

# PROSCAN

ACTIVE INFRARED THRESHOLD PRESENCE SENSOR

ProScan-V2-2001 1/01

**ProScan** is an Active Infrared Sensor for detecting the presence of persons in threshold and sidelight areas of automatic doors and in elevator cars. The unique "Fan Pattern" utilizes 12 separate AIR beams to create a wedge shaped pattern. ProScan automatically adapts to different installation and mounting positions. Each separate light beam learns its own reception level. There is no need to set the sensitivity level manually.

**Detection Field Adjustments** – The detection field can be manually adjusted to 4 separate patterns: left field, right field, center field and full field. (See specification table).

**Mounting Options** – ProScan is designed to be mounted in a stationary position on or in the header of an automatic sliding door. It is not designed to be mounted on moving doors. Fluorescent and Low-E bulbs may affect the function of the ProScan if they are in the direct line of sight of the sensor. When mounting several ProScan sensors in a row and the detection fields overlap, there is a minimum mounting height requirement of 60". When recess mounting the ProScan the use of an additional lens may affect the function of the sensor.

**Initialization and teach-in phase** – During the teach-in phase the LED indicator flashes and the output is inactive. Four seconds after a stable background has been detected the teach-in phase is complete and the LED turns off. This value is stored as the reference value and the ProScan is ready to operate. The ProScan automatically adapts to and ignores stationary, non-transparent lateral walls and/or fixed objects.

**The briefcase function** – This function is best explained with the following example: if a briefcase is placed within the detection field and left unattended the sensor will adapt to it with a new teach-in phase. When the briefcase is subsequently removed the ProScan recognizes the former original background and thus does not require a new teach-in phase. The time value of the adaptation phase is selectable with two options. Either 10 seconds or 180 seconds.

**Compensation for long term drift** – ProScan automatically compensates for external factors such as temperature fluctuations, contamination of the lens surface or changes in the floor conditions due to snow, rain etc.

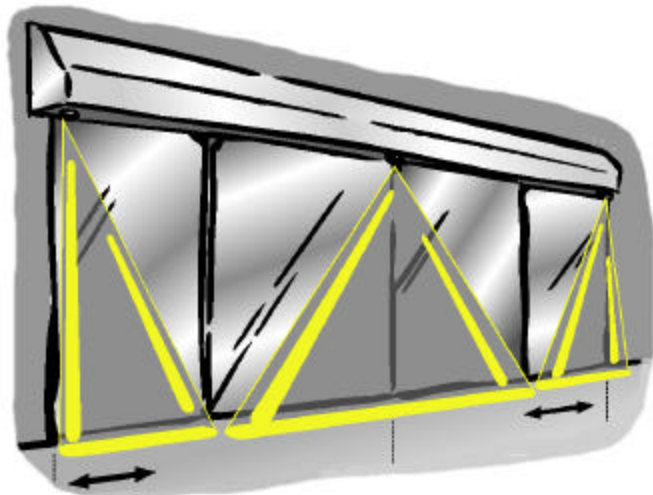
- ◆ For Superior Presence Detection in the threshold and sidelight areas of Automatic Sliding Doors, Folding Doors and Elevators.
- ◆ Self Adjusting, hassle free startup.
- ◆ Uses 12 independent IR beams to scan a precise area.
- ◆ Automatically adapts to changing floor conditions.
- ◆ Multiple units can be utilized to cover an entire entrance way.
- ◆ Compact design allows for easy recess or external mounting.
- ◆ Relay or PNP output available.



ProScan Active Infrared Presence Sensor.



Detection Field



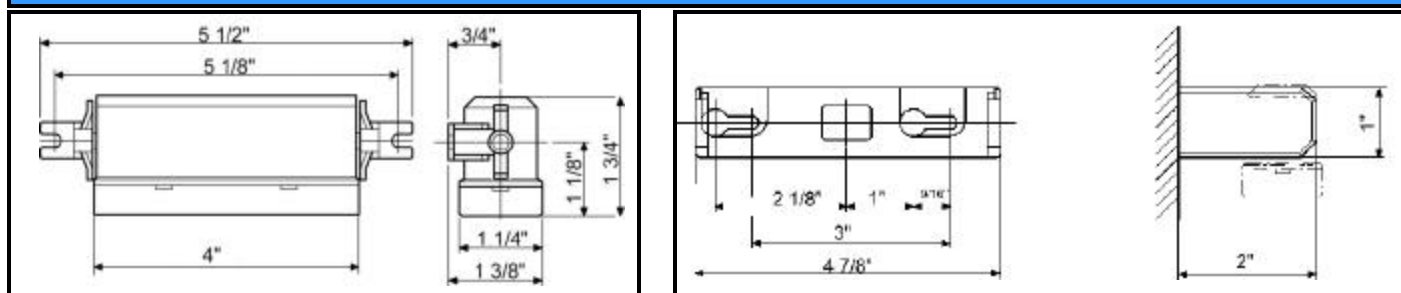
**User select-able fields:**

Center field dimension W= 39" min. to 82" max. x Depth = 3"  
 L/R field dimension W= 39" x Depth = 3"

## PROSCAN TECHNICAL DATA

Field dimensions	Maximum W=82" x D=3" (At mounting height of 78 3/4")	Adjustable with jumper pins
Mounting height	Max. - 98" / Min. - 39"	Height affects field dimensions
Detection range	Up to 98"	Light spot dia = 3" at full range
Aperture angle	Approx. 2.2° x 60°	Optics surface = PMMA
Response time	Approx. 50 ms.	
Type of light	Active infrared / Pulsed alternating light	12 transmitters
Operating voltage	12-24 VAC or DC (-0% / +15%)	
Power consumption	Approx. 3W / 3VA	
Current consumption	Max. 100 mA	
Signal output	Relay - 1x potential free N/O contact - switching voltage 48 V AC - switching current 1 A/24 V DC - switching capacity 24 W/55 VA Electronics output - 1 PNP transistor short circuit proof - switching voltage 30 V DC - switching current 200 mA	
Relay hold time	Approx. 200 ms.	
Switching mode	Active N/C / Passive N/O	Adjustable with jumper pins
Function indication	Red LED	Flashes during teach-in / Lights on activation
Auto-adapt period	10 s or 3 minutes, switch-able	
Connection type	5-pin plug	Cable L=16'
Protection class	IP 52 / NEMA 12	
Housing material	ABS	
Operating temperature	-4°F to 140°F	
Electromagnetic compatibility	CE According to EMC guideline 89/336 EEC & FCC reg.	EN 50081-1/EN 50082-2
Weight	Approx. 3.5 oz.	Without cable

### Dimensions of the ProScan



### Ordering Information

Product	Features	Order Code
ProScan 31/76a includes swivel bracket, mounting bracket & cable L= 118"	Relay output, Test input +UB	53001
ProScan 31/76b includes swivel bracket, mounting bracket & cable L= 118"	Relay output, Test input GND	53002
ProScan 32/76a includes swivel bracket, mounting bracket & cable L= 118"	PNP output, Test input +UB	53003
ProScan 32/76b includes swivel bracket, mounting bracket & cable L= 118"	PNP output, Test input GND	53004

### Connection Diagram

