

## **Model 9 Bridge and Security Gate**

- **Heavy-Duty**
- **Performance-Proven**
- **Select From Three Types of Arms Up To 40 Feet In Length**
- **Quick-Fix Configuration, With Mast-Mounted Mechanism**
- **Mounting Options Match Standard Bolt Centers**
- **Complete Line Of Accessories**

### **Introduction**

Since 1917, Western-Cullen-Hayes has provided long-service-life gate arm operators and accessories for bridge and security gate applications. This experience, and that of being the major supplier of high-reliability railroad crossing gate mechanisms in North America, enables us to manufacture products that reflect the latest developments in the application of materials and electro-mechanical design.

Familiarity with the market place has resulted in a bridge and security gate that reflects heavy-duty user needs.

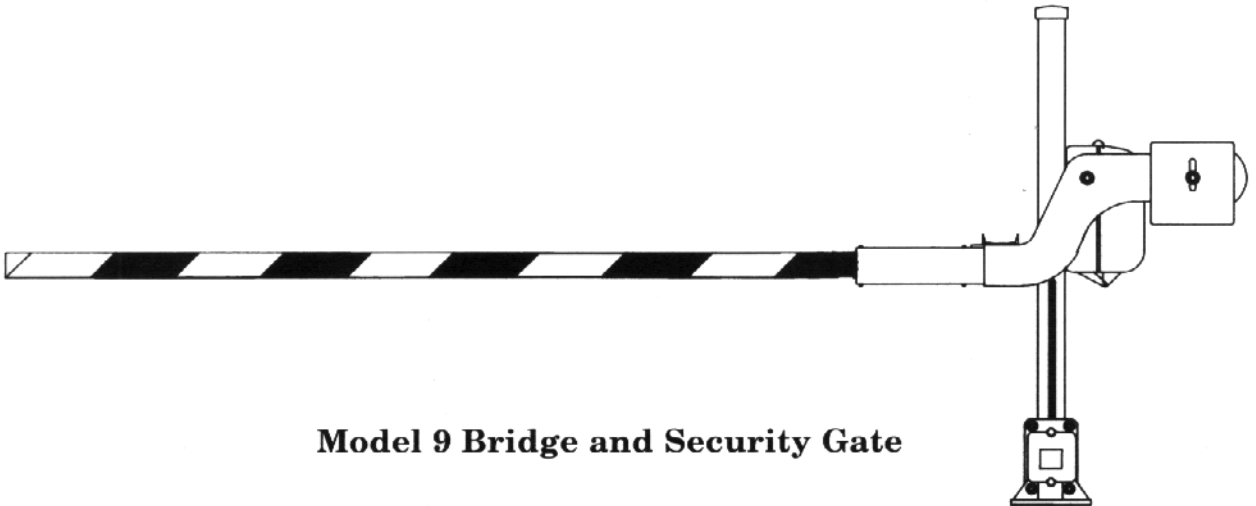
### **General**

Concepts utilized in the current products include modularity. Instead of being a single piece, the Model 9 Bridge and Security Gate is composed of a clamp-type junction box base, a mast, the gate arm mechanism and a gate arm with break-away feature. This design feature takes the work out of prior-to-installation, and installation handling. It also can significantly reduce the cost of maintaining a gate operator that has been struck by a vehicle. Most times, only component replacement is required instead of replacing the entire unit.

