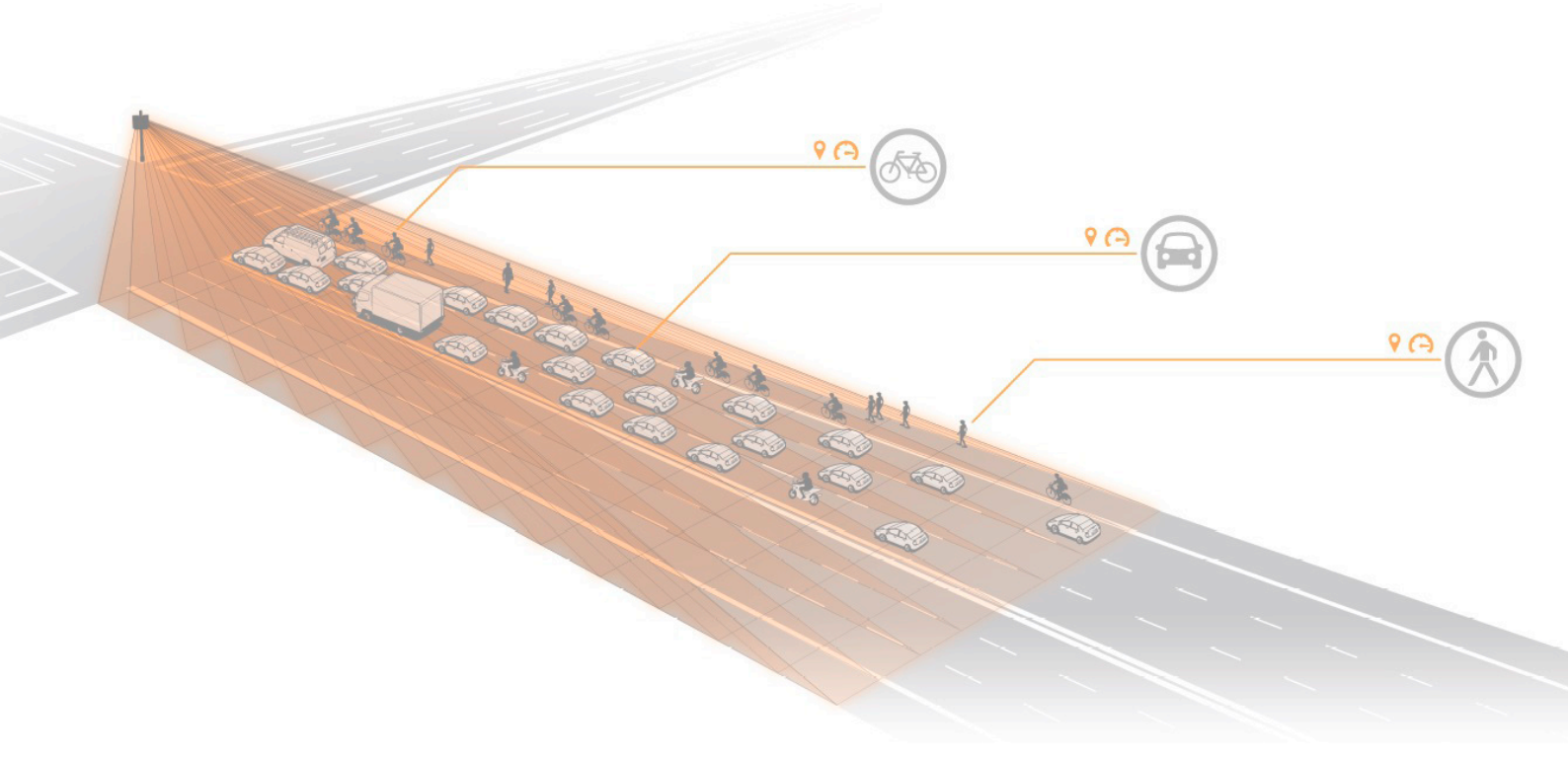
smartmicro
SMART MICROWAVE SENSORS



Traffic Management Radar

UMRR-11 | 24 GHz Basic Line

- 4D/HD resolution
- Maintenance-free
- Multi-lane, multi-object detection
- Detects moving and stopped traffic
- Replaces loops, outperforms video detectors
- Works in all weather conditions



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SMART MICROWAVE SENSORS

	UMRR-11 Type 44	UMRR-11 Type 45
PERFORMANCE		
Operating Frequency[1]	24.0 ... 24.25 GHz	
Resolution	4D measurement with HD resolution	
Detection Range Passenger Car	140 m or 459 ft	160 m or 525 ft
Detection Range Truck	180 m or 590 ft	219 m or 719 ft
Detection Range min ... max	1 ... 180 m or 3 ... 590 ft	1 ... 219 m or 3 ... 719 ft
Range Separation	2 m or 7 ft	
Range Accuracy	< ± 0.25 m or < ± 0.8 ft	
Speed min ... max	-320 ... +320 km/h or -199 ... +199 mph	
Speed Separation	0.35 m/s	
Speed Accuracy	< ± 0.28 m/s	
Number of Lanes	Up to 6	Up to 4
Field of View Azimuth	-50° ... +50°	-22° ... +22°
Field of View Elevation	-12° ... +12°	
Angle Accuracy Azimuth	< 1°	
Angle Accuracy Elevation	< 1°	
MECHANICAL		
Weight	360 g or 12.7 oz	
Dimensions	110 x 99 x 32 mm or 4.3 x 3.9 x 1.3 in + connector	
GENERAL		
Update Cycle Time	58 ms	
Operating Voltage / Power Consumption	8 ... 32 V / 5 W	
Operating Temperature	-40 ... +85°C or -40 ... +185°F	
Interfaces	RS485 full duplex; Ethernet 10/100; 1x CAN V2.0b (passive)	
Connector	Hirose LF10 series	
IP	67	

[1] In certain regions, frequency intervall starts at 24.05 GHz.

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Please refer to the datasheets on our website for more / the latest information.