



VPS153

VPS Pro

PROFILING SYSTEMS

SICK
Sensor Intelligence.

Ordering information



Type	part no.
VPS153	1067558

Included in delivery: Traffic Controller VPS (1), LMS511 SE (1), LMS111-10100S05 (2)

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



Detailed technical data

Features

Application	System for measurement of vehicle dimensions
Number of covered lanes	1
Scanner design	3-scanner solution
Vehicle data	Vehicle dimensions (length, width, height) 3D measuring points on the vehicle Vehicle speed Start- and end measurement point of the measurement
Recommended vehicle distance	Vehicles must pass through the measuring station one by one
Calibration	Yes
Stop-and-go functionality	Yes

Mechanics/electronics

Measuring range requirements	Measuring range (spanned by scan planes of the LMS) must be optically clear
Installation position	Distributed
Installation height	5 m ... 8 m Height of LMS Width, at least 1 m higher than the maximum vehicle height, LMS Length, offset by the maximum vehicle length + 3 m in the direction of travel, mounted laterally or overhead

Performance

Length measurement accuracy	± 100 mm with vehicle speed < 7 km/h ^{1) 2)}
Width measurement accuracy	± 60 mm with vehicle speed < 7 km/h ^{1) 2)}
Height measurement accuracy	± 60 mm with vehicle speed < 7 km/h ^{1) 2)}
Calibration accuracy	30 mm x 30 mm x 30 mm (L x W x H) ^{1) 3)}
Driving speed	3 km/h ... 7 km/h, for full coverage, achievement of the maximum measurement accuracy of the length, width, and height measurement possible 7 km/h ... 100 km/h, reduction in length, width, and height measurement accuracy
Minimum object size	1 m x 0.6 m x 0.6 m (L x W x H)
Maximum object size	30 m x 5 m x 5 m (L x W x H)

¹⁾ Typical value; actual value depends on environmental conditions.

²⁾ Information refers to twice the standard deviation (2 sigma).

³⁾ Maximum deviation of the measuring points from the ideal test object.

General notes

Items supplied	LMS511 SE LMS111-10100S05 (2 x)
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	VPS Traffic Controller with VPS software incl. USB stick with TEMS info sample client, source code for TEMS info sample client, TEMS analyzer, and operating instructions
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Certificates



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









Classifications

ECLASS 5.0	27281001
ECLASS 5.1.4	27280190
ECLASS 6.0	27280190
ECLASS 6.2	27280190
ECLASS 7.0	27280190
ECLASS 8.0	27280190
ECLASS 8.1	27280190
ECLASS 9.0	27280190
ECLASS 10.0	27280190
ECLASS 11.0	27280190
ECLASS 12.0	27280190
UNSPSC 16.0901	41111615

Recommended accessories

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

	Brief description	Type	part no.
Commissioning aids and test equipment			
	<ul style="list-style-type: none"> Product: Alignment aids Description: Alignment aid for detecting the infrared light (wavelength 780 nm to 1050 nm) of SICK sensors 	Alignment aid	2101720
device protection and care			
	<ul style="list-style-type: none"> Description: Weather hood, 190° Suitable for: LMS10x, LMS11x, LMS12x, LMS13x, LMS14x, LMS15x, S100 	Weather protection cover 190°	2046459

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> Description: Mounting kit for fine adjustment For LMS1000/MRS1000, always use "Mounting kit 1a 2093194" or "Mounting kit 1b 2085935" and "Adapter plate 2085937" Material: Stainless steel Details: Stainless steel V2A (1.4301) Suitable for: LRS4000, MRS1000, LMS1000, LRS4000 	Fine adjustment bracket	2076764
	<ul style="list-style-type: none"> Description: Mounting plate, adjustable longitudinal axis, only in conjunction with mounting kit 2 (2039302) Packing unit: 1 piece 	Mounting kit 3	2039303
	<ul style="list-style-type: none"> Description: Mounting bracket, adjustable lateral axis, only in conjunction with mounting kit 1a (2034324) or 1b (2034325) Packing unit: 1 piece 	Mounting kit 2	2039302
	<ul style="list-style-type: none"> Description: Mounting bracket for rear mounting on wall or machine Packing unit: 1 piece 	Mounting kit 1a	2034324
connectors and cables			
	<ul style="list-style-type: none"> Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet Cable: 20 m, 4-wire, AWG26, PUR, halogen-free Description: Ethernet, twisted pair, shielded 	YM2D24-200EA1M-RJA4	6036158
	<ul style="list-style-type: none"> Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 20 m, 4-wire, CAT5, CAT5e, PUR, halogen-free Description: Ethernet, shielded, PROFINET Application: Cold bending resistant, Outdoor, Zones with oils and lubricants, seawater resistant 	YM2D34-200P-N4MRJA4	6050685
	<ul style="list-style-type: none"> Connection type head A: Female connector, M12, 5-pin, straight, A-coded Connection type head B: Flying leads Signal type: Power Cable: 20 m, 4-wire, PUR, halogen-free Description: Power, shielded Connection systems: Flying leads Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2Z15-200UE1XLEAX	6042564
	<ul style="list-style-type: none"> Connection type head A: Female connector, M12, 4-pin, straight Connection type head B: Flying leads Cable: 20 m, 4-wire, PUR, halogen-free Description: Shielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A64-200UE1XLEAX	6050687

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com