



**SIEMENS MOBILITY**

# **S-60 Plus Grade Crossing Gate Retrofit**

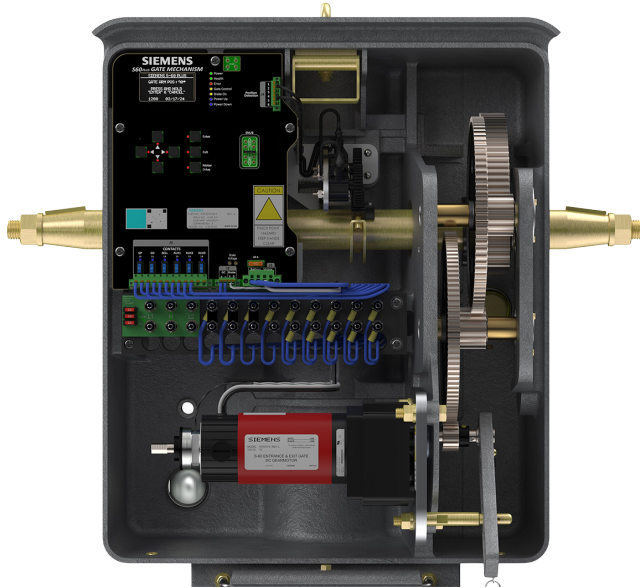
(Siemens Part Number NYK:074160-X500)

Siemens released the S-60 Plus Crossing Gate Mechanism in 2025 targeting the American Short Line and Latin America markets. As part of that product release, a field retrofit kit was created so legacy Siemens S-60 gate mechanisms can be upgraded to take advantage of the S-60 Plus technology.

The S-60 Plus replaces traditional mechanical cams and contacts with six programmable digital contacts. Two of these are dedicated for gate position indication and control of the flashing lights. In addition to diagnostic LEDs, the modern OLED display provides enhanced visibility into any reported errors, battery voltage, motor current, and internal supply voltages.

Siemens User Guide SIG-00-24-01 provides detailed instructions on how to convert a legacy Siemens S-60 gate mechanism to the new S-60 Plus, including on how to install new components (PC Board, Rotary Encoder Assembly and Wiring Harness), terminate all wires, program, calibrate and test the upgraded gate prior to commissioning.

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Siemens recommends that when upgrading existing S-60 mechanisms, that the gear motor (Siemens Part Number NYK:074070-X5) should also be replaced to maximize the remaining life expectancy of the gate assembly.

#### Features:

- Allows historical Siemens S-60 gate mechanisms to be upgraded to S-60 Plus technology
- More economical than complete gate mechanism replacement
- Adds considerable life to existing mechanisms, especially when combined with replacement of the existing S-60 gear motor
- Six Programmable Digital I/O Contacts (no cams & contacts)
- Modern OLED Display & LED Diagnostics

#### General Data:

- Operating Voltage: 11 to 16 VDC
- Operating Current: 6-15A @ 12 VDC (current varies with gate arm length)
- Hold (Vertical) Current: 320 mA @ 12 VDC (without auxiliary contacts)
- Circuit Breaker: 20 Amp, electronic auto restoration (reset in 10 secs)

#### Environmental Data:

- Operating Temperature: -40 °F to +160 °F (-40 °C to +70 °C)
- Humidity (Maximum): 90% non-condensing

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