

## MiR100 for automation of in-house transport and logistics solutions

MiR100 EN 10 2016

| Specifications   |   |
|--|---|
| <b>Designated use</b>                                      |   |
| Mobile robot   | for smaller transport tasks within the industry, logistics and healthcare |
| <b>Dimensions</b>  |   |
| Length x Width x Height                                    | 900 mm x 600 mm x 358 mm  |
| Height above floor   | 50 mm   |
| Weight (without load)                                      | 62.5 kg   |
| <b>Load</b>  |   |
| Load surface   | 600 x 800 mm - ½ EU pallet  |
| Load weight  | up to 100 kg (if towing a cart up to 300 kg - see separate data sheet)    |
| <b>Speed and performance</b>                               |   |
| 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)                |
| Maximum grade increase                                     | 5% with 100 kg load   |
| Turning radius   | 0.55 m (around center of robot)   |
| Swinging radius (with trolley)                             | Length of trolley plus 0.55 m   |
| Positioning accuracy                                       | ±5 cm of position, ±1 cm to docking marker                                |
| Traversable gap and sill tolerance                         | 2 cm  |
| <b>Power</b>   |   |
| 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                    |
| <b>Environment</b>   |   |
| Ambient temperature range                                  | +5°C to 50°C (humidity 10-95% non-condensing)                             |
| IP class   | IP 20   |
| <b>Communication</b>                                       |   |
| WiFi   | Dual-band wireless AC   |
| Bluetooth (for peripheral equipment, e.g. automatic doors) | 4.0 LE, range: 10-20 m  |
| I/Os   | USB and Ethernet  |
| <b>Sensors</b>   |   |
| SICK laser scanners S300 (2 pcs.)                          | 360° visual protection  |
| 3D camera Intel RealSense™                                 | detection of objects ahead 5-50 cm above floor                            |
| Ultrasonic scanners (4 pcs.)                               | detection of transparent objects ahead, e.g. glass doors                  |
| <b>Top module</b>  |   |
| 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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