












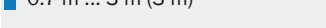
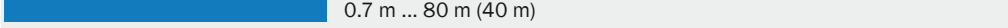


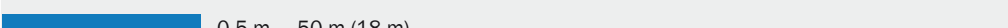
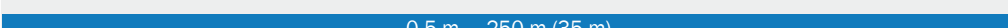


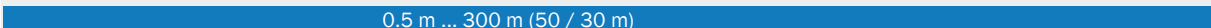


Selection Guide DETECTION AND RANGING SOLUTIONS

Product		Principle of operation				Applications										
		Navigation	Detection	Measurement	Multi-echo technology	Level measurement	Checking height	Area monitoring	Checking presence	Collision prevention	Position detection	Electronic routing	Range finding	Shape recognition	Classification	
2D LiDAR sensors																
	TIM series		■					■	■	■						
	TIM3xx		■				■	■	■	■						
	TIM5xx			■			■	■		■	■		■			
	S100		■						■	■						
	LMS1000		■	■	■	■	■	■	■	■	■	■	■	■	■	
	LMS1xx		■	■	■	■	■	■	■	■	■	■	■	■	■	
	LMC1xx		■	■	■			■	■							
	LMS4000			■		■	■		■				■			
	LMS5xx		■	■	■	■	■	■	■	■	■	■	■	■	■	
	LD-OEM		■	■		■	■	■	■	■	■		■	■		
	LD-LRS		■	■		■	■	■	■	■	■		■	■		
		NAV series	■	■	■							■	■	■	■	
		NAV3xx	■	■	■							■	■	■	■	
NAV-LOC		■	■	■							■	■	■	■		
3D LiDAR sensors																
	MRS series		■	■	■	■	■	■	■	■	■	■	■	■	■	
	MRS6000		■	■	■	■	■	■	■	■		■	■	■	■	
	LD-MRS		■	■	■	■	■	■		■	■	■	■	■	■	
Radar sensors																
	RMS series		■	■				■	■	■			■			
	RAS4xx		■					■	■	■			■			

Working ranges (with 10 % remission)														Page
20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m	180 m	200 m	220 m	240 m	260 m	280 m	

 0.05 m ... 10 m (3 m)	→ 6
 0.05 m ... 10 m (8 m)	→ 6
 0.05 m ... 25 m (8 m)	→ 7
 0.05 m ... 10 m (4.5 m)	→ 7
 0.2 m ... 64 m (16 m)	→ 8
 0.5 m ... 50 m (30 m)	→ 8
 0.5 m ... 20 m (18 m)	→ 9
 0.7 m ... 3 m (3 m)	→ 9
 0.7 m ... 80 m (40 m)	→ 9
 0.5 m ... 250 m (55 m)	→ 10
 0.55 m ... 250 m (80 / 120 m)	→ 10
 0.5 m ... 50 m (18 m)	→ 11
 0.5 m ... 250 m (35 m)	→ 11
 0.5 m ... 250 m (35 m)	→ 11



 0.2 m ... 64 m (16 m)	→ 12
 0.5 m ... 200 m (30 m)	→ 12
 0.5 m ... 300 m (50 / 30 m)	→ 13

 1 m ... 45 m	→ 14
 0.2 m ... 20 m	→ 14

	 <p style="text-align: center;">TiM1xx</p>	 <p style="text-align: center;">TiM3xx</p>	
	<p>Sensor for area monitoring: small, simple, cost-effective</p>	<p>The safe and reliable detection solution</p>	

Technical data overview			
Application	Indoor	Indoor / Outdoor	
Aperture angle	200°	270°	
Angular resolution	1°	0.33°, 1°	
Working range	0.05 m ... 10 m	0.05 m ... 10 m, > 50% remission	
Scanning range At 10% remission	1.2 m ... 3 m, depending on the angle	2 m ... 8 m	
Scanning frequency	14.5 Hz	15 Hz	
Ambient operating temperature	-10 °C ... +50 °C	-25 °C ... +50 °C	
IO-Link	✓	-	
Ethernet	-	✓	
Serial	-	-	
USB	-	✓	
CANopen	-	-	
Max. switching inputs / outputs	1 / 2	4 / 3	
Weight	90 g / 122 g	150 g / 250 g	

At a glance

<ul style="list-style-type: none"> • Small, simple, and cost-effective sensor for area monitoring • Low weight of just 90 g • Field evaluation using integrated software algorithms • Low power consumption of typically 2.2 W • Configuration and cloning using IO-Link • Industrial design <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> • Incredibly compact, light, and economical sensor • Field evaluation using intelligent software algorithms • Configuration interface accessible from the side, when the device is mounted • Low power consumption (typically 4 W) • TiM3xxS only: Certified to DIN EN ISO 13849-1:2015 <div style="text-align: center;">  </div>
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<p>Detailed information</p>	<p>→ www.sick.com/TiM1xx</p>	<p>→ www.sick.com/TiM3xx</p>	
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TiM5xx

Complete measurement accuracy



S100

Easy for anticollision

Indoor / Outdoor
270°
0.33°, 1°, 3°
0.05 m ... 25 m

2 m ... 8 m
15 Hz
-25 °C ... +50 °C

-
✓
✓
✓
-
- / 1

150 g / 250 g

Indoor
270°
0.5°, 1°
0 m ... 10 m

4.5 m
25 Hz
-10 °C ... +50 °C

-
-
✓
-
✓

5 / 5

1.2 kg

- Monitoring area of up to 1,470 m² with just one sensor
- High ambient light tolerance due to HDDM technology
- Rugged housing with up to an IP 67 enclosure rating
- Low power consumption (typ. 4 W)
- Compact design with a housing height of just 86 mm maximum
- Integrated Ethernet interface
- Long sensing range of up to max. 25 m
- Industry-standard design and M12 male connector



→ www.sick.com/TiM5xx

- Small, lightweight and economical measurement sensor
- Field evaluation using intelligent algorithms
- Parameter setting interface is accessible from the front while the device is mounted



→ www.sick.com/S100