

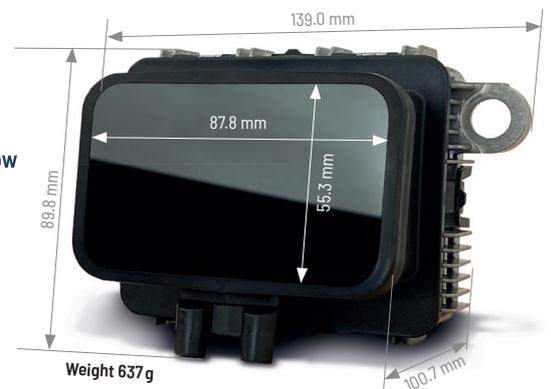
MOVIA™ L

Robust solid-state lidar for industrial applications



Key Features

- ▶ Developed to automotive-grade standards
- ▶ Solid-state solution
- ▶ Robust and reliable: no moving parts
- ▶ Transceiver resolution of 128 columns x 80 rows
- ▶ Sequential flash scanning captures environment hundreds of times, row by row
- ▶ Adverse weather performance due to multi-echo capability



High efficiency and precision in agriculture

Precision agriculture is now an important area of agribusiness. Sections of agricultural land that are cultivated twice cost time. We tackle this problem area: our products provide support with positioning in the field down to the centimetre and offer route planning to help create clean starting edges and detect obstacles.

Your solution in the area of logistics

The economy is operating at an ever faster pace. Warehousing and logistics are therefore gaining in importance for companies. We make highly efficient processes possible through our technology. We support in the area of warehousing and logistics to make processes run more quickly and safely, in some cases even making processes fully automatic.

Greater efficiency in mining

In both underground and open cast mining, huge losses can be incurred through raw materials that are transported for several hours over a wide range of track surfaces. If a vehicle leaves the track or has a breakdown because of unseen obstacles, the loss is significant. With the aid of our products, these risks can be reduced considerably and efficient work processes can be ensured.

Ideal for navigating and docking ships

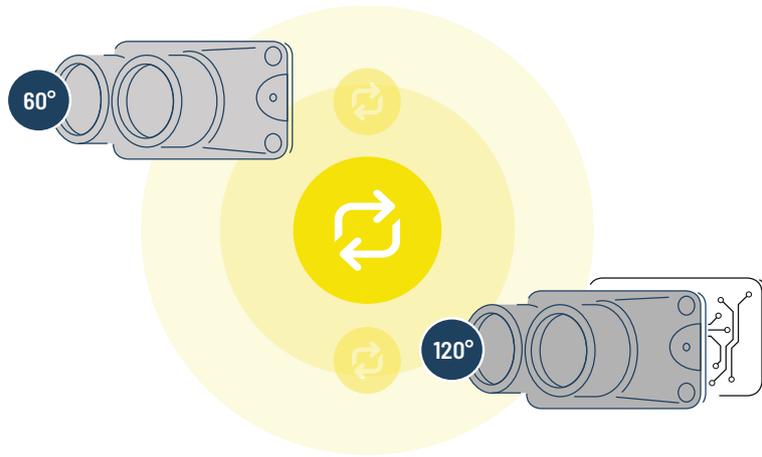
Many ships are already equipped with technologies that allow them to operate autonomously on the open sea. But other technologies are required in the port area, on waterways and in locks. We work with our products in these areas to give captains dependable support for safe manoeuvring.

Safe mobility at the speed of life®



Modular Optics Concept

MOVIA™ L features a modular optics concept, allowing for quick and resource-saving adaptation of sensors during production to fit every use case. The same core components are usable with modular optics to allow variable fields of view. Depending on the application, 60 degree or 120 degree optics are available.



Technical Data

Optical	MOVIA™ L 60° industrial	MOVIA™ L 120° industrial
Max. field of view (h x v)	60° x 37.5°	120° x 75°
Max. angular resolution (h x v)	0.23° x 0.38°	0.47° x 0.75°
Measurement range	0.15 m – 80 m	0.15 m – 45 m
Range 10% target @ 100 kLUX	25 m (90% true positive rate)	14 m (90% true positive rate)
	32 m (50% true positive rate)	18 m (50% true positive rate)
Accuracy	3 cm	
Frame rate	5 – 25 Hz	
Wavelength	885 nm	
Electrical	MOVIA™ L 60° industrial	MOVIA™ L 120° industrial
Operating voltage	9 V – 16 V DC	
Maximum power consumption	< 15 W	
HW connector	Power: TYCO MCON 1.2 (2 Pin) Data: TYCO MCON 0.5 (4 Pin)	
Connectivity	100BASE-TX ethernet	
Environment	MOVIA™ L 60° industrial	MOVIA™ L 120° industrial
Laser	Laser Class 1	
Operating temperature	-40° C – 85° C	
Ingress protection	IP6K9K	

Technology & Innovation



No moving parts



4D Output:
Point cloud & intensity image



Variable scan frequency



High resolution



Protected from environmental influences



Class 1 laser product



Low power consumption



Modular optics concept