

Specified Controller for Autonomous Forklift **SRC-2000-F(S)**

Forklift-Specific Version of Safety Controller,
More Professional and Functional



2 m/s Speed, Forklift-Specific

Higher efficiency of robot operation, speed up to 2 m/s. It integrates all kinds of special functions of forklift. Plenty of parts adaptations and free model selection, enabling rapidly building AMR and fast delivery, free selection and worry-free building AMR.



±2 mm High Accuracy, Accurate and Stable

Support natural feature navigation and laser reflector navigation with accuracy up to ±2 mm. Stable operation in highly dynamic environment. Optimized skidding detection and solving strategy to avoid navigation accuracy reduction.



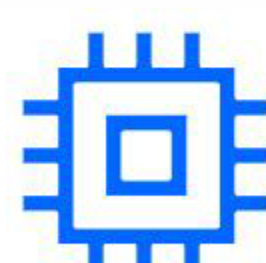
Automatic Route Optimization, Smooth and Efficient

Supports automatic batch optimization for routes, making robots movement more consistent and smooth.



New Calibration Technology, Intelligent and Easy to Use

The new calibration technology supports the calibration of all single steering-wheel forklifts, which can auto-check unqualified calibration results to improve the calibration efficiency. It also supports calibration for zero position of steering angle when forklift is working.



Double Computing Power, Comprehensive Upgrade

With upgraded RoboKit framework and hardware acceleration, it supports embedded APP development which enables stable and complex functionality and robust operation in various user cases.

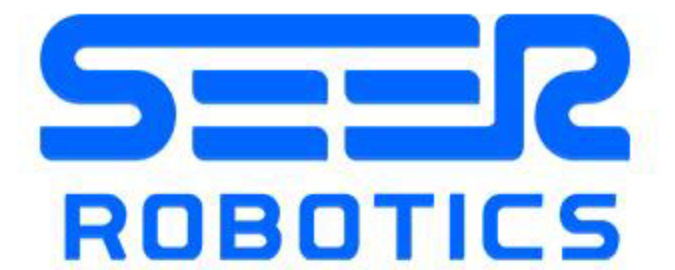


Complete Certification

CE-EMC certified, CE-LVD certified.

Parameter Specification

● Standard ○ Optional



Basic parameters

Product name	Specified Controller for Autonomous Forklift
Weight	1.73 kg
L x W x H	225.2 x 128 x 83.8 mm

Robot-specific functions

One-button power ON / OFF	1-Way
Battery switch	2-Way
Emergency stop input	1-Way
Emergency stop output	2-Way

Digital input & output

Power DO	8-Way (single-loaded 24 V / 2 A; 8-Way total load capacity ≤5 A)
DO	2-Way (400 mA)
DI	11-Way (NPN)

Performance parameters

Navigation accuracy	±2 mm, ±1° (Reflector)
Driving speed	≤2 m/s
Map area (single frame)	≤400000 m ²

Bus interface

CAN	2-Way
RS485	3-Way
Battery communication interfaces	1-Way (RS485)

Function configurations

Basic functions	●
Advanced motion model	-
Advanced recognition function	○
Advanced location function	○
Codesys	-

Internet interface

Ethernet	6+1 Way Gbps (1 is for extended Wi-Fi client)
Wi-Fi	Wi-Fi 5: Dual-band 2.4G / 5G 802.11ac 2T2R

Working environment parameters

Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation
Working voltage	24 V
Power consumption	48 W (excluding DO output current)
IP rating	IP42

Other interfaces

USB3.0	4-Way
Audio input / output	1-Way / 1-Way

Certifications

CE	Conform to EN 61010-1:2010, CE-EMC (IEC 61326-1) Standards
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Dimension (mm)

