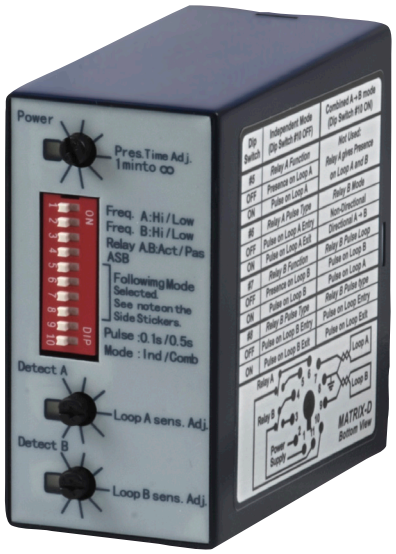
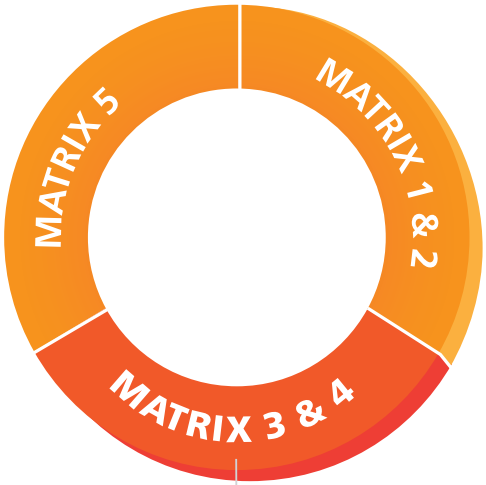
MATRIX 3

UL LISTED EURO SINGLE AND DUAL LOOP DETECTORS



PRIMARY APPLICATIONS



MATRIX 3 and 4

- Single/Dual Loop, Dual Relay
- Presence, PoExit, PoEntry
- Euro wiring and powering
- Failsafe modes
- Automatic boost sensitivity

DESCRIPTION

BEA's Matrix 3 provides vehicle detection via a single or dual loop. It may be used for entry, safety and exit loop detection.

The Matrix 3 is able to detect vehicle presence with pulse on entry and pulse on exit. It has two output relays and a European wiring configuration. It operates on 12 to 24 VAC/DC.

This loop detector features failsafe open, failsafe closed and automatic boost sensitivity. The unit has the ability to fine-tune both presence detection time and inductive sensitivity via two easy-to-use potentiometer adjustments.

The Matrix 3D includes a dual loop, dual input feature, which allows independent detection of Loop A and Loop B. This is advantageous in vehicle directionality and sequencing applications.

FEATURES & BENEFITS

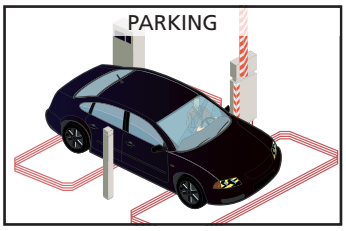
- UL Listed
- Available in single and dual loop models
- Available in operating powers of 110-120 VAC and 12 to 24 VAC/DC
- Two output relays
- Convenient European wiring configuration
- Automatic boost sensitivity
- Failsafe open and failsafe closed
- Ideal for vehicle directionality and sequencing applications
- Settings are adjusted via two easy-to-use potentiometers
- Pulse on entry and pulse on exit presence detection

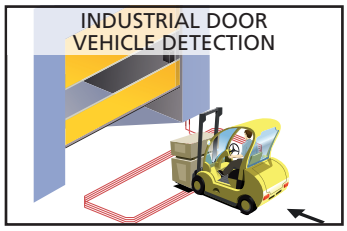
A HALMA COMPANY

BEA, Inc.
RIDC Park West
100 Enterprise Drive
Pittsburgh, PA 15275-1213

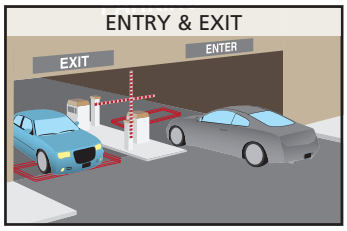
Customer Service: 800.523.2462
Technical Support: 800.407.4545
www.BEAsensors.com

APPLICATIONS









TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Wiring	Euro wiring configuration
Connector	11 pin male (86CP11)
Detection Modes	Presence, pulse on entry, pulse on exit
Detect Frequency Adjustments	8 settings, 20 KHz to 130 KHz
Inductive Range	20 - 1,000 mHenry
Setup Time (after power up/ configuration)	Approx. 8 sec., 2 sec/channel
Relay	Dual Relay
Maximum Contact Voltage	5 amps @ 230 VAC
Pulse Time Output	100 ms to 500 ms
Sensitivity (ΔL/L)	0.005% to 0.5%
Temperature	-22°F - 104°F
Features	Failsafe open, failsafe closed, automatic boost sensitivity, learn mode upon power up
Display	Power LED, 2x Detect LED (single, dual)
Norm Conformance	IP40, CE Listed, UL Listed EMC 2004/108/EC R&TTE 1999/5/EC
Weight	7 oz
Dimensions	1.5 in x 3 in x 3 in

10MATRIX3S-1224

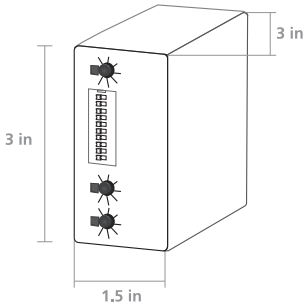
Power	12 - 24 VAC/DC
Loop Configurations	Single (1 loop input)
Reaction Time	25 ms

10MATRIX3D-1224

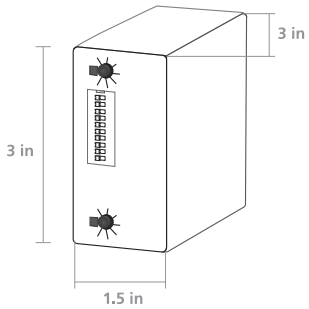
Power	12 - 24 VAC/DC
Loop Configurations	Dual (2 loop inputs)
Reaction Time	50 ms

DIMENSIONAL DRAWINGS

10MATRIX3S-1224



10MATRIX3D-1224



RELATED PRODUCTS



10MATRIX3S-1224
12-24 VAC/DC, SINGLE LOOP DETECTOR



10MATRIX3D-1224
12-24 VAC/DC, DUAL LOOP DETECTOR



10PS12-24
110-12 OR 24 VDC POWER SUPPLY



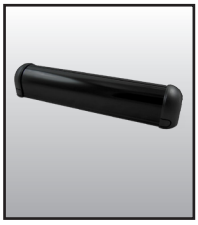
10MATRIXLP4X6
SINGLE LOOP COIL



10MATRIXLP4X8
DUAL LOOP COIL



10MATRIXHARN
11 PIN HARNESS



FOCUS
PRESENCE SENSOR



70.0262
11 PIN SOCKET BASED DIN RAIL

© 2015 BEA, Inc. All rights reserved.

BEA, Inc.
RIDC Park West
100 Enterprise Drive
Pittsburgh, PA 15275-1213

Customer Service: 800.523.2462
Technical Support: 800.407.4545

79.0223.05 20150610

A HALMA COMPANY