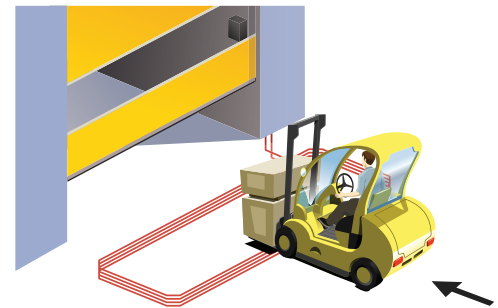


MATRIX FAMILY

UL LISTED LOOP DETECTORS



PRIMARY APPLICATIONS



DESCRIPTION

BEA's Matrix Family of induction loop detectors is designed for vehicle detection application in industrial environments.

These UL 508 listed loop detectors offer a wide range of features including automatic boost sensitivity (ABS), pulse on entry and pulse on exit.

The Matrix 3 provides learn on power up, as well as an independent dual loop detection setting.

The Matrix Family includes single and dual loop detectors with operating voltages of 110 – 120 VAC or 12 – 24 VAC / VDC, depending on model.

FEATURES & BENEFITS

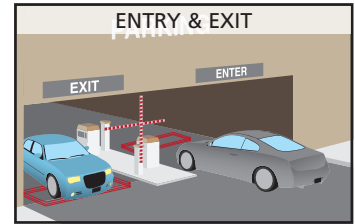
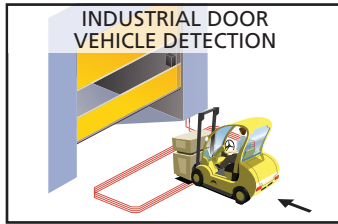
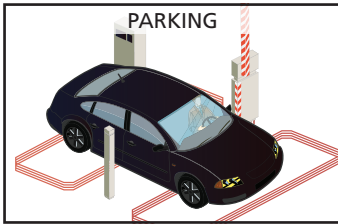
- UL Listed
- Available in single or dual loop models
- Two relay outputs
- Ideal for vehicle directionality and sequencing applications
- Settings are adjusted via two easy-to-use potentiometers
- Pulse on entry and pulse on exit presence detection



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

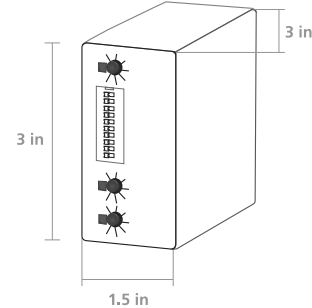
APPLICATIONS



TECHNICAL SPECIFICATIONS

| | |
|--|--|
| Tuning | Automatic |
| Connector | 11-pin male (86CP11) |
| Presence Time | 1 min – infinity |
| Pulse Time Output | 100 ms or 500 ms |
| LED Indicators | Power: Green Loop Status 1: Red Loop Status 2: Red |
| Frequency Range | 20 kHz – 130 kHz |
| Frequency Steps | Single Loop: 4 Double Loop: 2 (for each loop) |
| Sensitivity (ΔL/L) | 0.005% – 0.5% |
| Reaction Time | Single Loop: 25 ms Double Loop: 50 ms (each channel) |
| Setup Time After Configuration | 2 s max by channel |
| Power Supply (depending on model) | 12 – 24 AC / DC ±10% 115 VAC ±10% |
| Power Frequency | 48 – 62 Hz |
| Power Consumption | < 2.5 W |
| Temperature Range | –22 °F – 158 °F (–30 °C – 70 °C) |
| Protections | Loop Insulation Transformer Zener Diodes Gas Discharge Clamping |
| Inductance Range | 20 μH – 1000 μH |
| Connection | 86CP11 (Standard 11-Pin Round) |
| Relay Outputs | 2 (free potential change-over contact) 230 VAC 5 A (resistive) |
| Setup Time at Power On | MATRIXD/S: 8 s max by channel MATRIXIIS: 8 s max by channel MATRIX-3S: 1.6 s max by channel MATRIX-3D: 2.2 s max by channel |
| Norm Conformance | R&TTE: 1999 / 5 / EC EMC: 89 / 336 / EEC EMC: 89 / 336 / EE EMC: 2004 / 108 / EC FCC: 47 CFR 15 IC: RSS-210 ISSUE 5 UL Listed equipment for UL 508 |
| Degree of Protection | IP40 |
| Weight | 7 oz |
| Dimensions | 1.5 in (W) × 3 in (H) × 3 in (D) |

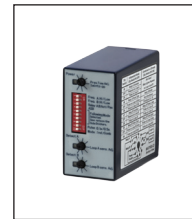
DIMENSIONAL DRAWINGS



RELATED PRODUCTS



10MATRIXD110
110 – 120 VAC,
DUAL LOOP
DETECTOR



10MATRIXD1224
12 – 24 VAC / VDC,
DUAL LOOP
DETECTOR



10MATRIXIIS110
110 – 120 VAC,
SINGLE
LOOP DETECTOR



10MATRIXIIS1224
12 – 24 VAC / VDC,
SINGLE
LOOP DETECTOR



10MATRIX-3-S
12 – 24 VAC / VDC,
SINGLE LOOP
DETECTOR



10MATRIX-3-D
12 – 24 VAC /
VDC, DUAL LOOP
DETECTOR



70.0262
11-PIN
SOCKET BASED
DIN RAIL



10PS12-24D
12 OR 24 VDC
POWER SUPPLY



10MATRIXHARN
11-PIN
HARNESS

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