TSR20 Speed Feedback Radar



TSR20

TSR20 is one extreme performance traffic measure distance and measure speed radar, utilize the difference between launched radio electric wave and return wave to accurately measure the target distance, speed and other information.

TSR20 adopt micro band array antenna design, detect range up to 300m, accurately measure speed, able to discriminate the come and go direction vehicles. Installed beside the road, able to automatically measure vehicle driving speed on 1~4 lanes.

The product able to meet the application requirements of road size over speed shooting, section coming vehicle reminding, speed feedback instrument, applied at high way, common road, housing estate gate, school road, driver training road and other scenes where need display the vehicle speed.

Product characteristics

- Adopt advanced AI algorithm, validly discriminate the following vehicle and big vehicle, prevent omit shooting and repeat shooting;
- Based on the frequency spectrum fin technology, improve the measure distance and speed measure precision;
- Seize position of vehicle within ±0.5m, accordance bigger than 99%;
- Automatically discriminate the vehicle driving direction: come direction, go direction and dual direction;
- Integrate design, integrate the level and angle mark, easily install;
- Strong environment adaptability, not radar performance not affected by sunshine, dust, raining, snowing, fog, haze and other bad environment;
- With the RS485, RS232 and Wi-Fi communication function at the same time, conveniently and quickly configure the parameters;

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Technical specification

Parameter	Condition	MIN	TYP	MAX	Unit
System performance					
Refresh time			20		ms
Output Time	adjustable	50	500	2000	ms
Transmit frequency error		-40		40	MHz
Power			1.6		W
Communication interface		RS485/RS232/Switch			
Speed measurement characteristic					
Speed range		5		255	km/h
Speed accuracy		-1		0	km/h
Direction		Distinguish car coming and going			
Detection range	Vehicle		200	300	m
Antenna					
Beam width/TX	Azimuth(-6dB)		9.3		deg
	Elevation(-6dB)		37		deg
Other characteristic					
Working voltage			12		V DC
Working current			0.13		A
Working temperature		-40		85	℃
Working humidity		5%		95%	RH
Size		105*85.5*13			mm
Degreeof protection		IP66（The protection rating is not a permanent standard, and the protective capability may diminish due to product wear）			
laws and regulations		In certain countries or regions, this millimeter-wave radar may not be available for purchase. For details, please refer to local laws and regulations			

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Product application

- **Speed feedback**
- **Curve pre-alarm**



