

Road Sensor

FRT NIR51 Non Invasive Road Sensor

Overview

FRT NIR51 non-intrusive pavement sensor is designed to monitor traffic and road surface design, which uses remote sensing technology, to avoid damage to the road. Multi-spectral measurement technology makes it possible to accurately detect the road surface ice, snow and water thickness. By providing information on road conditions, road conditions non-contact sensor provides accurate monitoring data for road management department, before the road safety dangerous situation, take response actions.

Features

Non-submerged design
Infrared detection farthest 15.5 m
Without closing lanes, installation and maintenance simple
Rugged design, all-weather measurement



Qualification:

Measuring range:	2—15M
Measuring diameter	25.4 cm
Angle	30—90°
Power input	220VAC/12VDC
Maximum power consumption	4W
Operating temperature	-40 °C — +70 °C
Operating humidity	0 - 100%
The road state output	Water: 0.00—2mm
	Ice: 0.00—2mm
	Snow: 0.00—10mm
	Slippery degree: 0.00—1
Accuracy	0.01mm
Lens pollution detection	Optical lens pollution level measurement and internal automatic pollution compensation
Roadbed	concrete pavement and asphalt pavement
Communication	RS485
MTBF	1.5 x 1000000Hour
Safety	No safety issues - infrared remote sensing measurement technology