



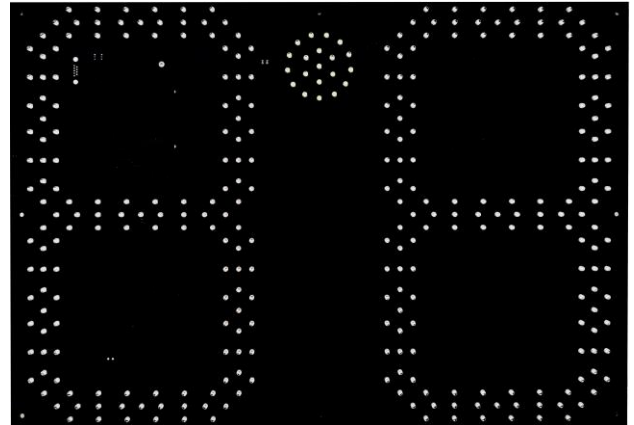
**HOUSTON
RADAR**

PNL18 OEM Radar Speed Sign Kit

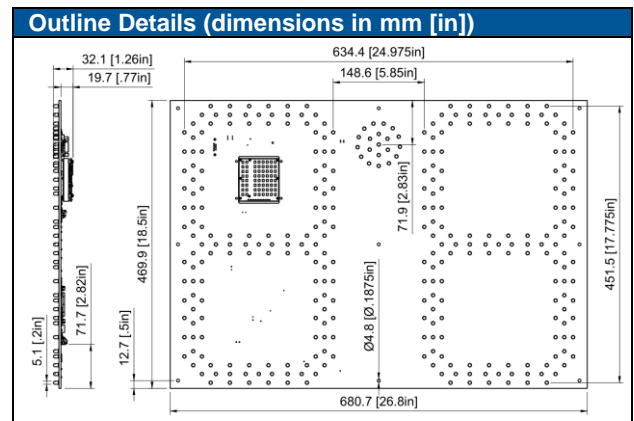
PNL18 kit is a low power speed feedback sign building block. Our state-of-the-art DR600 Doppler radar integrated with an Amber color sunlight readable two-digit 7-segment display makes it ideal for use in slim radar signs for highways, work zones and roads with higher speed limits or where long-range visibility is required. With an addition of a power source and enclosure, this kit can be quickly brought to market as a complete product.

Features and Benefits

- Zero cables highly integrated design assembles in minutes.
- 18" (46cm) digit height with 30% inter-character separation is matched to 2000+ ft (600+m) detection range of the radar for optimal display legibility¹.
- Best in class power efficiency achieved by:
 - Low power DR600 radar drives display eliminating extra CPU.
 - In built ambient light sensing and automatic brightness control.
 - Ambient temperature compensation of LED drive voltage.
 - High efficiency boost regulator for LED drive voltage.
- With no traffic present, radar automatically powers down the display further reducing power consumption to only 0.1W.
- Wide input supply voltage operation allows flexible power supply options ranging from 3, 4 or 5 cell Lithium Ion packs or 12V Lead Acid batteries without sacrificing sign efficiency.
- Built-in rotary switch allows user to set cutoff and violator speed alerts in the field without connecting to a computer.
- White LED strobe and display flashing can be optionally activated to draw attention to speeding.
- Expandable with a 100's "1" digit and "SLOWDOWN" via connector².
- Radar is FCC approved with CE mark and available in 24.125GHz and 24.200GHz versions for worldwide deployment.
- Ground speed compensation feature to deploy on moving trucks.
- Optional built-in traffic statistics collection³.



Specifications & Recommended Operating Conditions	
Specification	Recommended Condition
Vcc	8.5VDC to 16VDC (18V max)
Icc@12VDC (Radar always on) ("88" on display)	Display blank: 20 mA typ
	Display at night: 72 mA typ
	Display max bright: 600 mA typ
Radar RF out	20dBm
Radar f _{center}	24.125GHz or 24.200 GHz
Operating °F (°C)	-40 (-40) min to 185 (85) max
Pickup Distance	2000+ feet (600+ m) typical in full range mode ¹
Beam Angle	9°x18°
Beam Polarization	Linear
FCC ID (Radar)	TIADR600
CE Mark (Radar)	Yes
Dimensions	18.5"x26.8"x1.3" (47 x 68 x 3.2 cm)
Weight	4.6 lbs (2.1kg) approximately
Display Brightness	11,000 nits (cdm) maximum 550 nits (cdm) at night



All specifications are subject to change.

¹Pickup distance is typical and will vary with road conditions and targets.

²1's digit trigger can operate in addition to white strobe (unlike PNL10).

³Statistics feature will not work with ground speed compensation enabled. Statistics collected for incoming traffic only.



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13814 Sherburn Manor Dr. • Cypress, Texas 77429
<http://www.houston-radar.com>
Toll free 1-888-602-3111