smartmicro
SMART MICROWAVE SENSORS

Traffic Management Sensors

TOPGRD® | Compact Line

77 or 80 GHz
4D/PxHD resolution

SMART CITIES

INTERSECTION MANAGEMENT

HIGHWAY MANAGEMENT

STATIONARY ENFORCEMENT

TUNNEL MONITORING

RED-LIGHT ENFORCEMENT

OPTIMIZING TRAFFIC FLOW

- Software-defined radar
- VRU detection
- Replaces loops, outperforms video detectors
- Maintenance-free
- Works in all weather conditions
- Multi-lane, multi-object detection

THE MOST ADVANCED DETECTION TECHNOLOGY

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	TOPGRD®		
PERFORMANCE	X-Long-Range Mode	X-Medium-Range Mode	Short-Range Mode
Operating Frequency	76…77 GHz or 79…80 GHz 4 center frequencies	76…77 GHz or 79…80 GHz 2 center frequencies	76…77 GHz or 79…80 GHz 1 center frequency
Detection Range Passenger Car	240 m	100 m	40 m
Detection Range Minimum	1.2 m	0.5 m	0.2 m
Range Separation	≤ 2.4 m	< 1 m	< 0.4 m
Range Accuracy	< 0.6 m	< 0.25 m	< 0.1 m
Speed Min...Max	-320...+320 km/h	-320...+320 km/h	-385...+385 km/h
Speed Separation	< 0.26 m/s	< 0.26 m/s	< 0.46 m/s
Speed Accuracy	≤ 0.07 m/s	≤ 0.07 m/s	≤ 0.14 m/s
Number of Lanes	up to 10 lanes		
Field of View Azimuth	-50…+50°		
Field of View Elevation	-10…+10°		
Angle Accuracy Azimuth	≤ 0.25°		
Seperation: Azimuth	2°		
Angle Accuracy Elevation	≤ 0.5°		
GENERAL			
Update Cycle Time	≤ 55 ms		
Operating Voltage / Power Consumption	7...32 V / < 6 W		
Operating Temperature	-40...+85°C		
Interfaces	RS485 full duplex; Ethernet 10/100		
Dimensions	97.5 x 114.5 x 34 mm + connector		
Connector	Hirose LF10 series		
IP	IP 67		

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