  - > The microprocessed Matrix adjusts to OUTSIDE TEMPERATURES - detection is not affected by long-term occupation of the loop
- The Matrix2-S is available in two models to accommodate nearly any application
  - > Available in single channel mode, and power supply configurations of 110 or 220 volts AC, or 12-24 volts AC/DC, the Matrix is compatible with any door control or application you may encounter
- Unlike traditional DIP switches, the Matrix2-S's continuous mode adjustments allow for precise settings to match your application
  - > Settings such as sensitivity and presence are adjusted via potentiometer so wide ranges and precise adjustments are made easy



## Matrix Components

- 1 Main connector (86CP11)
- 2 Power LED
- 3 Presence time potentiometer
- 4 DIP switches
- 5 Detection state LED
- 6 Sensitivity adjustment potentiometer

## Matrix2-S 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 micro to 1000 micro
Frequency range	20 kHz to 130 kHz
Frequency steps	4 for single loop / 2 for dual loop (for each loop)
Sensitivity (DL/L)	0.005% to 0.5% with 250 steps
Reaction time	25ms for single loop
Setup time at power on	8 seconds maximum by channel
Setup time after configuration	2 seconds maximum by channel
Power supply	12-24 AC/DC $\pm$ 10% / 230 VAC $\pm$ 10% / 115 VAC $\pm$ 10% (depending on model)
Frequency range	48 to 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	<ul style="list-style-type: none"> <li>· Max contact voltage : 230 VAC (free potential change-over contact)</li> <li>· Max contact current : 5A (resistive)</li> </ul>
LED indicators	<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>
Protections	<ul style="list-style-type: none"> <li>· loop insulation transformer / Zener diodes / gas discharge clamping.</li> </ul>
Connection	Standard 11-pin round connector 86CP11
Dimensions	<ul style="list-style-type: none"> <li>· Height: 3" (77mm) / Width: 1 5/8" (40mm) / Depth: 3" (77mm)</li> </ul>
Weight	< 7 ounces
Immunity	electromagnetic compatibility (EMC) according to 89/336/EEC and its amendments

## Contact Information

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## Matrix2-S application



### Gate opening and safety:

The Matrix2-S will activate and hold open a gate (parking as shown above) as soon as a vehicle enters or stay in its field of detection.

### Industrial Door:

The Matrix2-S will activate and hold open an industrial door as soon as a vehicle enters or stay in its field of detection.



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