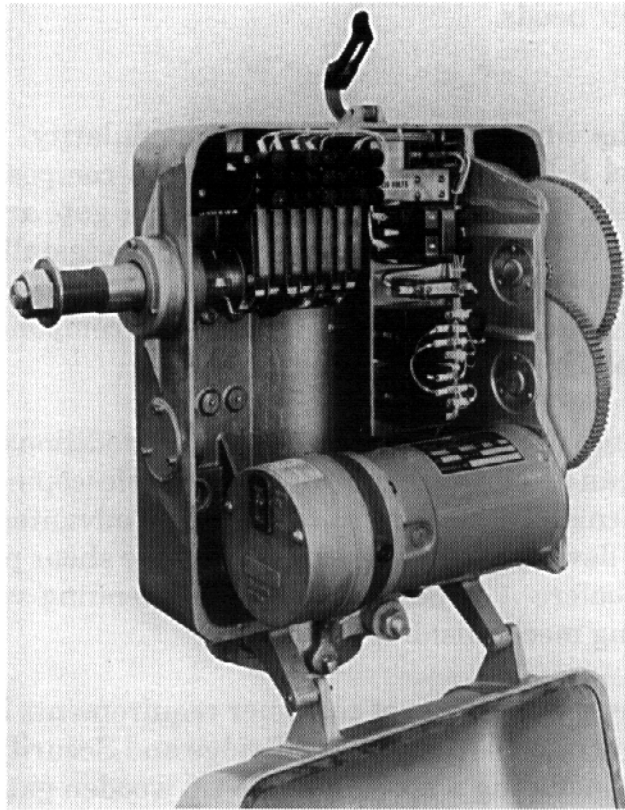
Modularity is carried into the gate arm as well. While traditional wooden arms are available, most needs can be met with our widely used telescoping style fiberglass or aluminum/fiberglass arms. These arms have the added advantage of being retained in place by breakaway device. Upon impact, one or more shear pins break, allowing the arm to fall away before it is destroyed by the offending vehicle and limiting damage to the operating mechanism.

Our years of addressing a wide range of customer requirements has led to a marked flexibility in the configuration of the Model 9 Bridge and Security Gate. In addition to choice of arm types (including a special, hinge-tip wooden gate arm that folds up like a jack-knife to clear overhead obstructions), we offer a wide selection of gate arm lights, accessory traffic signals, warning bells and revolving beacons.

## Model 9 Bridge and Security Gate With Type 3594 Gate Mechanism



Model 9 Bridge and Security Gate



Type 3594 Gate Mechanism

**WESTERN-CULLEN-HAYES, INC.**

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## Model 9 Bridge and Security Gate

### Gate Mechanism

The heart of the Model 9 Bridge and Security Gate is the Type 3594 Gate Mechanism. This rugged mechanism features:

- Heat treated segment gears
- Double bearing mechanism shaft
- Sealed, prelubricated ball bearings
- Immediately reversible operation
- Extra heavy-duty electrical contacts
- Rapid descending and clearing times
- Will operate gates to forty feet in length
- Can be hand cranked up or down in case of power failure

The shallow-well mechanism housing with a deep-well cover provides unobstructed access to all internal components.

### Electrical Specifications

- Input power, 110-120 VAC, 50-60 Hz, 8.0 FLA
- Internal power, converted to 110 VDC
- Bridge rectifier, 0-800 VDC, 35 A
- Motor, 110 VDC, 5.0 FLA
- Up and down control relays, 110-120 VAC, 50-60 Hz, 128 MA
- Four contacts available for user application
- Fused disconnect, 230 VAC, 30 A, with one time delay 8 A, dual element fuse
- Contact heater and brake heaters optional

### Gate Arms

- All fiberglass, lengths to 28 feet
- Aluminum/fiberglass, lengths to 40 feet
- Hinge-tip wooden arms to fold clear of over-head obstructions
- Wood, lengths to 40 feet

### Gate Lights

- Type 1590, 360 degree fresnel lens
- Type 1591, 4 inch diameter
- Type 1592, 7 inch diameter

Optional transformer and flasher panels are available to operate lights.

