

Schindler Progard L

Touch-free Light Curtain Entrance Protection



User Comfort and Safety

Progard L adds to elevator doors an outstanding combination of passenger reassurance and enhanced security. Progard L will immediately reverse a closing elevator door if even the smallest object, such as a finger, moves into its path.

This immediate response occurs whatever the stage of door travel. Progard L is not dependent on proximity to the blocking object for operation, so no personal threat or moment of doubt is experienced by a person crossing the door threshold.

Features and Benefits

Simple, robust and reliable.

Very popular with users.

Fast acting - 0.15sec response time.

More damage resistant than mechanical leading edge devices.

Operating redundancy - even with 2 sensors disabled the system remains fully operational.

Easy diagnosis - push button test box is available.

Minimal maintenance - transmitters are continuously self calibrating and adjusting for ambient light level variations.

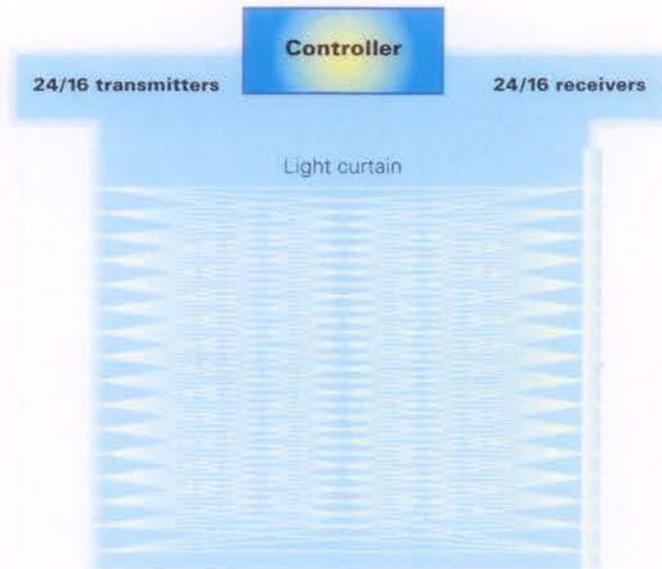
Suitable for modernizing a wide range of existing installations.



Operation

A vertical line of optical transmitters on one side of the door faces a similar vertical line of receptors on the opposite side. A high frequency invisible strobe of light pulses passes from each transmitter in turn, and each pulse is registered by several of the facing receptors. The result is an intermeshing web of light paths, starting from within 20 mm of the floor, rising to 1600 mm in height.

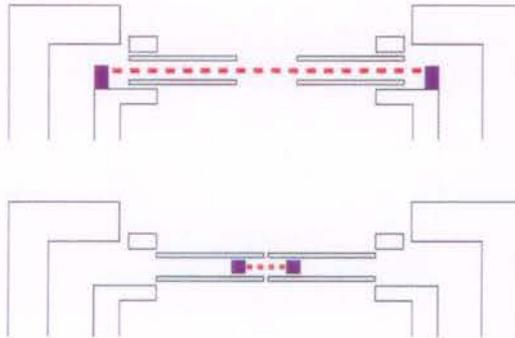
If any single one of these light paths is broken the safety trigger is activated.



Progard L Variants

Two variants of Progard L - one static, one dynamic - assure maximum applicability.

- Progard LVH16s is mounted statically onto the body of the car. It is easily interfaced with many existing cars and controllers.
- Progard LVH24d is mounted dynamically on the leading edges of the car doors. Since the beams are in motion with the car door a more active scan is achieved.



SPECIFICATIONS	Operating principle	Multiple light beam curtain		
	Output transmitter	relay 24V 2A		
	Power supply: voltage consumption	24V DC 25% < 150mA		
	Area of active scan: vertical horizontal	20 » 1600 mm 500 » 8000 mm 0 » 6000 mm	Progard L static Progard L dynamic	
	Ambient conditions temperature	-20°C » +60°C		



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The Elevator and Escalator Company