

RAILWAY SAFETY EQUIPMENT



Tab 14



PORTABLE EARTHING EQUIPMENT FOR RAILWAY



Safety Warning!

Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for safety use. Failure to follow the safety rules can cause fire, trouble, electric shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

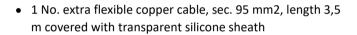


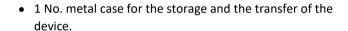
PORTABLE EARTHING AND SHORT CIRCUIT DEVICE FOR THE 3rd & 4th Rail

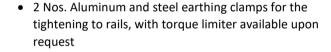
Item Code

DSSB-RAIL-PEE-MAT CC 3/4 RAIL

- 1 No. brass clamp, DIN tail, with screw tightening and handle; clamp capacity on rail contact from 60 to 95 mm.
- 1 No. fiberglass insulating stick in epoxy resin. Length=1,5
 m configuration in 2 elements, to be assembled through
 coupling with "simplex" stop ring. End cap and hand
 guard.



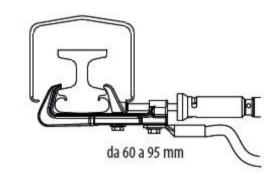


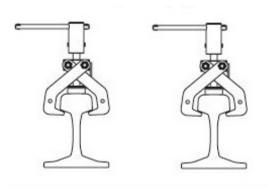


In accordance to IEC 61230

The device can sustain a ICC of 40 KA for 0,25 second; 30,3 KA for 0,5 second and 21,4 KA for 1 second









SUBWAY EARTHING AND SHORT CIRCUIT MOBILE DEVICE FOR 3rd RAIL

Item Code

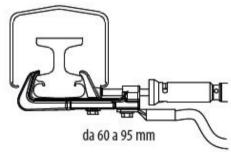
DSSB-RAIL-PEE-MAT CC 3° RAIL

- 1 no. Aluminum and steel earthing clamp for the tightening to rails, with torque limiter available upon request
- 1 no. extra flexible copper cable, sec. 95 mm2, length 3,5 m, covered with transparent silicone sheath
- 1 no. brass clamp, DIN tail, with screw tightening and handle; clamp capacity on rail contact from 60 to 95 mm
- 1 no. green fiberglass insulating stick in epoxy resin length = 1.5m. Configuration in two elements with length 750 mm each, to be assembled through coupling with "simplex" stop ring. End cap and hand guard.
- **1 no**. metal case for the storage and the transfer of the device.

In accordance to IEC 61230









The device has 95mm² cables' section so that it can sustain a ICC of 40 KA for 0,25 second; 30,3 KA for 0,5 second and 21,4 KA for 1 second



SUBWAY BIPOLAR VOLTAGE DETECTOR 75-1500 Vcc FOR THE 3rd & 4th Rail

Item Code

DSSB-RAIL-PEE-RCO-ALS / QA

Design Features:

Operational range: 75 Vdc÷1500 Vdc Maximum

operational voltage: 1500 Vdc Warning:

optical and acoustic:

- No warning for voltages below 40 Vdc
- Safe alarm for voltages over 75 Vdc

Self-test: at the turn on and automatically repeated every 3 seconds through "**OK**" check warning.

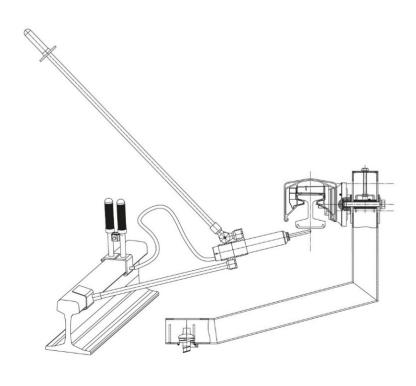
Turn off: automatic temporized or through following pressure on the press button.

Supply: 1 x 9 V battery.



Packing: plastic box or supplied together with short circuit kit







Operating Pole Kit

Item Code	Item Details
DSSB-DLE-PEE-0091/002356	Top Section Pole
DSSB-DLE-PEE-0091/002061	Intermediate Section Pole
DSSB-DLE-PEE-0091/002470	Primary Insulator Pole
DSSB-DLE-PEE-0091/002480	Bottom Section Pole
DSSB-DLE-PEE-0091/001986	Dispensing Head / PB Adapter
DSSB-DLE-PEE-0091/002559	Carry Bag

Description:

The Operating pole kit is suitable for applying a range of isolation earth leads to designated earth points and overhead cables.

