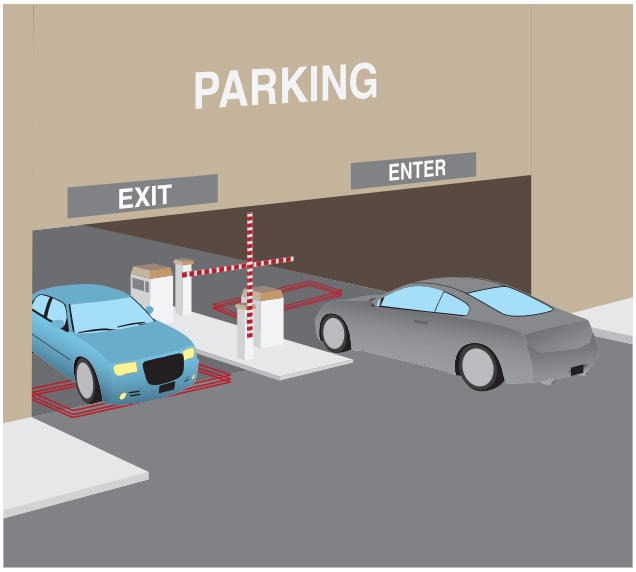
MATRIX 2

UL LISTED SINGLE CHANNEL LOOP DETECTORS



PRIMARY APPLICATIONS



DESCRIPTION

BEA's Matrix 2 provides vehicle detection via a single or dual loop. It may be used for entry, safety and exit loop detection.

The Matrix 2 is capable of detecting vehicle presence, pulse on entry and pulse on exit. It has two output relays and US wiring configuration. There are different power supply options including 110 to 120 VAC and 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.

FEATURES & BENEFITS

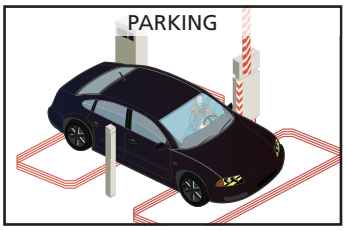
- UL Listed
- Available in operating powers of 110 to 120 VAC and 12 to 24 VAC/DC
- Two output relays
- Convenient US wiring configuration
- Automatic boost sensitivity
- Failsafe open and failsafe closed
- Ideal for vehicle directionality and sequencing applications
- Settings are adjusted via two easy-to-use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

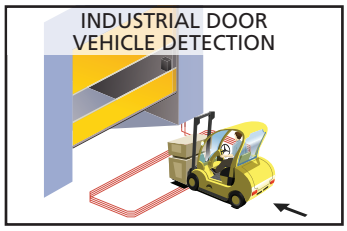
A HALMA COMPANY

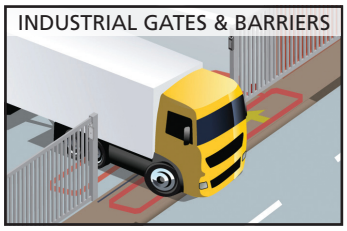
BEA, Inc.
RIDC Park West
100 Enterprise Drive
Pittsburgh, PA 15275-1213

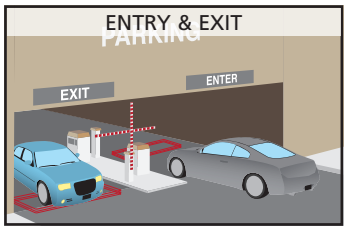
Customer Service: 800.523.2462
Technical Support: 800.407.4545
www.BEAinc.com

APPLICATIONS









TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Wiring	US wiring configuration
Connector	11 pin male (86CP11)
Detection Modes	Presence, pulse on entry, pulse on exit
Detect Frequency Adjustments	8 settings, Variable settings from 20 KHz to 130 KHz
Inductive Range	20 - 1,000 mHenry
Setup Time **(after power up/ configuration)**	Approx. 8 s, 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 - 158°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 and ANSI 156 compliant
Weight	7 oz
Dimensions	1.5 in x 3 in x 3 in

10MATRIXIIS110

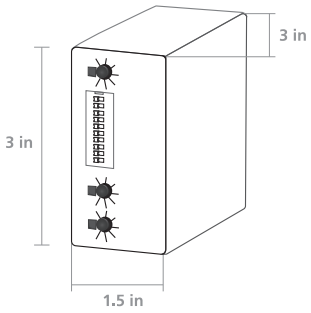
Power	110 - 120 VAC
Loop Configurations	Single channel (with 2 loop inputs)
Reaction Time	25 ms

10MATRIXIIS1224

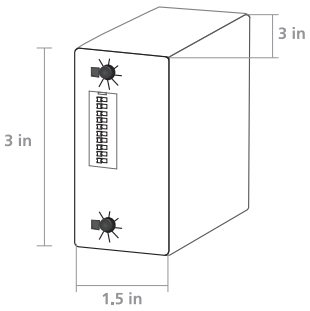
Power	12 - 24 VAC/DC
Loop Configurations	Single channel (with 2 loop inputs)
Reaction Time	25 ms

DIMENSIONAL DRAWINGS

10MATRIX2S-1224



10MATRIX2S-110



RELATED PRODUCTS



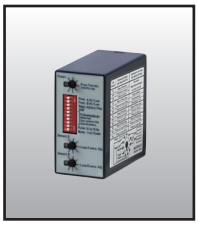
10MATRIXIIS110
110-120 VAC,
SINGLE
LOOP DETECTOR



10MATRIXIIS1224
12-24 VAC/DC,
SINGLE
LOOP DETECTOR



10MATRIXD110
110-120 VAC,
DUAL LOOP
DETECTOR



10MATRIXD1224
12-24 VAC/DC,
DUAL LOOP
DETECTOR



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



10MATRIXHARN
11 PIN
HARNESS



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

79.0222.09 20151009

A HALMA COMPANY