

MiR100 for automation of in-house transport solutions

MIR100-EN-03-2017

Specifications	
Designated use	Mobile robot for transport tasks within industry, logistics and healthcare
Dimensions	
Length	890 mm
Width	580 mm
Height	352 mm
Weight (without load)	62.5 kg
Load surface	600 x 800 mm
Color	RAL 9010
Payload	
Load weight	100 kg (maximum 5% incline)
Towing capacity	300 kg (see separate MiRHook data sheet)
Speed and performance	
Running time	10 hours or 20 km
Maximum speed	Forwards: 1.5 m/s (5.4 km/h) / backwards: 0.3 m/s (1 km/h)
Turning radius	520 mm (around center of robot)
Positioning accuracy	+/-50 mm of position, +/-10 mm to docking marker
Traversable gap and sill tolerance	20 mm
Power	
Battery	Li-NMC, 24 V, 40 Ah; charging time: up to 3 hours (0-80%: 2 hours)
Internal charger	Input: 100-230 V ac, 50-60 Hz / Output: 24 V, max 15 A
Environment	
Ambient temperature range	+5°C to 50°C (humidity 10-95% non-condensing)
IP class	IP 20
Communication	
WiFi	Dual-band wireless AC/G/N/B
Bluetooth	4.0 LE, range: 10-20 m
I/Os	USB and Ethernet
Safety sensors	
SICK laser scanners S300 (2 pcs.)	360° visual protection around robot
3D camera Intel RealSense™	Detection of objects ahead 50-500 mm above floor
Ultrasonic scanners (4 pcs.)	Detection of transparent objects ahead, e.g. glass doors
Safety compliance and approvals	EN 1525, PLd cat. 3, and CE certified
Top module	
Max. height from floor to top	1800 mm
Center of gravity	Lower than 900 mm above the floor

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MIR100 dimensions

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