



Electronic Treadles

An alternative to the current electro mechanical (Silec) treadle and base



Product Approval No PA05/02605

No moving parts or component wear

Significant maintenance reductions

Reduced vandalism / false operation

Eliminates the need for hydraulic oil

Supplied as kits using one catalogue number

For use on uni or bi-directional lines

This is a significant improvement on the traditional “armature operated” version as it has no moving parts, so has a longer in-service life, with lower maintenance costs.

Kitting Information

Kitting has been introduced to provide installation teams with all materials required for each single treadle installation.

Description	I131b	CEN60	951b
Uni-Directional, ETU D, 36-160 Vdc, 90 – 264 Vac, 50 kHz and 39 kHz	K050/555700	K050/555701	K050/555702
Bi-Directional, ETU A, 36-160 Vdc, 90 – 264 Vac, PSU, 50 kHz	K050/555703	K050/555704	K050/555705
Bi-Directional, ETU A, PSU, 36-160 Vdc, 90 – 264 Vac, 39 kHz	K050/558166	K050/558167	K050/558168
Bi-Directional, ETU A, PSU, 36-160 Vdc, 90 – 264 Vac, 50 k and 39 kHz	K050/555706	K050/555707	K050/555708
Bi-Directional, ETU D, 36-160 Vdc, 90 – 264 Vac, PSU, 50 kHz *	K050/558169	K050/558170	K050/558171
Bi-Directional, ETU D, 36-160 Vdc, 90 – 264 Vac, PSU, 39 kHz *	K050/558172	K050/558173	K050/558174
Bi-Directional, ETU A, 24 Vdc, 50 kHz	K050/558175	K050/558176	K050/558177
Bi-Directional, ETU A, 24 Vdc, 39 kHz	K050/558178	K050/558179	K050/558180
Bi-Directional, ETU A, 24 Vdc, 50 kHz and 39 kHz	K050/558181	K050/558182	K050/558183
Bi-Directional, ETU D, 24 Vdc, 50 kHz *	K050/558184	K050/558185	K050/558186
Bi-Directional, ETU D, 24 Vdc, 39 kHz *	K050/558187	K050/558188	K050/558189
Uni-Directional, ETU D, 24 Vdc, 50 kHz and 39 kHz	K050/558190	K050/558191	K050/558192

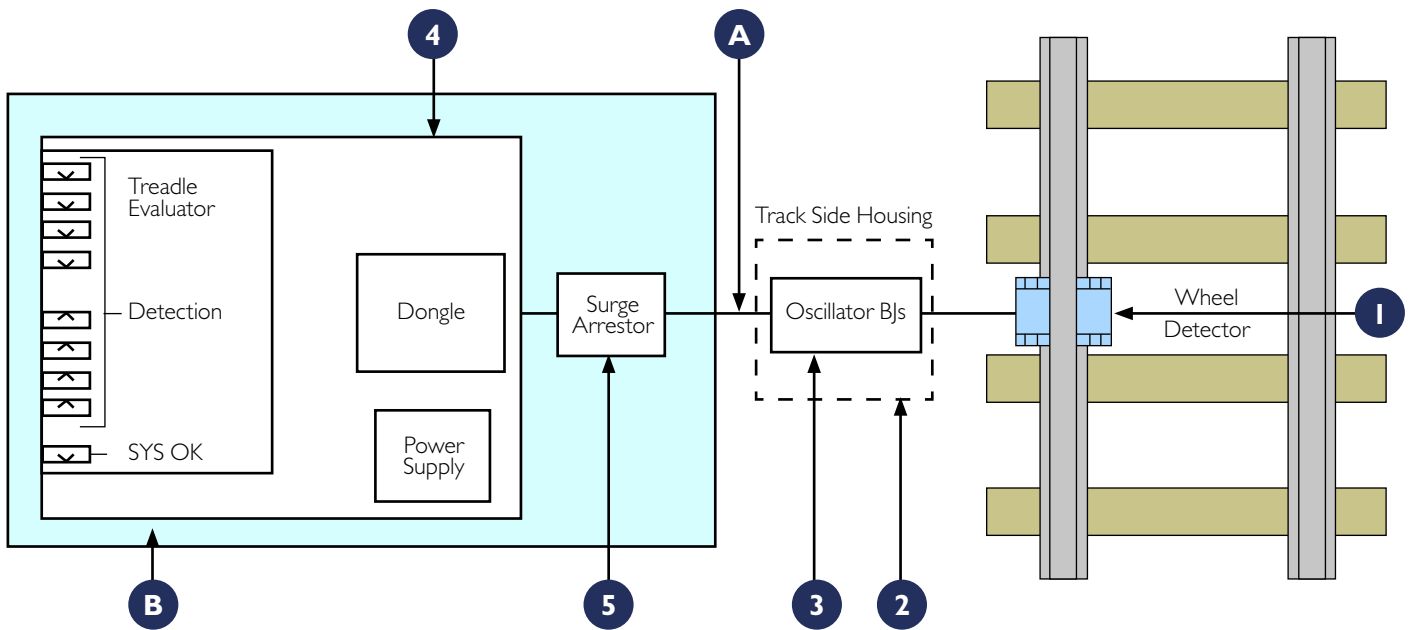
* Special Applications

Each kit contains:

- Set of wheel detectors with rail fixing bolts or clamps and rail inserts
- Full installation kit including nuts, bolts, washers and 4m protective tubing
- Trackside housing (mushroom) with stand, electronic units and terminal blocks
- Electronic Treadle Unit (ETU) (Type: ETU-A for bi-directional and Type : ETU-D for uni-directional) including multi voltage power supply and 8 or 3 second dwell time dongle. Power supply operation for 40 to 160 Vdc and 90 to 260 Vac. ETU fits within 3 x BRB relay spaces
- 2 Power supply options (a) 36 to 160 Vdc and 90 to 260 Vac (b) 24 Vdc
- Surge arrestor
- Suitable for all traction environments including AC and DC electrification
- Detection suitable up to 250 mph



Equipment building/enclosure



GE imagination at work

Key:

1. Wheel detector complete with 4m cables – clamped to rail
2. Trackside housing (mushroom) complete with stand for mounting
3. Electronic trackside units with termination blocks
4. Electronic Treadle Unit (ETU) complete with 36 to 160 Vdc and 90 to 260 Vac or 24 Vdc. psu, dongle, and Treadle Evaluator to suit unidirectional or bidirectional traffic.
5. Surge arrester
 - A. Type C2 2 or 4 core cable depending on design constraints (maybe existing)
 - B. Location case/Equipment Housing (maybe existing)

Notes:

Items 1, 2, 3, 4 and 5 supplied in kit format including all nuts, bolts, washers and protective tubing.

Number of BJs only (1&2) depending on application. Only 1 off BJ required in the majority of cases.



The above image displays assembled parts on site

In addition to the above there are further 2 parts (Surge Arrester) & (Evaluator) which are fitted within the location case or REBs.

In selecting the correct kit, Customers must select the key items as follows:

- Rail Section
- BJ Units (1 off) or (2 off)
- Standard Kit Parts
- Evaluator
- Dongle Dwell Time

About Unipart

The Unipart Group is a leading UK manufacturer, full service logistics provider and consultant in operational excellence. Operating across a range of market sectors, including automotive, manufacturing, mobile telecoms, rail, retail and technology, Unipart offers a breadth of services to a wide range of blue chip clients internationally.

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