

MATRIX FAMILY

UL LISTED LOOP DETECTORS







LEARN MORE

CERTIFICATIONS







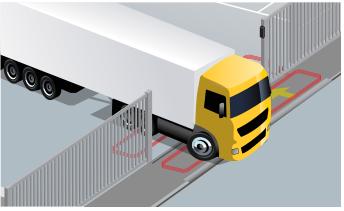
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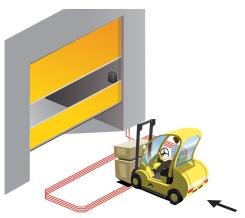
DESCRIPTION

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.





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

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 (ΔL/L)	0.005 – 0.5%
Reaction Time	25
Single Loop Double Loop	25 ms 50 ms (each channel)
Setup Time After Configuration	-
Power Supply	12 – 24 AC / DC ±10%
(depending on model)	115 VAC ±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 μΗ
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 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 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 ½" (W) × 3" (H) × 3" (D)
Difficilisions	1 /2 (**/ ^ 3 (11/ ^ 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



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



10PSMDR2024Power supply,
100 – 240 VAC, 24 VDC



10PSST242Plug-in power supply,
24 V 2 AMP



10MATRIXHARN 11-pin harness

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