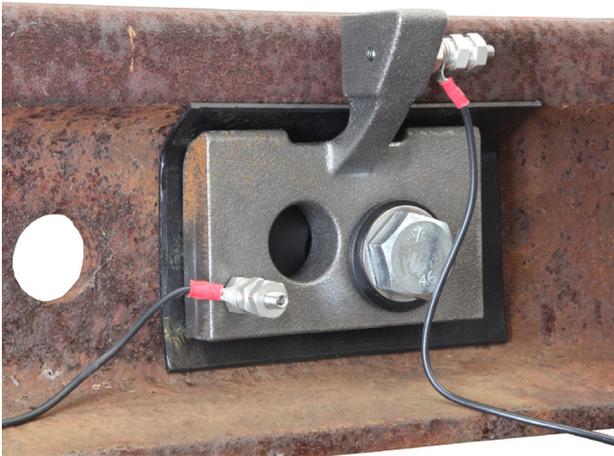


www.siemens.com.au/rail-components

Clearguard[®] Track Circuit Interrupter

Protection at Catch Points and Buffer Stops



Benefits

- Drops track after catch point run through
- Drops track after passing buffer stops
- Protects at low cost
- One size fits all common rail sizes 47, 50, 53 & 60 kg/m
- Interfaces to the existing track circuits
- Interfaces to interlocking

Improves Safety

The Siemens track circuit interrupter prevents track vacancy to be detected when:

- a wagon runs through catch points and ceases to shunt track
- a train runs through friction buffer stops

Interlocking can then protect train movements on adjacent lines.

Simple, Reliable, Minimal Maintenance

Extend the functionality of existing track circuits to detect possible track fouling with no active components. Simply wire track leads through terminals or wire terminals to a dedicated interlocking input.

Description

The Siemens track circuit interrupter is a frangible iron casting with insulation and fixings that bolts to the inside of the catch point rail. It is wired in series with the receive lead of the main track's track circuit, or directly to an interlocking input. The interrupter is a non-vital indicator that gives an indication of a run through, and can enhance protection of existing systems; however, it must not be solely relied on.

Any wagon running through the catch points or buffer stops will fracture the track circuit interrupter and open the receive lead of the track circuit, or the direct interlocking input, removing clear indication. Railways can choose subsequent action, such as generating an alarm or occupying potentially affected tracks.

Installation

The Siemens track circuit interrupter bolts to the rail with a M20 bolt, drilled ± 5 mm of the rail neutral axis. Install it on the inside (flange side) of the catch point or buffer track at recommended distance (see A in bottom figure) from the toe of the points. Choose mounting holes on casting according to rail size.

Railtrack Line Product Specification RT/E/PD/11764 provides some typical installation details. You should assess these for suitability at the intended location.

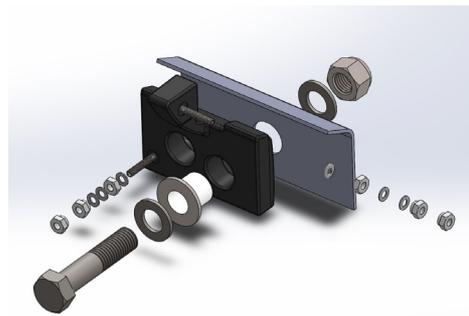
Ordering

Complete Kit
Part number **355101201**

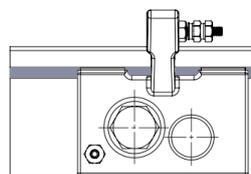
The kit includes all parts: interrupter casting, all insulation, stainless steel mounting bolt, track circuit connections, washers and Nyloc nut.

Specifications

Size	120 mm wide, 118 mm high, 72.5 mm thick
Mass	1.7 kg
Rail sizes	47, 50, 53 or 60 kg/m (using same part)
	One kit fits all nominated rail sizes, but installation is different (see second figure below)
Rail mounting hole	21 mm
Track terminals	M6 stainless steel stud with stainless steel nuts, washers and lock nuts
Insulation from rail	2 kVac



HARDWARE ASSEMBLY POSITION FOR 47KG & 50KG RAIL PROFILES



HARDWARE ASSEMBLY POSITION FOR 53KG & 60KG RAIL PROFILES

