AGIL® Sense

MICROWAVE SENSOR MODULES

ST Engineering

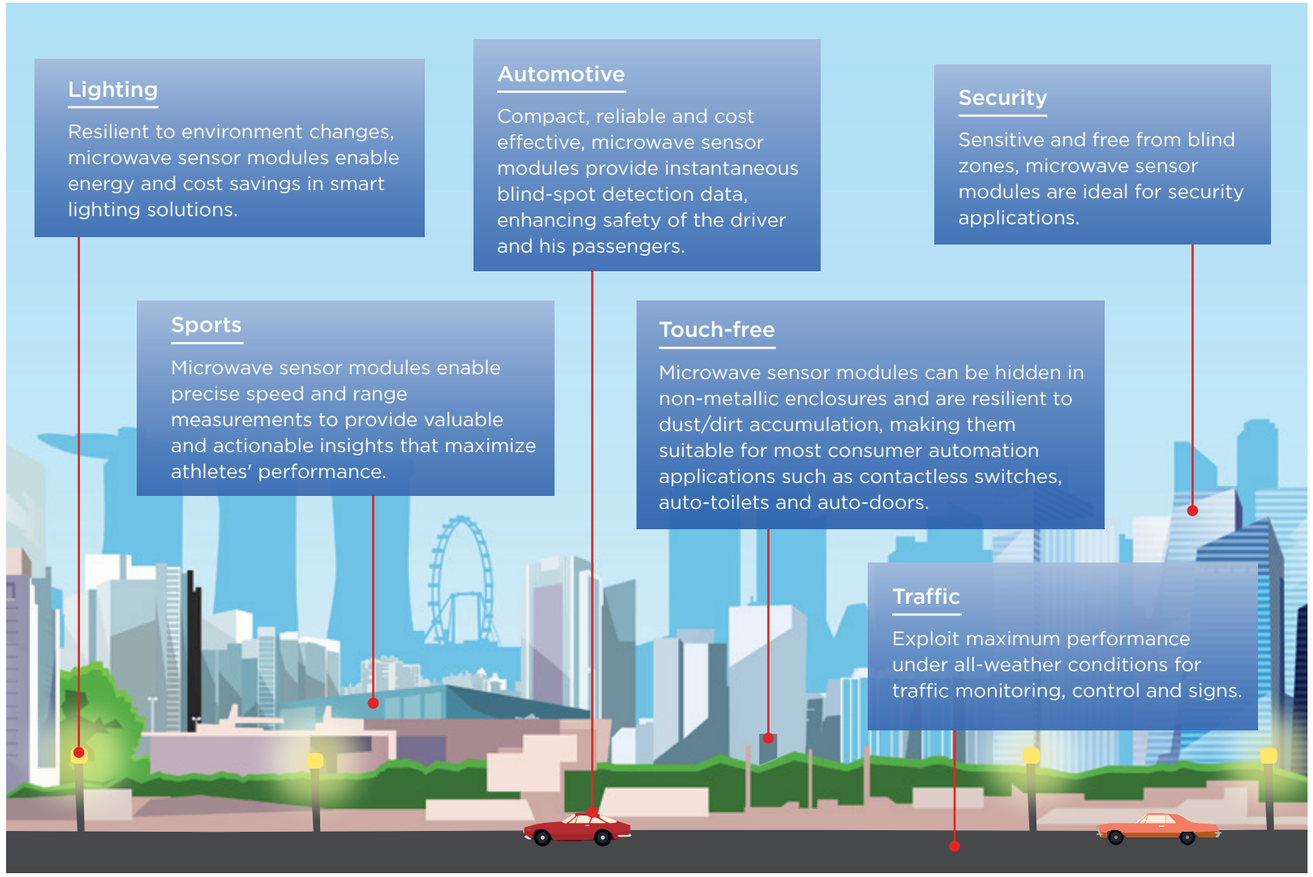
ENGINEERED

FOR RELIABILITY

Driving the Future with AGIL®

The rise in demand for smart sensors that enable efficient data collection for better operations are shaping the future of smart cities. We are obsessed with a deep sense of purpose to address a range of evolving challenges allowing cities to effectively monitor and manage a range of community services, whether it is effectively monitoring traffic and transportation systems, optimising waste management processes, or improving intruder detection to create smarter and safer living environments.

To address customers' demand for smart and environmentally friendly sensors, technologies to enhance detection processes and improve operational efficiency while providing energy-efficient outcomes drive our solutioning approach. AGIL, our unique solutioning approach, acts as the heart of our conscious innovation to constantly seek and challenge incisive, inventive and intuitive solutions to help solve real-world problems. With emerging technology and experiential thinking, we have effected over 100 large-scale security projects across over 22 cities.



