



APS-5101

APS

OBJECT DETECTION SYSTEMS





Ordering information

Туре	part no.
APS-5101	1069176

Other models and accessories → www.sick.com/APS



Detailed technical data

Features

Areas of application	Airport
Number of sensors	1
Scanning frequency	25 Hz
Aperture angle	180°, horizontal
Angular resolution	0.25°
Vehicles	Pushback tractors without towbar
Requirements for objects to be protected	Aircraft properties: Aircraft fuselage height: > 80 cm Track: 4.5 m-15 m Wheelbase: 10 m-32 m
Working range	0.7 m 80 m
Heating	✓

Mechanics/electronics

Dimensions display (W x D x H)	142 mm x 44 mm x 98 mm (with mounting 130 mm depth)
Weight	3.7 kg, 4.286 kg with brackets (LMS511) 360 g, 600 g with mounting (Display)
Supply voltage	24 V DC (19.2 V DC 28.8 V DC)
Power consumption	27 W (≤ 92 W), With heating
Installation position	Pushback tractor, rear side left or rear side right, 20 cm - 60 cm from ground (LMS511)
Laser class	1, eye-safe (IEC 60825-1:2014)

Performance

Working range	0.7 m 80 m
Display	4.3" touch display
Functions	Audible and visual collision warning Maneuver assistant Aircraft type detection
Number of laserscanners	1
Monitored area	Area under the docked aircraft behind the aircraft tractor
Warning zones	3
Self-diagnostics	✓

Interfaces

GPS ✓ , optional

Function	Speed-based warning concept
Ethernet	√
Function	Software updates via web interface
Electrical connection	M12, 4-pin
Switching inputs	√ (2)
Function	Silent signal Swivel chair
Switching outputs	✓
Function	Acoustic warning
Operator interface	Touch display

Ambient data

Ambient operating temperature	-25 °C +50 °C
Ambient temperature, storage	-25 °C +60 °C

General notes

Items supplied	LMS511 2D LiDAR sensor Mounting kit 1 for mounting the LMS511 Mounting kit 2 for adjusting the LMS511 on mounting kit 1 Operator display Mounting set for operator display Ethernet switch Buzzer USB stick with operating instructions Power supply cable (female connector open) for LMS511 (20m) Connecting cables for operator display (5 m) Connecting cables for operator display (10 m) Ethernet connection cable (angled) for operator display (5 m) Power supply cable (female connector open) for Ethernet switch (10 m)
	Power supply cable (temale connector open) for Ethernet switch (10 m)

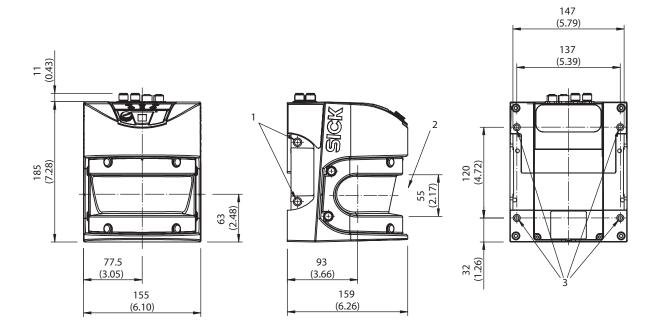
Certificates

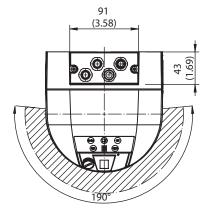
EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓

Classifications

ECLASS 5.0	27339090
ECLASS 5.1.4	27339090
ECLASS 6.0	27339090
ECLASS 6.2	27339090
ECLASS 7.0	27339090
ECLASS 8.0	27339090
ECLASS 8.1	27339090
ECLASS 9.0	27330190
ECLASS 10.0	27330190
ECLASS 11.0	27330190
UNSPSC 16.0901	25172105

Dimensional drawing LMS511

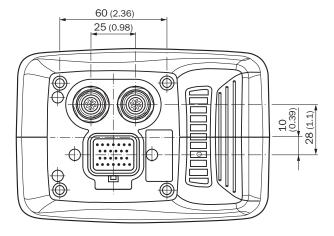


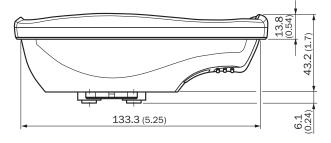


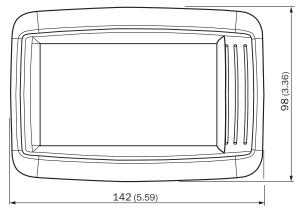
Dimensions in mm (inch)

- 1 4 screw holes M8 x 9
- ② do not block front screen
- 3 4 screw holes M6 x 8

Dimensional drawing Operator display

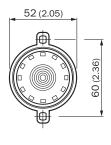






Dimensions in mm (inch)

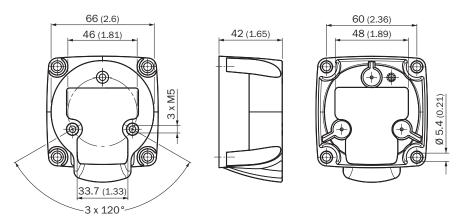
Dimensional drawing Buzzer





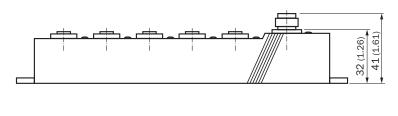
Dimensions in mm (inch)

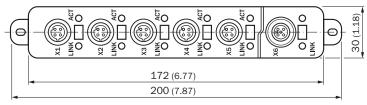
Dimensional drawing Mounting set for operator display



Dimensions in mm (inch)

Dimensional drawing Ethernet switch





Dimensions in mm (inch)

SICK AT A GLANCE

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For us, that is "Sensor Intelligence."

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