



Controller for Dual-steering-wheel Robot SRC-R10

Dedicated Dual-steering-wheel Robot Controller, Real-Time Performance via EtherCAT



Controller for Dual-steering-wheel Robot, Real-Time Performance via EtherCAT

Designed for dual-steering-wheel robots, dual LiDAR, and dual cameras are available for obstacle avoidance and recognition. With EtherCAT support, it meets the demand for more drives and easily adapts to complex upper-level designs, greatly enhancing scalability and flexibility. Multi-core architecture, real-time control, and hardware isolation ensure optimal safety and stability.



Advanced Navigation Algorithm, Intelligent Rerouting

The new path-planning algorithm enables autonomous obstacle avoidance, allowing the robot to smoothly navigate around obstacles and congestion for uninterrupted operation.



Codesys Compatibility, Flexible Development

Codesys plugin compliance with IEC 61131-3 standards empowers PLC engineers to adapt rapidly. Effortlessly swap CANopen drives and expand Modbus RTU peripherals (e.g., light strips, batteries, speakers) for agile customization.



4 Navigation Options, ± 5 mm High Precision

Supports SLAM, QR code, reflector, and NFL navigation to adapt to diverse operational needs. Delivers ± 5 mm accuracy even when robots approach from different directions or operate in high-dynamic environments.



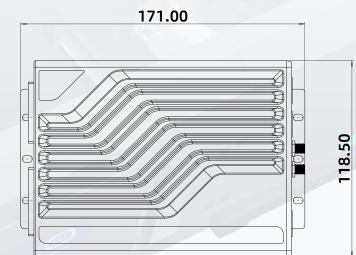
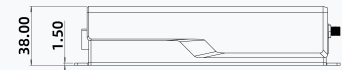
CE & UL Certification, Worry-Free Global Deployment

Certified by CE-EMC, CE-LVD, and UL, meeting international safety regulations and ensuring a worry-free global journey for your robot.

● Standard ○ Optional



Product model		SRC-R10
Basic parameters	Weight	0.75 kg (1.65 lb)
	L x W x H	171 × 118.5 × 38 mm (6.73 × 4.67 × 1.50 in)
Digital input & output	Power DO	2-Way (24 V / 1 A)
	DO	8-Way
	DI	10-Way
Bus interface	CAN	2-Way
	RS485	4-Way
	Battery communication interfaces	1-Way (RS485-0)
Internet interface	Ethernet	2-Way Gbps+1-Way 100 Mbps
	Wi-Fi	Wi-Fi 6: Dual-band 2.4G / 5G 802.11ax 2T2R
Other interfaces	USB3.0	2-Way
	Audio input / output	1-Way output
Robot-specific functions	One-button power ON / OFF	1-Way
	Battery switch	1-Way
	Emergency stop input	1-Way
	Emergency stop output	1-Way
Performance parameters	Navigation accuracy	±5 mm, ±1° (±0.2 in, ±1°)
	Driving speed	≤2 m/s (≤6.56 ft/s)
	Map area (single frame)	≤400000 m ² (≤4,305,560 sq.ft)
Function configurations	Basic functions	●
	Advanced motion model	● (only the dual-steering-wheel motion model)
	Advanced recognition function	○
	Codesys	○
Working environment parameters	Ambient temperature and humidity range	TEMP: -30°C to 55°C / RH: 10% to 90%, no compression, no condensation (TEMP: -22°F to 131°F / RH: 10% to 90%, no compression, no condensation)
	Working voltage	24 V
	Power consumption	<12 W (excluding DO output current)
	IP rating	IP20
Certifications	CE	Conform to EN 61010-1:2010; CE-EMC (IEC 61326-1), CE-LVD Standards
	ETL	UL/CSA 61010-1:2012+R1:2018;UL/CSA61010-2-201:2018



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