Aesthetic Flexibility
Senses through non-metals, enabling sleek and/or waterproof enclosures

Non-intrusive
Monitors silently without identification

Safe
Up to 50 times lower emissions than mobile phones

Weather-proof
Resilient to visibility variations and withstands deployments in harsh environments

Data-rich
Provides valuable information such as speed, range and direction in a single package

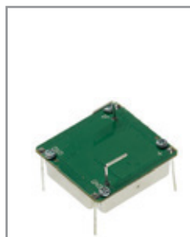
Industry Leader in Microwave Sensor Technology

As leading brand, AGIL microwave sensor modules are designed to be highly sensitive, reliable and responsive over an extended range, meeting all your speed, distance and occupancy-sensing requirements.

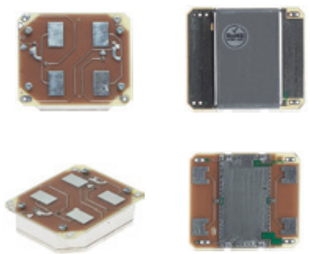
Our state-of-the-art production facilities are certified with the highest standards of quality, safety and consistency for advanced CAD, test and manufacturing solutions. We develop standard and customised sensor solutions that comply with international standards and regulations.

Our Solutions

We offer a complete range of microwave sensors operating in the C-, X- and K-band frequencies. The C- and X-Band microwave sensor modules may be used in security, lighting, and touch-free applications while the K-Band sensor modules extend the applications into automotive, traffic and sports.



C-band (5.8 GHz)
Globally Compliant



X-band (10 GHz)
America, Europe, China, most of Asia

K-band (24 GHz)
Globally Compliant

C–, X–Band Microwave Sensor Selection Guide

- Range estimation is for typical human detection
- 3V version available

Model	Range (m)	Beam Pattern X (°)	Beam Pattern Y (°)	I/Q	IF/RF Amp	Power Supply (V/mA)	VCO	Size LxWxH mm (inches)	Wt. (g)	Typical Applications	Applicable Country
LB200-1	12 Ø	Omni-directional		No	Yes/No		No	30 x 28 x 23 (1.2 x 1.1 x 0.9)	7	Security, lighting	Worldwide
LB200-2					No/No		No				
HB100	18	80	40	No	No/No	5/30	No	40 x 46.5 x 8.7 (1.6 x 1.8 x 0.3)	8	Security, lighting, sports, touch-free	USA, Canada
HB180	15						Yes	40 x 46.5 x 11.5 (1.6 x 1.8 x 0.5)	17		USA, Europe
HB181	24	40	40				Yes	40 x 52.5 x 11.5 (1.6 x 2.1 x 0.5)	20		USA, Europe
HB190	15	80	40				No	38.6 x 46.3 x 8.8 (1.5 x 1.8 x 0.4)	10		Belgium, Italy, Netherlands
HB490	10						No				Germany
HB590	15						No				UK
HB590-FR	10						No				France
HB170	25				No/Yes	5/40	No	40 x 46.5 x 11.5 (1.6 x 1.8 x 0.5)	19		Belgium, Italy, Netherlands
HB570	25						No				UK

K-Band Microwave Sensor Selection Guide

Model	Range (m)	Beam Pattern		I/Q	IF/RF Amp	Power Supply (V/mA)	VCO	Size LxWxH mm (inches)	Wt. (g)	Typical Applications	Applicable Country
		X (°)	Y (°)								
AP11	3	80	32	No	No/No	5/30	No	15.2 x 24.0 x 11.8 (0.6 x 1.0 x 0.5)	1.4	Security, touch-free	Worldwide
AP11-S								15.2 x 21.5 x 3.5 (0.6 x 0.8 x 0.1)	1.2		
AP81	15	50	24	Yes	No/No	5/30	No	38.4 x 31.6 x 11.5 (1.5 x 1.2 x 0.5)	5	Security, traffic, sports, automotive	
AP82	23				No/Yes	5/60					
AP83	15				Yes/No	5/36					
AP84	23				Yes/Yes	5/66					
AP96	15	80	32	No	No/No	5/30	No	25.4 x 25.4 x 11.7 (1.0 x 1.0 x 0.5)	2	Security, lighting touch-free	
AP97	10			Yes			No			Security, touch-free, automotive	
AP98	7 Ø	Omni-directional		No			No			Security, lighting	
AP99	10	80	32	Yes			Yes			Security, automotive	
DF100	100	24	12	Yes	Yes/Yes	5/45	No	65 x 65 x 12 (2.6 x 2.6 x 0.5)	75	Traffic, sports	
DF101	100	16	12			5/45		112.6 x 65 x 12 (4.4 x 2.6 x 0.5)	105		
DF102	100	16	12			5/45					
DF103	200	16	6			5/45		136 x 108 x 12 (5.4 x 4.3 x 0.5)	175		
DF300	200	24	12			5/75		65 x 65 x 12 (2.6 x 2.6 x 0.5)	75		
DF600	100	24	12			5/45		65 x 65 x 15.6 (2.6 x 2.6 x 0.6)	40		
DF800	200	24	12			5/75					
DF990	100	24	12			5/45	Yes				
DF995	75	50	18			5/45					

- Range estimation is for typical human detection
- Range estimation is for typical sedan car detection
- 3 V version available

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