

TREK-134

Ultra-Wide (180°) Blind Spot Detection Module

NEW



Features

- 180° ultra-wide detection field
- Real-time visual and audio alarm notifications warn of potential collisions
- Video-based analytics that enable real-time visualization
- AHD 720 high-definition camera
- HDR imaging ensures high-quality clear images
- Camera images/video can be output to a display
- Vehicle-grade design
- Wide operating temperature range (-30 ~ 85 °C/-22 ~ 185 °F)
- IP68 rating for protection from water and dust ingress
- MIL-STD-810G and EN60721 (5M3) certified for shock and vibration tolerance
- Easily paired with any in-vehicle computing terminal via a single-cable connection

Introduction

The TREK-134 blind spot detection module is an in-vehicle vision-based safety solution that uses image recognition technologies and algorithms as well as real-time visual and audio alarm notifications to warn of potential collisions. Designed for installation in trucks, buses, and heavy-duty vehicle fleets, TREK-134 features an AHD 720 camera with a 180° ultra-wide viewing angle that can detect various moving objects, including pedestrians, cyclists, motorcycles, vehicles, and medium-sized animals. Moreover, the AHD 720 camera supports high dynamic range (HDR) imaging to ensure clear and accurate imaging even in direct sunlight or poorly lit environments.

Specifications

Intelligent Video Analysis	Object Proximity Detection	Object size: 30 x 30 x 80 cm ³
	Detection Angle	≤180°
Electrical Interface	Camera Sensor	CMOS type, 720 p@30 fps resolution, 74.8 dB dynamic range, 170° field of view
	I/O	1 x CVBS output (Male) for video-out, TX/RX, and ACC/GND (open wire)
	Power Input	Supports 12/24 V vehicle power, 9 ~36 V _{DC} , with ISO-7637-II compliance
	Power Consumption	7.2W typical (input current <600 mA@ 12 V)
Environment	Operating Temperature	-30 ~ 85 °C (-22 ~ 185 °F)
	Storage Temperature	-40 ~ 105 °C (-40 ~ 221 °F)
	Operating Humidity	30 ~ 80% @ 40 °C/104 °F
	IP Rating	IP68
	Vibration/Shock	MIL-STD-810G, EN60721 (5M3)
Certification	Drop Tolerance	Up to 1.0 meter on concrete
	EMC	FCC/CE/CCC
	Safety	UL/cUL/CB
Mechanical	Dimensions (W x H x D)	40.5 x 28.5 x 38.25 mm (1.59 x 1.12 x 1.5 in)
	Weight	85 g (0.18 lb)
	Protective Cover (Optional)	2-mm stainless steel with coating (106 x 60 x 60 mm/4.25 x 2.36 x 2.36 in)

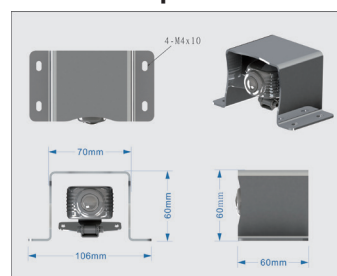
Note: The TREK-134 module must be paired with vehicle diagnostics data to enable visual and audio alarm notifications.

Dimensions

TREK-134



TREK-134 with protective cover



Disclaimer

1. Environmental conditions, such as backgrounds with corrugated or repeating patterns, and obstructions to the camera sensor may trigger false warnings.
2. The presence of dirt or moisture on the camera can affect recognition accuracy.
3. TREK-134 only emits alarm notifications when an object is within the detection area. The module does not provide automated emergency braking functions.
4. TREK-134 only notifies drivers of potential collisions. It does not replace any functions drivers would ordinarily perform when driving, nor does it eliminate the need to remain vigilant and alert at all times, to conform to all safe driving standards and practices, and to obey all traffic regulations.

Ordering Information

Part Number	Description
TREK-134-FL01A0E	TREK-134 (front) module with 2-meter cable
TREK-134-BH01A0E	TREK-134 (rear) module with 2-meter cable
TREK-134-LH01A0E	TREK-134 (left) module with 2-meter cable
TREK-134-RH01A0E	TREK-134 (right) module with 2-meter cable

Optional Accessories

Part Number	Description
TREK-134-CH01A0E	TREK-134 protective cover