



Wig-Wag

Controller and signals

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The Siemens Wig-Wag system is a complete solution for the provision of priority signals at fire and ambulance stations. The signals may also be used in other locations such as bridge crossings where there is a need to stop ordinary traffic flow but where it may be difficult for a driver to forecast when he/she will be required to stop.

The system comprises an ST950 controller together with Wig-Wag signals that meet the requirements laid out in TSRGD (Diagram 3014). The signals may be activated by a simple push button or a more elaborate activation box if required.

Combined Wig-Wag and Intersection operation

The ST950 controller is approved to both TR2500 and TR2513 which allows it to be used in stand alone Wig-Wag applications and also for full intersections where Wig-Wags are required nearby.

Where Wig-Wags are required in combination with normal intersection operation the Siemens solution is particularly efficient and offers improved safety of the overall installation, as both the traffic signals and Wig-Wag signals are covered by a single controller safety system.

LV and ELV support

Both LV and ELV systems are available. The use of ELV ensures that the enhanced electrical safety currently possible for intersection and pedestrian sites can be extended to Wig-Wag installations.

Reliable LED signals

Both LV and ELV Wig-Wags utilise the latest generation of low power CLS LED signals. Lamp monitoring is undertaken directly by the controller on both LV and ELV signals, eliminating the need to fit lamp monitoring equipment within the Wig-Wag signals, ensuring power usage is kept to a minimum.

- Complete LV and ELV systems
- LED CLS Wig-Wag compliant with TSRGD
- Diagram 3014
- Signal aspects conform to EN12368
- Controllers approved to TR2500 and TR2153
- Supports stand alone Wig-Wags and operation as part of intersection
- Full lamp monitoring of Wig-Wag aspects
- Range of activation box options

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Flexible activation

Typically Wig-Wags are activated by a button within the fire or ambulance station. Where just a simple button activation is required this may be implemented with a Puffin Demand unit, using the demand indicator to signal back that the controller has registered the demand.

Where a more sophisticated control system is required a full activation box is available to meet the functional features implied in the Wig-Wag Traffic Advisory Leaflet.

As well as the signal activation button this also provides:

- A mimic of the Wig-Wag signals. These are activated whenever the on-street Wig-Wags are operational
- An indication that the controller is powered and functioning correctly
- A visual indication that one of the red Wig-Wag signals has failed (The Red Lamp Monitor LED will flash)
- An audible indication that there is a red signal failure – this can be cancelled by the operator using the 'Cancel Audible Alarm' button
- An audible indication that the power to the controller has failed or there is a major controller fault. (This cannot be cancelled unless the power is restored or the fault is fixed)



Full Activation Box

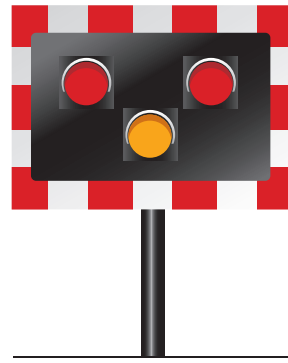


Diagram 3014

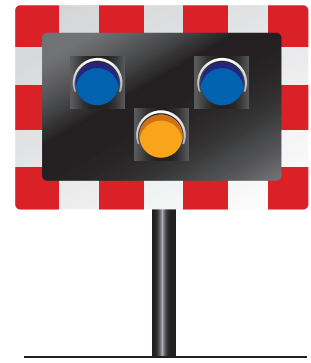


Diagram 3014
(Blue Repeater)

Technical specification

Approvals

- Controllers: TR2500 and TR2513 (Appendices A to D)

Wig-Wag signals

- TSRGD (Diagram 3014). EN123168 - 400cd phantom, class 5. (Signals can be dimmed for night time operation).
- Blue aspect full size repeaters

Electrical

- Input power supply ($\pm 15\%$): 100V, 110V, 220V, 230V, 240V AC RMS
- Supply frequency: 50/60Hz $\pm 4\%$

Environmental

- Designed to meet: UK TR2500, EN12675, EN50278
- Supply interruption: Continuous operation up to 50ms break
- Supply failure: Automatic restart without operator intervention
- Operating temperature range: -25°C to $+70^{\circ}\text{C}$

Controller dimensions

- Height: 1160mm
- Width: 725mm
- Depth: 420mm

Activation system

- Simple push button and demand accept indicator
- Full Activation panel as per functional description in Highways Agency Traffic Advisory Leaflet 1/08 – Wig-Wag Signals
- Operating temperature: -15°C to $+60^{\circ}\text{C}$

Physical options and part numbers - Signals

- 667/1/33550/000 - Helios Wig-Wag CLS (LV)
- 667/1/33550/100 - Helios Wig-Wag CLS (ELV)
- 667/1/33550/500 - Helios Wig-Wag CLS (LV-BLUE)
- 667/1/33550/600 - Helios Wig-Wag CLS (ELV-BLUE)
- 667/7/33557/000 - Wig-Wag Full Activation Box

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