



Locomotive Onboard Equipment

Alerter System, Q2518

Rail Automation

The Siemens Alerter System Controller is a Locomotive Engineer reset timer that assures the locomotive crew is attentive to the operation of the locomotive at all times.

The Alerter is used in conjunction with the Q2505 Alerter Light/Horn box or Q1820 integrated Speed Indicator/ Alerter Alarm to provide visual and audible signals to the train crew. In the event that the train crew is unable to continue to operate the locomotive, and have not responded to the alerter system visual and audible alarms, the alerter system will initiate a penalty brake application of the train brakes.

Under normal operating conditions, the alerter system does not interfere with the customary activities of the engineer; since the alerter system is reset by all of the train crew operated locomotive controls.

The Q2518 Alerter has several important features:

- **Full redundancy** – The alerter controller incorporates two microprocessors that monitor all inputs to the alerter system but control one half of the alerter visual indicators and one of the two audible horns.
- **Speed Dependent Timing Cycle** – The alerter controller uses the locomotive speed signal to vary the alerter system timing cycle (time between alerter alarm indications). As the speed of the locomotive increases, the timing cycle decreases.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract

- **Body on Board (BOB)** – The alerter system requires one (1) acknowledgement of the visual and audible alarm indications before the system will increase the timing cycle above its most restrictive setting. The BOB feature insures that a minimum distance will be traveled if the locomotive brakes are released without a crew member on board that is capable of operating the locomotive.
- **Repetitive Reset Disable** – The Q2518 Alerter System Controller monitors the manual reset switch input for the presence of repetitive inputs. Any mechanical or electrical means of providing repetitive resets to the manual reset switch input will not be processed as a valid timing or alarm cycle reset.
- **Maintainability** – The Q2518 Alerter System Controller features a self test mode, allowing railroad maintenance personnel to quickly evaluate all functions and reset inputs. Serviceability – The components of this system are modular in design, allowing each component to be changed quickly, when required.

Please contact your Siemens Rail representative for more information.

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