

MMS L2

Magnet detection sensor for Automated Guided Vehicles

- Detection speed up to 25 m/s
- Detection height 30 - 200 mm
- Positioning better than 5 mm
- All weather proof
- Not sensitive for light, dirt and electromagnetic noise



The MMS L2, or Magnet Measurement Sensor, can be used for accurate positioning of Automated Guided Vehicles (AGVs). Mounted underneath the AGV it detects the magnetic field of magnets that are embedded in the floor. The MMS L2 is all weather proof, not sensitive to ambient light, electromagnetic noise and floor unevenness. It combines a high detection speed (up to 25 m/s) with superior accuracy (better than 5 mm) and it can be used for indoor, as well as outdoor

environments. The sensor is available in various lengths and can be used for all types of AGVs. Combine the MMS L2 magnet detection sensor with our FrogBox L2 industrial AGV controller for robust, fast and reliable control of your AGV.

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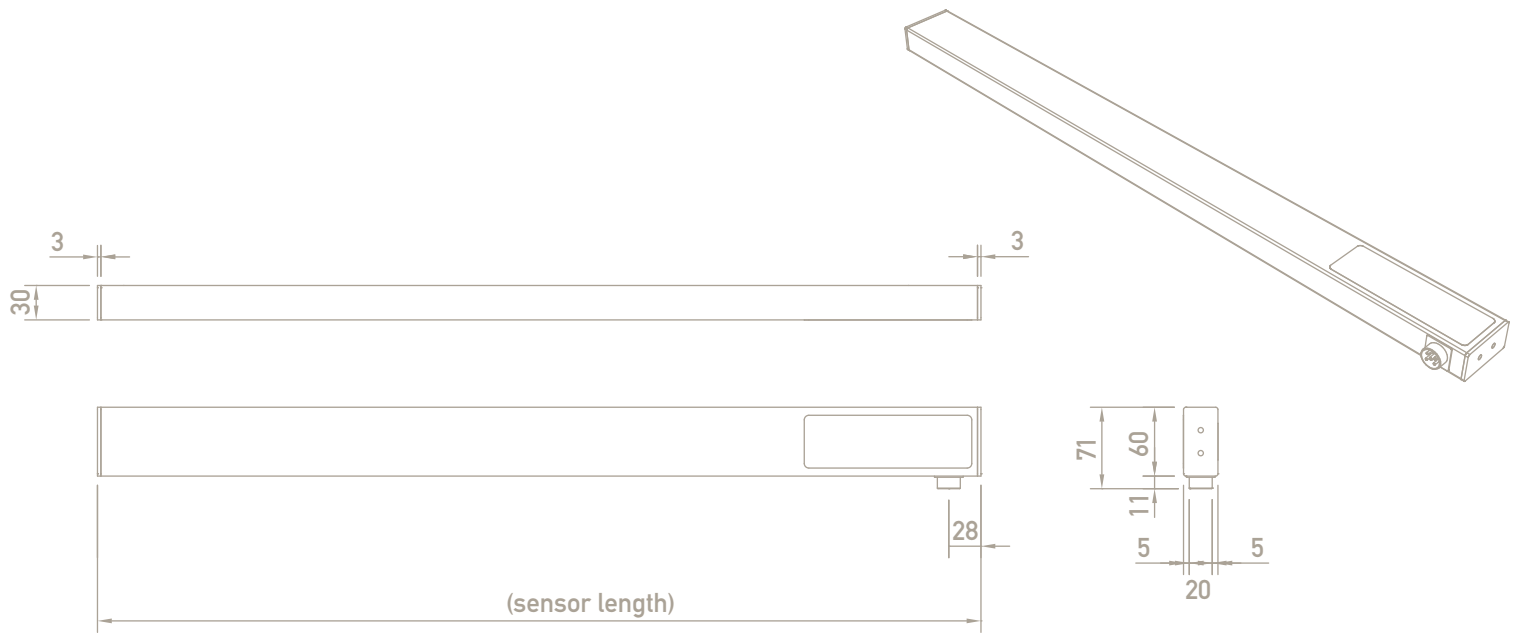
Built-In MMS L2



Indoor application



Outdoor application



all dimensions in mm.

Specifications

position measurement error	±5 mm in X and Y direction	
maximum detection speed	25 m/s	
maximum detection height	80 mm	using Ø10 x 10 mm NdFeB magnets
	200 mm	using Ø15 x 30 mm NdFeB magnets
minimum detection height	30 mm	
CAN interface	protocol	CAN-open
	baud rates	125, 250, 500, 1000 kBaud
	galvanic isolation and surge suppression	
RS232 diagnostics port	protocol	VT100
	baud rates	9600, 38400 Baud
power consumption	2.5 W	
EMC	95/54/EC, NEN-ISO 7637-2, FCC part 15B	
operating conditions	ambient temperature	-20° ... +85° C
	ambient humidity	0% ... 100%
protection class	IP 67	
shock resistance	10/20..250 g/Hz	IEC 68 part 2-6
vibration resistance	30/10 g/ms	IEC 68 part 2-27
power	18 - 32 VDC	overvoltage and reverse polarity protection

types

sensor length (height: 30 mm, depth: 60 mm)	detection range (sensor length +/- 80 mm)	weight (kg)	part number
530 mm	450 mm	1.7 kg	17.533-08
590 mm	510 mm	1.9 kg	17.533-05
650 mm	570 mm	2.1 kg	17.533-07
770 mm	690 mm	2.5 kg	17.533-01
950 mm	870 mm	3.1 kg	17.533-06
1130 mm	1050 mm	3.7 kg	17.533-02
1850 mm	1770 mm	6.0 kg	17.533-03
2210 mm	2130 mm	7.2 kg	17.533-04
sensor cable	please contact Frog AGV Systems for available lengths and types		

Frog AGV Systems develops and markets Automated Guided Vehicle Systems (AGVS) and navigation hard- and software. We help our customers become more productive and save money by delivering material handling solutions that are flexible, reliable and cost-effective.

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