

Sarasota

625X Detector



- Small size 3"H x 1.5"W x 3.5"L
- Failsafe or failsecure outputs
- Increased sensitivity
- Six selectable sensitivities
- Easy to use controls
- Second relay output mode selectable
 - Pulse on entry
 - Pulse on exit
 - Second presence output
 - Loop fault output
- 24 or 120VAC input
- Automatic sensitivity boost
- Current and historical loop fault indicators
- Compatible with existing equipment
- Automatic tuning
- Consistent presence time
- Made in U.S.A.

Peek Traffic - Sarasota is pleased to introduce the next generation detector, the Model 625X inductive loop detector for the parking and access control markets. The Model 625X is the next step in a long line of Sarasota detectors spanning over forty years in detector manufacturing. Incorporating the time tested Sarasota detection techniques with state of the art manufacturing has resulted in a new compact design that offers increased performance and compatibility with existing equipment.

The 625X is a single channel inductive loop vehicle detector designed for use in the access control market to provide vehicle presence information required by gate operators, ticket spitters, card readers, etc. Although compact and lightweight, the 625X is designed to operate in the most demanding high volume access control installations in all environmental conditions.

The 625X is a full performance detector that does not sacrifice features for the evolutionary reduction of size. Two outputs are available. One to provide the presence of a vehicle over the loop, the second is switch selectable to provide pulse on entry of the loop, pulse on exiting the loop, a second presence output or a loop fault output. Easy to use front panel slide switches provide positive identification of frequency and sensitivity settings.

Specifications

Inductance Range: 18 to 1800 microhenries
Automatically tuned

Frequency Range: 10 to 97 KHz

Temperature Range: -40°C to +80°C

Outputs: Presence and Relay2 are change over relay contacts rated at 250VAC, 5A, 150W/600VA max.
Optional: Optically isolated contact 50VDC 50mA

Lightning and Transient Protection:

Zener diode protection from over voltage induced on loop and feeder leads. Flash over protection from loop to earth. Protection exceeds NEMA specification.

Supply Power: 24VAC or 120VAC available. VA Rating 1.2VA

Relay2 Output: Relay2 Output Control Switch on back panel

SW3 SW2

OFF + OFF = Pulse on Entering the loop, 125mS ±25mS
ON + OFF = Pulse on Leaving the loop, 125mS ±25mS
OFF + ON = Second Presence Output
ON + ON = Loop Fault Output

Sensitivity: Six sensitivity settings are available using the 3-position front panel slide switch and switch 1 (SW1) on the back panel.

SW1 = OFF SW1 = ON
MAX = 0.04% MAX = 0.02%
MED = 0.16% MED = 0.08%
MIN = 0.64% MIN = 0.32%

Frequency: One of three operating frequency ranges can be selected with the front panel slide switch to eliminate crosstalk.

Reset: The Reset button must be depressed for three seconds for automatic retune. If depressed for less than three seconds, it will show loop faults as described below.

Loop Fault Indications:

If the 625X sees a loop fault (open loop, shorted loop or greater than a 25% inductance change), the Presence LED will flash at a 16Hz rate. If the fault condition corrects itself, the Presence LED and detector will resume normal operation. This historic fault can be displayed by depressing the Reset button. The Presence LED will flash at 16Hz rate to indicate a fault has occurred. When the Reset button is released, the detector will resume normal operation within three seconds.

Detector Failure Conditions:

Two factory set options are available.

1. Failsafe (Standard) when supply or loop fails.
 - a. Presence output falls into detect state.
 - b. Relay2 output falls in the quiescent state.
2. Failsecure when supply or loop fails.
 - a. Presence output falls in the quiescent state.
 - b. Relay2 output falls in the quiescent state.

Presence Time: 60 minutes standard. Options: 8, 16 minutes or permanent

Dimensions: 3"H x 1.5"W x 3.5"L excluding connector

Connections

Pin	Function	Wire Color
1	120 VAC (24 VAC option)	Black
2	AC Neutral Common	White
3	Relay2 N.O.	Orange
4	Chassis Ground	Green
5	Presence Relay Common	Yellow
6	Presence Relay N.O.	Blue
7	Loop	Gray
8	Loop	Brown
9	Relay2 Common	Red
10	Presence Relay N.C.	White/Black
11	Relay2 N.C.	White/Red

Contacts are shown in the "NO VEHICLE PRESENT" condition with power applied and loop connected to the detector.

Ordering Information

Standard order as 625X

Input Supply - 120 VAC or 24 VAC
Failure Mode - Failsafe or Failsecure
Presence Time - 8, 16, 60 (standard) minutes or permanent

Operating Instructions

1. Verify the harness is wired per the connection chart and the input voltage is correct.
2. Set the Relay2 Output Control (switches 3 and 2 on the back panel) to the desired function.
3. Set switch 1 on the back panel to the OFF position and SENS switch to MIN setting.
4. Plug in detector. It will automatically tune.
5. Observe vehicle detections on the PRESENCE LED. If vehicles are not detected, increase sensitivity until detection occurs.
6. If crosstalk with an adjacent loop occurs, use the FREQ switch to change the operation frequency.



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