



MATRIX FAMILY

UL LISTED LOOP DETECTORS

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CERTIFICATIONS

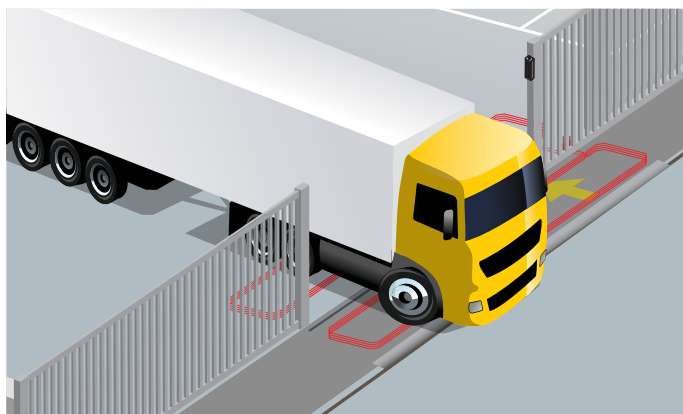


DESCRIPTION

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



Two Loop Models Available

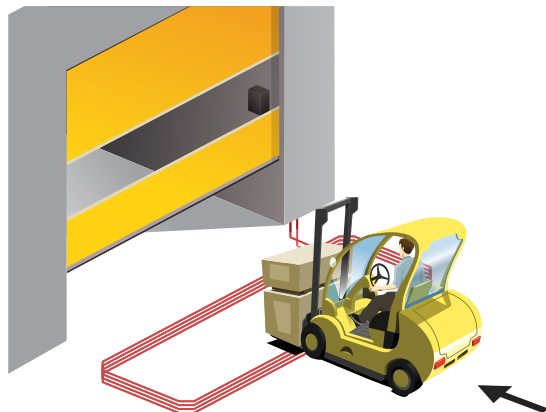
Available in single or dual loop models

Dual Outputs

Two relay outputs

Vehicle Detection, Direction And Counting

Ideal for vehicle directionality and sequencing applications



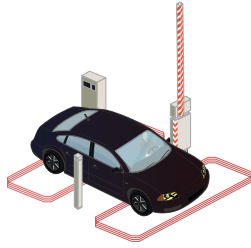
Easy To Adjust

Settings are adjusted via two potentiometers

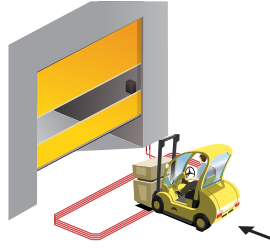
Feature Rich

Pulse on entry and pulse on exit presence detection

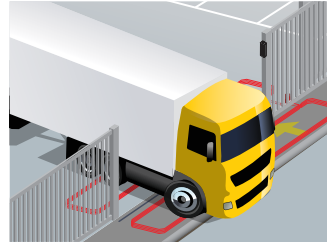
APPLICATIONS



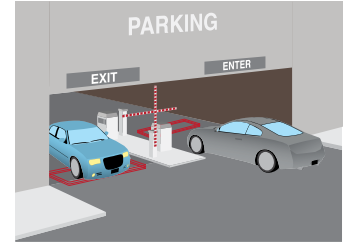
Parking Gates



Industrial Door Vehicle Detection



Industrial Gates & Barriers



Entry & Exit

TECHNICAL SPECIFICATIONS

Tuning	Automatic
Connector	11-pin male (86CP11)
Presence Time	1 min – infinity
Pulse Time Output	100 ms or 500 ms
LED Indicators	
Green	Power
Red	Loop Status 1 / Loop Status 2
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 – 158 °F (-30 – 70 °C)
Protections	Loop Insulation Transformer Zener Diodes Gas Discharge Clamping
Inductance Range	20 – 1000 μ H
Connection	86CP11 (Standard 11-pin Round)
Relay Outputs	2 (free potential change-over contact)
Max. Contact Voltage	230 VAC
Max. Contact Current	5 A (resistive)
Setup Time at Power On	8 s max by channel
Norm Conformity	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 1/2" (W) $\times$ 3" (H) $\times$ 3" (D)

PRODUCT SERIES



10MATRIXD110
110 – 120 VAC,
Dual loop detector



10MATRIXD1224
12 – 24 VAC / VDC,
Dual loop detector



10MATRIXIIS110
110 – 120 VAC,
Single loop detector



10MATRIXII1224
12 – 24 VAC / VDC,
Single loop detector



70.0262
11-pin Socket based
din rail



10MATRIXHARN
11-pin harness



10PSMDR2024
Power supply,
100 – 240 VAC, 24 VDC



10PSST242
Plug-in power supply,
24 V 2 AMP

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