



MODEL 625X

INDUCTIVE LOOP DETECTOR

VEHICLE DETECTION

The Model 625X inductive loop detector from Peek Traffic Corporation is designed for the parking and access control markets. After more than 40 years in the traffic control industry, Peek's Model 625X detector is the latest in the company's long line of reliable, full-featured detectors. Time-tested detection techniques combined with state-of-the-art manufacturing result in a compact unit that offers increased performance and compatibility with existing equipment. The 625X detector is a single-channel inductive loop vehicle detector that provides 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 detector 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.

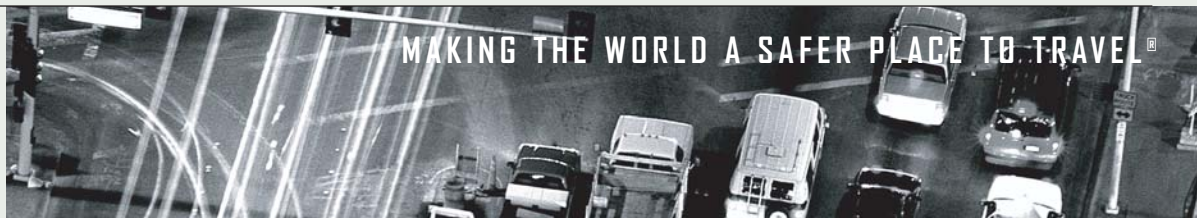


FEATURES

- ▶ Small size 3"H x 1.5"W x 3.5"L (76 x 38 x 89 mm)
- ▶ Failsafe or failsecure outputs
- ▶ Increased sensitivity
- ▶ Six selectable sensitivities
- ▶ Easy to use controls
- ▶ Second relay is 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

SPECIFICATIONS

Characteristic	Description
Inductance	18 to 1800 μ H (Tuned automatically)
Frequency Range	10 to 97 kHz
Temperature Range	-40°F to +176°F (-40°C to +80°C)
Outputs	Presence and Relay2 are changeover relay contacts rated at 250VAC, 5A, 150W/600VA max. Optional: Optically isolated contact 50VDC 50mA
Lightning & Transients Protection	Zener diode protection from over voltage induced on loop and feeder leads. Flash over protection from loop to earth. Protection exceeds NEMA specification.



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SPECIFICATIONS (CONTINUED)

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

Relay 2 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

SensitivitySix sensitivity settings are available using the 3-position front panel slide switch and switch 1 (SW1) on the back panel.
MAX = 0.04% **MAX** = 0.02%
MED = 0.16% **MED** = 0.08%
MIN = 0.64% **MIN** = 0.32%

Frequency Setting.....One of three operating frequency ranges can be selected with the front panel slide switch to eliminate cross talk.

ResetThe 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 IndicatorsIf the 625X sees a loop fault (open loop, shorted loop or greater than a 25% inductance change), the Presence LED flashes at a 16Hz rate. If the fault condition corrects itself, the Presence LED and detector resume normal operation. This historic fault can be displayed by depressing the Reset button. The Presence LED flashes at 16Hz rate to indicate a fault has occurred. When the Reset button is released, the detector resumes normal operation within 3 seconds.

Presence Time60 minute standard
Options: 8, 16 minutes, or permanent

Dimensions3"H × 1.5"W × 3.5"L (w/o connector)

Detector Failure Condition..Two factory set options are available:
Failsafe (Standard) when supply or loop fails. Presence output falls into detect state. Relay2 output falls in the quiescent state.
Failsecure when supply or loop fails. Presence output falls in the quiescent state. Relay2 output falls in the quiescent state.

CONNECTIONS

Pin	Function	Wire Color
1	AC Live (DC Positive)	Black
2	AC Neutral (DC 0V)	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, 24 VAC, 12 VDC, 24 VDC
Failure Mode: Failsafe or Failsecure
Presence Time: 8, 16, 20 (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 cross-talk with an adjacent loop occurs, use the FREQ switch to change the operation frequency.



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Specifications are subject to change without notice to reflect improvement and upgrades.

