



CAUTOR



## Electro-mechanical traffic detector

*Detection of a train at a given point on the track*

- Level crossing
- Signal control
- Points control in marshalling yards



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## Electro-mechanical traffic detector



**The CAUTOR system detects the presence of a train traveling along the track and controls all functions related to its passage:**

- Level crossing (gate and lights control)
- Signal control
- Signal light activation as the train approaches
- Points control in marshalling yards

### **Operating principle**

One high resistance stainless steel torque shaft set in a cast-iron housing absorbs the energy produced by the impact of the wheel and triggers the reversal of the electrical controls.

The upward movement of the arm is slowed down by an oil dashpot. This ensures sufficient switching time, whatever the time constant of the actuated circuits may be.

### **Installation**

The device is installed using a support fitting clamped to the base of the rail. Three types of support fitting are available, depending on the weight of the rail per linear meter:

- 30 to 40kg/m:  
(P18026 galvanized steel fitting)
- 40 to 55kg/m:  
(P18024 galvanized steel fitting)
- Over 55kg/m:  
(P18025 galvanized steel fitting)

### **Certification**

Equipment approved by the SNCF (French national rail operator), RATP (Paris transport authority) and many international railway operators.

- Detector weight: 8 kg
- Support fitting weight: 13 kg
- Cover locked by toggle latch with removable ring (anti-vandalism)

### **Technical characteristics**

- Guaranteed detection between 0 and 220km/h
- Continuous, independent "dashpot" delay adjustment from 0 to 13 seconds by rotation of a cone point set screw
- Two simultaneously triggered change-over contacts
- Contact capacity: 48V-50VA
  - 2 A max., on a resistance circuit
  - 0.5 A max., on an inductive circuit
- Electrical connection on 6 threaded terminals (6mm diameter)
- Incoming cable via cable gland
- Operating temperature between -30°C and 70°C
- Lifetime: 5 to 15 years depending on traffic intensity
- Detector weight: 8 kg
- Support fitting weight: 13 kg
- Cover locked by toggle latch with removable ring (anti-vandalism)



SNCF model