PRESENCE

HOW WE BUILT TRUST



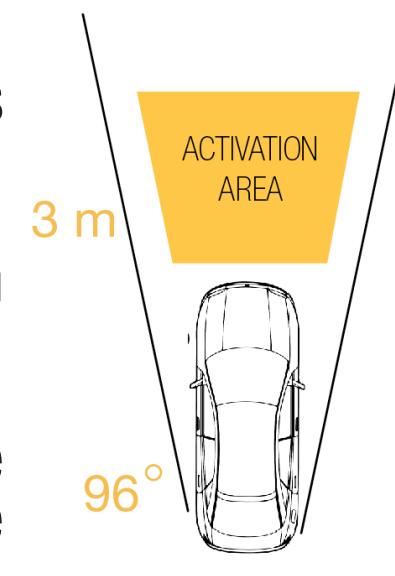
The Footrest

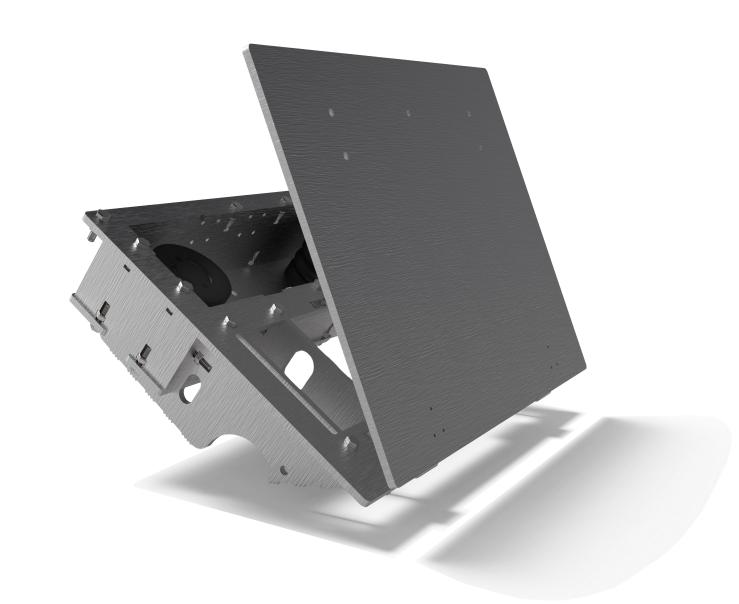


DATA
Model: PM/31022 Pneumatic Bellow
Stroke: 45 mm
Working height: 105 mm
Nominal Ø: 2 3/4"
Holding Force: 170 lb
Input Air Pressure: 1 bar - 6 bar
Company: Norgren

HOW IT WORKS

The moving footrest is controlled by two air-bellows inside the 1/4" al-3 muminium structure. When an object enter the activitation area pneumatic valves will blow up the belows and gently move the footrest 1/2" upward.





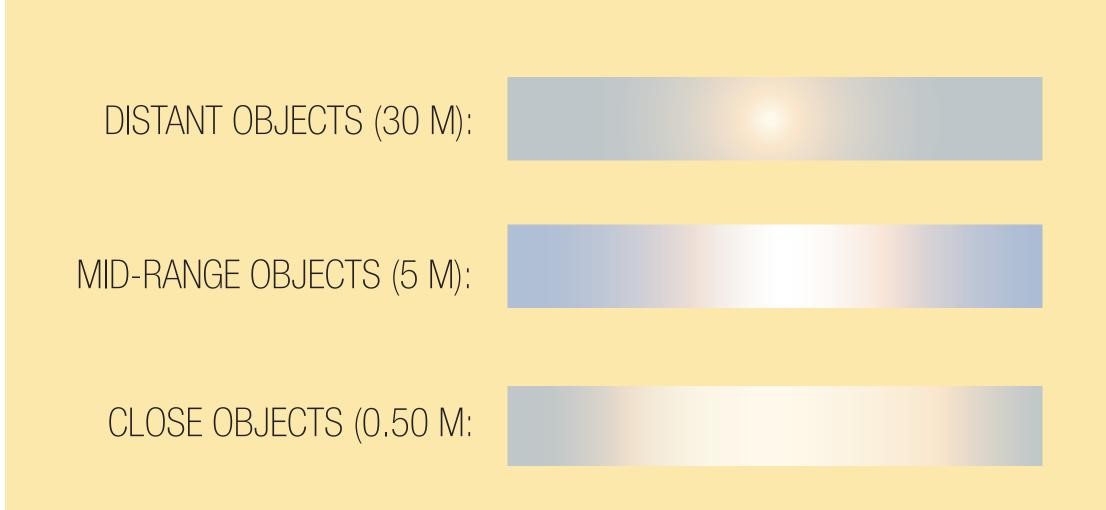
The Visual Display



DATA
Model: Neopixel LED Array
Size: 8 x 32
Color: RGB
Input: 5V
Max Power Consumption: 75W
Company: Neopixel

HOW IT WORKS

The light panel consists of 6 8x32 LED panels. They display the information from the car's vision system. The closer an object is, the larger it will appear on the light panel. The system is programmed to let objects as far as 34 m away appear on the display. A non-linear scaling is used for height of the object on the display.



The Vision System



DATA
Model: Leddar M16
M16 multi-eliment sensing module
LeddarTM (Light-Emitting Diode Detection and Ranging) technology
Interface: USB, RS-485, CAN, UART
Detection range: 0 to 50 meters
(165 ft.)
Company: LeddarTech

HOW IT WORKS

The vision system consists of three LEDDAR (Light-Emitting Diode Detection and Ranging) sensors with a horizontal span of 48° and a vertical span of 8°. It results in an overall sensing are of 110m x 7m at the maximum 50m range.

