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Switch and Crossing Confirmation Gauge (P4670)

Track Control Solutions

The Switch and Crossing Confirmation Gauge (P4670) has been specifically designed to carry out dimensional checks within the moveable part of a switch unit. The gauge measures free-wheel clearance (the distance between the running edge of the stock rail and the rear face of the adjacent switch rail), free-wheel passage (the distance between the rear face of an open switch and the running edge of the closed switch) and the switch rail wear profile.

Made of electrically non-conductive GRP and nylon, the gauge does not interfere with the track signalling circuit so is suitable for use in areas of 3rd and 4th rail electrification. Extremely versatile, it is available in both imperial and metric versions for multiple track widths and can be provided with alternative wheel profiles.

TECHNICAL FEATURES

Non-conductive

Constructed from hardwearing GRP and nylon, the gauge is electrically non-conductive and will not interfere with the track signalling circuit.

Imperial and metric

Available in imperial and metric versions for multiple track widths and can be provided with alternative wheel profiles.

P8 wheel profiles

P8 wheel profiles have been fitted to the top of the gauge to aid the visual inspection of wear on the switch rail.

Customisable P-points

The standard rail head measure 14mm below the top of the rail. Alternative P-points can be specified.

Electronic measurements

Super-elevation (SE) is measured electronically and is shown on an LCD display.

Mechanical measurements

Track gauge, check gauge and flangeway are measured mechanically, with readings displayed through a clear polycarbonate window on a linear scale.

Battery powered

The unit is powered by two standard 9V PP3 batteries and the battery life for average usage is 12 months. The batteries can be replaced by the operator as needed.

ADVANTAGES

- The equipment's sprung gauging foot, with all measurements displayed on the usable end of the gauge, ensures improved repeatability and accuracy of measurements, whilst minimising potential for user error.
- Because the gauge is made of electrically non-conductive GRP and nylon, it does not interfere with the track signalling circuit and can be used in areas of 3rd and 4th rail electrification.
- The gauge is versatile, capable of use to inspect wear on the switch rail as well as measuring free-wheel clearance and free-wheel passage.
- The product can be used in a wide range of settings – there are versions for different track widths and alternative wheel profiles can be provided.
- The Switch and Crossing Confirmation Gauge is extremely lightweight, weighing under 3kg. This makes it easy to carry and transport to site.

COMPONENTS

Sprung foot
P8 wheel profiles
Mechanical measurement scale
LCD digital display
Batteries

SPECIFICATIONS

Physical specification	
Weight	2.8kg
Size of gauge	1500mm x 300mm x 200mm
Free-wheel passage	Range: 1360mm to 1400mm Accuracy: +/-0.5mm Resolution: 1mm
Free-wheel clearance	Range: 35mm to 125mm Accuracy: +/-0.5mm Resolution: 1mm
Switch opening	Range: 35mm to 125mm Accuracy: +/-0.5mm Resolution: 1mm
P8 wheel profiles	Back-to-back dimension: 1360mm

Flangeway and check gauge scale

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