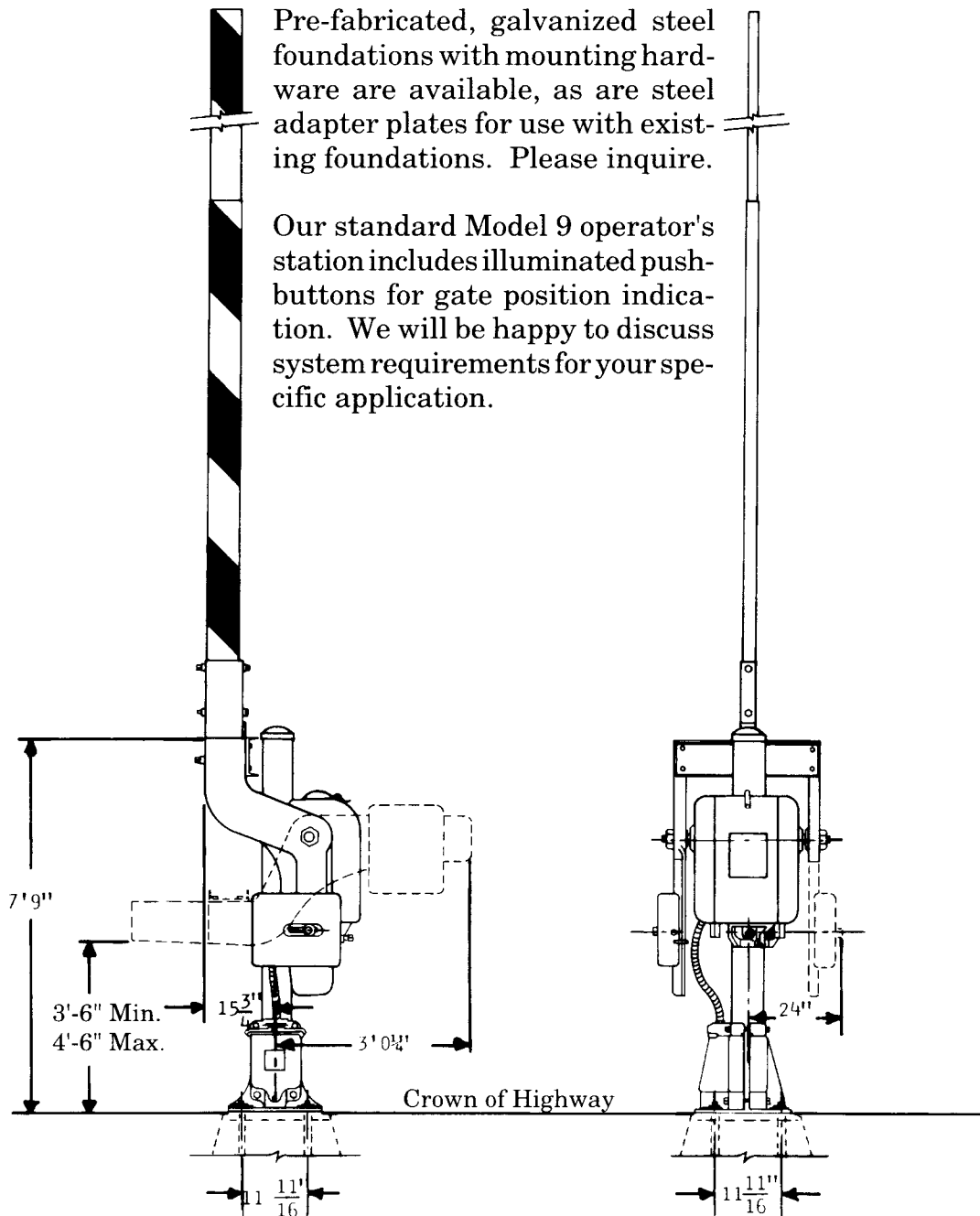
## Model 9 Bridge and Security Gate

### Warning Bells

- Type 0333-2, 6 to 16 volts AC/DC, solenoid driven
- Type 0666, 110 volts AC, solenoid driven
- Type 555, motor driven in a wide range of voltages

### Warning Beacons

- Rotating beacons in a wide range of voltages and colors



**Model 9 Signal with Type 3594 Mechanism**

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