Realize Sustainable Mobility

NIPPON SIGNAL

SC-Type Level Crossing Barrier Machine

SC : Smart Crossing

SC-Type Level Crossing Barrier machine

NIPPON SIGNAL

A new model with a design that blends into various landscapes, reduced maintenance workload for the future, and high reliability.

Feature 1

1 Design

- Design harmonized with urban and rural landscapes
- Compact and lightweight for easy installation and maintenance

Feature 2

2 New Control Unit

- Compact yet highly reliable with safety design equivalent to conventional models
- Optimized circuitry reduces operating current

Feature 3

3 Redesigned Reduction Mechanism

- Achieves quieter operation and reduced current consumption

Feature 4

4 Improved Maintainability

- Integrated control unit reduces parts and wiring
- Simplified adjustments with easy operation

Feature 5

5 Maintenance Efficiency

- Automatic acquisition of inspection data and communication function (optional)
- Compatible with Traio system

Feature 6

6 Improved Installation

- Separate structure allows stand/pole combination
- Lightweight design reduces installation effort

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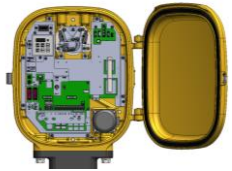
Achieves compactness light weight while ensuring ease of maintenance and higher cost performance.

Operating current (straight arm)	5.5A or less ※ Current Reduction Mechanism (Optional) Target Below 5.0A
Interference current	11A or less
Raising time	< 5.0s
Lowering time	5.0s–8.0s (adjustable in 0.5s increments)
Barrier length (straight arm)	Max 8m (breakage prevention device attachable)
Pole-Mount Compatible	○
Up/Down Status Output	2 Fixed Contacts
Failure Information Output	○
IoT function	Yes (built-in control unit)
Enclosure Material	Aluminum Casting
Dimensions	W405mm×D275mm×H1065mm
Weight	100kg or less



Compact and Simpler Design

- Ideal for narrow crossings
- door opens 160° or removable for easy maintenance

Reduced parts

- Integrated Control Unit
- Reduced Internal Wiring

lightweight design

- Lightweight Aluminum Used for Enclosure Material
- Compact Design Achieved by Using High-Strength Materials and Multi-Stage Reduction Mechanism

cast structure adoption

- 30% cost reduction compared to our conventional model
- Enhanced rigidity improves vibration damping and quietness

Please check the demo

miniature demo

The demo: obstacle setup

detection and communication with onboard tablet.