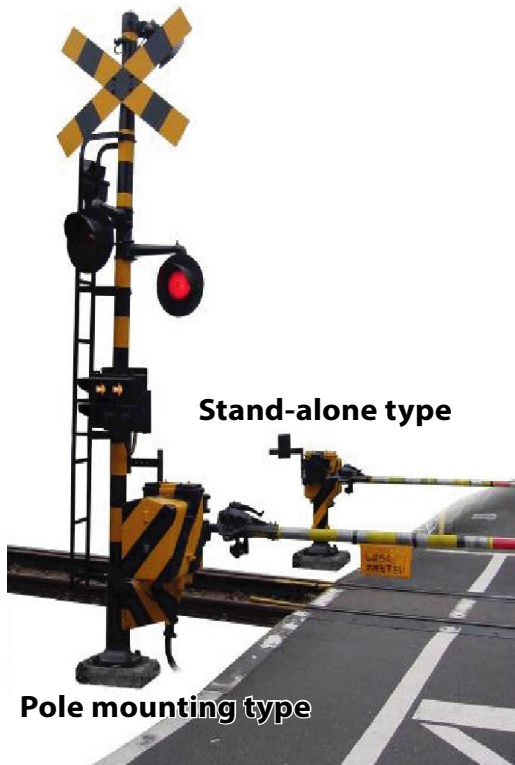


Level Crossing Gates

Level Crossing Gates with Enhanced Maintainability



The Level crossing gates play an important role to ensure the safety of level crossing. Our company has been designing and manufacturing over 2000 Level crossing gates every year by focusing on their long life and high reliability.

The Level crossing gates proposed this time have been improved so as to be operated safely even abroad based on our company's safety design and track records in local severe environment.

Table Level crossing Gate Specification

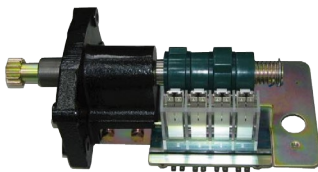
Item	12 VDC type (brush motor)	24 VDC type (brush motor)
Supply voltage [V]	DC12	DC24
Operating current [A]	7 or less	7 or less
Starting current [A]	10 or less	10 or less
Stopping current [A]	0.25 or less	0.25 or less
Operation time [sec] (rising)	5 or less	5 or less
Operation time [sec] (falling)	6 ~ 8	6 ~ 8
Gate arm length [m]	8 or less	8 or less

Features

Easy to replace parts unit-design

Replaceable unitized parts

- Control relay
- Circuit controller
- Motor brush



Circuit controller



Control relay

Relieved maintenance work

- Since the gears are wear-resistant, rust-proofed, and lubricated with grease, troublesome oil exchange is eliminated.
- The bearings are of no-oil-supply type so that an oil feed to bearing is unnecessary.

Maintenance cycle

Feed grease to gears once a year

Enhanced reliability and durability

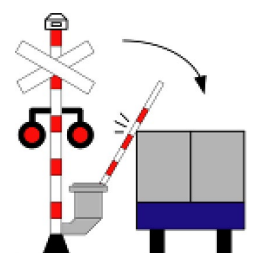
- The control circuit adopts a signal relay so that a malfunction is prevented, fail-safe characteristic is improved, and the reliability is increased.
- In order to detect a barrier bar position, a circuit controller is adopted by applying a signal relay technology. The fully sufficient large and twin contacts are adopted for contact capacity in the circuit controller so that poor contact is prevented and reliability is improved.

Useful life

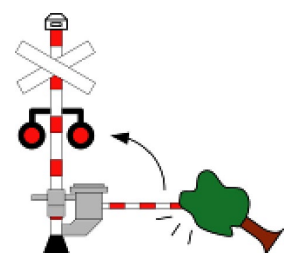
Earlier of ten years or a million times

Measures against blocking

When the barrier bar movement is blocked, the clutch slides and the shock power are mitigated at the time of collision with an obstacle so that the damage of internal mechanism is prevented. The clutch slides and runs idle during continuous blocking so that the motor's burnout is prevented.



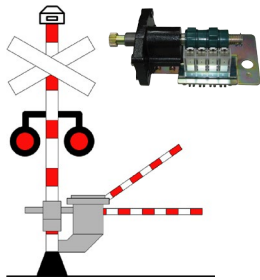
Obstacle in lowering bar



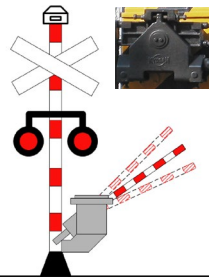
Obstacle in raising bar

Fine-tuning mechanism of barrier bar height

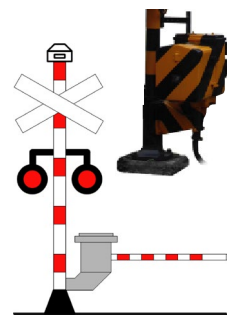
Selecting installation method



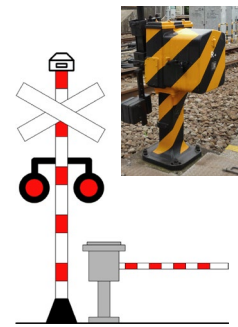
Rough-tuning with circuit controller at 6 degree step



Fine-tuning with horizontal tuning mechanism, vertically up to 3 degree continuous tuning



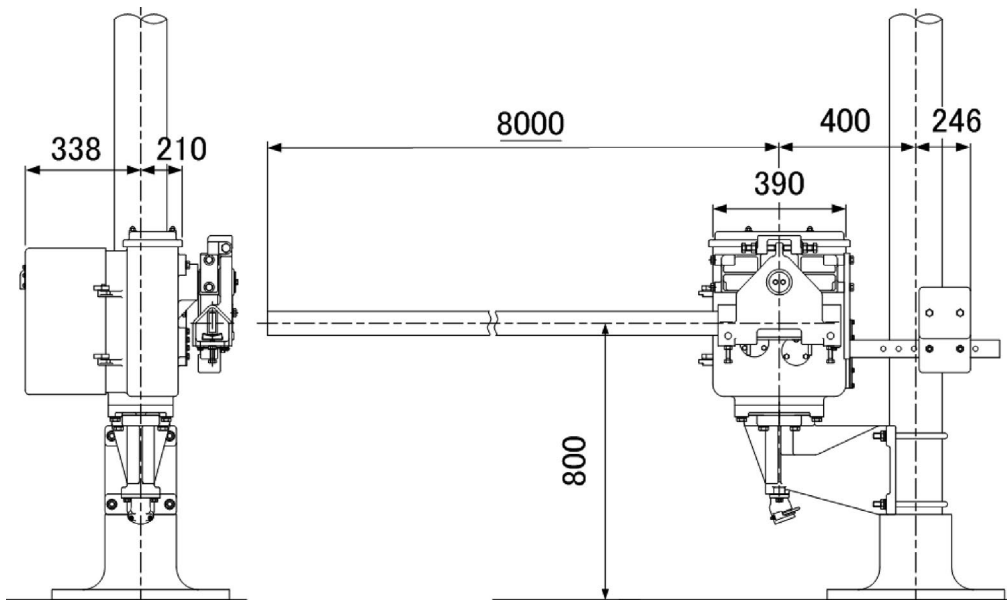
Pole mounting type



Stand-alone type

Appearance

Figure Level crossing gate outline drawing



Support for up to 8 m barrier bar



Installation example in Japan