



Edco SRA16C-1 Vehicle Loop Detection

The Edco SRA16C-1 is a three terminal device, two of which are connected across the signal inputs of the detector for differential mode protection, and the third is grounded to protect against common mode damage.

Differential mode surges (induced voltage across the loop detector input terminals) are clamped by a semiconductor array instantly. The array is designed to appear as very low capacitance to the detector.

Common mode surges (induced voltage between the loop leads & ground) are handled by a rugged three-element gas discharge tube which operates (fires) at 90 VDC and thereafter clamps the two loop leads to 30 volts in respect to ground. This design eliminates any ground noise from entering the loop detector and being amplified. The Edco SRA16C-1 is intended for all current detector models on the market.

Features

- Rugged gas tube protection
- Compatible with digital detectors
- 5 year warranty

General Technical Specifications

Part Number	Edco SRA16C-1
Operating Voltage	75 VDC
Clamping Voltage	90 VDC
Operating Current	NA
Peak Surge Current	10 kA
SPD Technology	GDT
Connection Type	Leads
Operating Temperature	-40°C to +85°C
Dimensions	1" Sq., Ht. 2" max
Mounting	No. 10 - 32 x 3/8" stud
Weight	3 oz

Installation

Mounting brackets are available for installing multiple units in the controller cabinet. The brackets are capable of mounting four or eight devices in-line. One Edco SRA16C-1 is used for each loop detector to be protected.

Units are installed as close as practical to the point where the detector loop wires enter the controller cabinet. Connect one of the flexible leads to each end of the loop. The common (bolt) connection on each Edco SRA16C-1 must be connected to earth ground.

Best performance is obtained by (1) shortening the flexible leads as much as possible, and (2) providing the lowest possible impedance to ground.

NOTE:

The Edco SRA16C-1W/LEADS (special order) is installed very similar to the standard unit except the common (bolt) is replaced with a green wire.



Edco MRA-6LC-6 Vehicle Loop Detection Protector

The Edco MRA-6LC-6 is a modular device utilizing solid state silicon foldover technology. The Edco MRA-6LC-6 is designed for any traffic controller cabinet equipped with 6 position, 5.08mm spacing sockets wired in line with load relay outputs.

Features

- Modular design
- Fits 6 position, 5.08mm spacing sockets
- Designed for digital detector
- Differential and common mode protection
- 5 year warranty

General Technical Specifications

Part Number	Edco MRA-6LC-6
Operating Voltage	75 VDC
Clamping Voltage	130 VDC
Operating Current	NA
Peak Surge Current	250A
SPD Technology	Silicon Breakover Device
Connection Type	6 position 5.08mm Euroblock
Operating Temperature	-40°C to +85°C
Dimensions (Inches)	2H x 0.7W x 1.5L

Weight

2 oz

Installation

One Edco MRA-6LC-6 is used for each two loop detectors to be protected.

Units are installed as close as practical to the point where the detector loop wires enter the controller cabinet.

Caution:

Installation and service should be performed by qualified technicians or service personnel.