

ACTIVE INFRARED SENSORS

Brief descriptions and data sheets

APPLICATION

- Active infrared presence detectors for detecting vehicles , for detecting direction of movement and for monitoring of sensitive areas

FEATURES

- Active infrared triangular reflection light scanner with suppression of the foreground or background signal
- Insensitive to air turbulence, external light, sunlight and all weather conditions (snow, rain and fog)
- Precise geometric delimitation of the monitored area

The vehicle detector FLG reliably detects vehicles (or persons and objects) between two scanned spatial cones.

Due to the active operating principle, one of the two direction-dependent signal outputs is activated **without a time limit** as long as the vehicle remains in the monitored area.

This means that the detector can be used universally **for presence detection with or without direction detection**. Typical examples of such applications are:

- Train end control
- Switching on security monitors on platforms when a train enters the station area.
- Signalling of the approach of ships to locks, particularly those with swinging gates.
- Control of gates and other barriers at vehicle entry points.
- Use at level crossings with half-way gates as a low-cost and effective method of detecting the entry of vehicles into the gate area when closing is started and also the complete exit of vehicles from the area.

The vehicle detector FLG is an infrared reflection light scanner with suppression of the background signals, i.e. the vehicle or the detected object acts as the reflector.

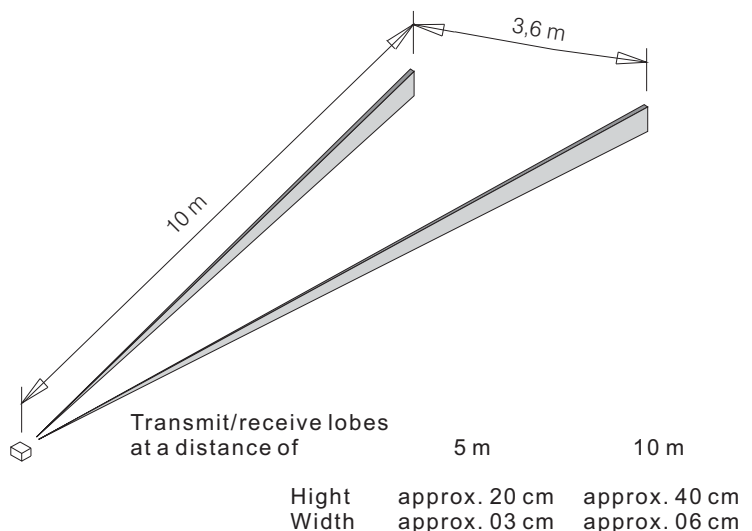
The detection range, and thus the effectiveness of the background suppression, can be adjusted by the user over a wide range with a simple control.



Infrared - Presence Detector FLG 10-20

TECHNICAL DATA FLG 10-20

Detection range	0,5... 10 m, depending on the reflective properties
Signal outputs	result of vehicle detection
Outputs	direction-dependent potential-free relay contacts, changeover
Supply voltage	1 A / 30 VDC or 0.5 A / 125 VAC
Current consumption	10 ... 30 VDC, optional: 230 VAC
Ambient temperature	approx. 65 mA
Protection degree	-25 bis + 60 °C
Window heater	IP 66
Weight	controlled by thermostat
Dimensions	approx. 2,5 kg
Case	length 220 mm
	width 180 mm
	height 130 mm
	light-alloy, painted grey



ORDERING INFORMATION

FLG - 10/20 : Vehicle detector, range 10 m
Please indicate power supply,
other reaches and detection ranges on request