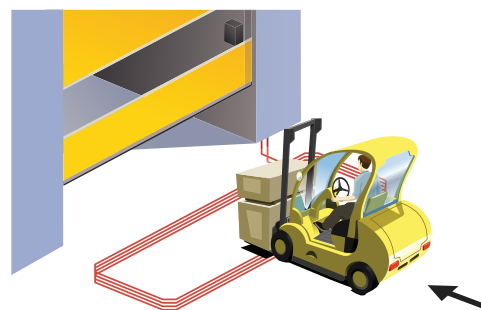


MATRIX FAMILY

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

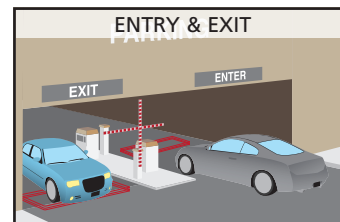
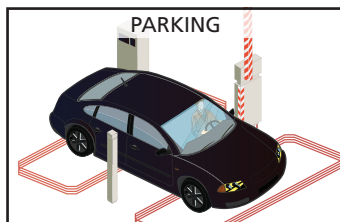
- UL Listed
- Available in single or dual loop models
- Two relay outputs
- Ideal for vehicle directionality and sequencing applications
- Settings are adjusted via two easy-to-use potentiometers
- Pulse on entry and pulse on exit presence detection



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

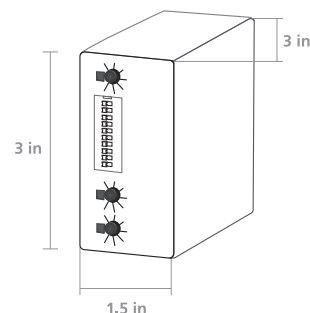
APPLICATIONS



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 ($\Delta L/L$)	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 $\pm 10\%$ 115 VAC $\pm 10\%$
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 μ H – 1000 μ H
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) $\times$ 3 in (H) $\times$ 3 in (D)

DIMENSIONAL DRAWINGS



RELATED PRODUCTS



10MATRIXD110
110 – 120 VAC,
DUAL LOOP
DETECTOR



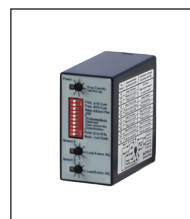
10MATRIXD1224
12 – 24 VAC / VDC,
DUAL LOOP
DETECTOR



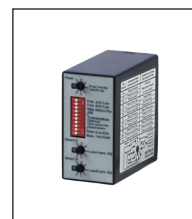
10MATRIXIIS110
110 – 120 VAC,
SINGLE
LOOP DETECTOR



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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