**T-COD**

**Track Circuit Operating Device**

P&B Weir Electrical is a UK owned and operated company providing leading technology electrical system solutions to Industrial and Utility customers worldwide.

The equipment types ‘CE59/FB’ and ‘CE59/BH’ T-COD have been designed and type tested in order to meet the detailed requirements of Railtrack Line Specification RT/E/S/21136.

The T-COD (Track Circuit Operating Device) is a portable equipment used to present a low impedance circuit between two running rails in order to form a track circuit. This provides protection for persons working upon railway lines under track possession by safely and reliably operating the track circuit to an occupied state.

The CE59 T-COD Equipment is suitable for use upon track circuit electrified and non-electrified lines. It is not for use where a checkrail is present alongside a running rail or a fourth rail is present.

The CE59/FB T-COD is suitable for fitment to all types of ‘Flat Bottomed’ rail in common use by Railtrack, specifically 98lb, 109lb, 113lb, UIC 60, 110A and 113A. The CE59/FB T-COD is readily identified by its yellow clamp insulation. The CE59/BH T-COD equipment is suitable for attachment to 95lb RBS ‘Bull Head’ rail.

The CE59/BH equipment is readily identified by its orange clamp insulation. The interconnecting copper lead has a 2kV rated insulation, this is coloured red in order to aid visibility on site.

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<th>Product Benefits</th>
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<td>• Rugged construction</td>
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<td>• Suitable for fitting to all common types of running rails</td>
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<td>• Excellent corrosion resistance</td>
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**P&B Weir Electrical Products**

P&B Weir Electrical design and manufacture a range of products, including the following:

• Portable Earthing Equipment for EHV sub station and overhead line applications
• Gas and oil operated 'Buchholz' transformer protection relays
• Electrical Instruments and Test Equipment

**Quality Assurance**

P&B Weir Electrical maintains a high quality system in accordance with ISO 9001:2008 which is fully inspected and certified by AFNOR Ltd.
Both rail foot profiles are accommodated by combination of a pivoted anvil (lower) block and a profiled contact block / 'bull nosed' tip assembly. Each of these components is hardened and electro-less nickel plated to provide high wear resistance. The hardened 'bull nosed' tip incorporates a slot for removal of heavy oxide and grime coatings, often present on rails, and ensures a large contact area is made with the rail. A wiping action is incorporated between contact parts directly upon the contact bar to ensure that a good electrical path is maintained through repeated applications. Positive location and retention of application force is provided by use of disc spring washers on the operating screw assembly.

The equipment is easily portable, weighing 3.4 kg (7lb. 7ozs). A high-visibility PVC carrying bag is available to offer protection for the T-COD whilst being transported and stored. The assemblies are provided with an insulated operating key to deter unauthorised removal or tampering. The clamp 'body' is fabricated from galvanised steel. All fittings are plated to provide protection from the atmosphere, as well as avoiding galvanic reaction. All parts can be easily serviced or repaired due to the simple construction, and a full range of spares is available direct from our manufacturing site.