Operating poles are manufactured from a lighweight resin-impregnated, electrical insulation grade fibre glass.

A number of intermediate poles can be selected to make up a longer length pole. The precision snap action joints and tight telerances minimise flexure of the pole assembly The lower pole is supplied with a ongrip to provide a guaranteed grip., and a rain shield is also fitted to keep this section dry.

A bag is provided for careful storage and handling.

The Operating Pole Kit comprises:

- 1 x Top Section Pole
- 3 x Intermediate Section Poles
- 1 x Primary Insulator Pole
- 1 x Bottom Section Pole
- 1 x Dispensing Head with PB Adapter
- 1 x Carry Bag









DEP Short Rail Earth

Item Code

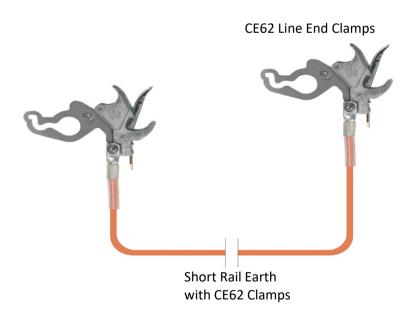
DSSB-RAIL-PEE-SRE

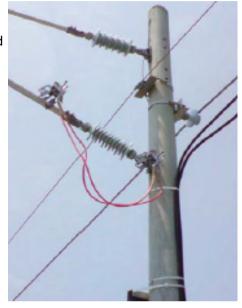
The short rail earth (DEP) attaches a 1.5m orange aluflex earth lead from the earth cantilever to a steel mast spigot at a designated earth point. The kit can consist of CE62 and isolation earth leads.

Accepted for use on all Network Rail (UK) controlled 25kV Electrified lines when used in accordance with NR/L3/ELP/29987 and NR/OLE B15.

Flexible aluminium earth leads with fully tested and fault-rated compression terminations and support sleeves are used for interconnecting conductor clamps to various earth points. The standard nominal cross section is of 50sq.mm.

Operating poles sets are also available for application of the earthing leads or cramps.













Item Code

DSSB-RAIL-PEE-D3/LLI

Description:

The D3/LLI Live Line Indicator is a resistive type voltage detector designed for use on overhead a.c. rail electrification systems operating at 25kV nominal voltage. The 'LLI' threshold is specified as 12kV ± 5%, however it should be.

The unit is designed to be mounted on approved fibreglass earth poles with the pole immediately below the indicator being the primary insulator (ref EFT-17451 - 0091/012470). The signal emitted by the D3/LLI is both audible and visible. Power is provided by a rechargeable battery, housed within the main unit. The battery can be charged in site using the charger supplied.

The unit comprises a main unit and a contact probe. The contact probe is manufactured from lightweight fibreglass tubing and houses the calibrated resistor stack. The pole section is foam-filled to increase its voltage withstand. The probe is connected to the overhead line by a replaceable aluminum hook. The top of the pole is coated in a special high reflectivity paint to ease visibility when applying the indicator in poor lighting conditions.

The limit of contact with the overhead line is clearly defined by a red limit collar fixed to the pole.

The contact probe screws into the main unit with a special screw connector to minimise flash-over.

Product Benefits

- Audible and visual warning
- Self-test function
- Fully interchangeable
- Insulation tested
- Compatible with primary insulator poles
- True 12kV + 5% Threshold











VOLTAGE DETECTOR



Safety Warning!

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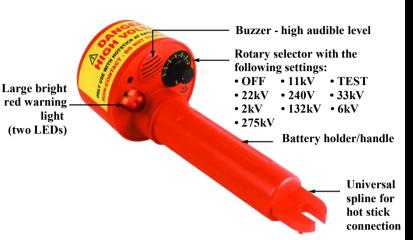
VOLTAGE DETECTOR

Non-Contact High Voltage Detector

Item Code

DSSB-SSE-PEE-278HP





Features:

- Protection class: IP65
- 3 LED indicators in a circle for easier viewing in
- any directions (360° LED indication)
- · Voltage bright LED visual indication
- Sound indication
- Power source: 1.5V"C" type battery x 3
- Compatible with most hot sticks.
- · Lightweight, robust & compact

Specifications:

Operating temperature : -10° \sim 50°C Storage temperature: -20°C \sim 60°C

Humidity: 85%R.H @40°C

Case height : 265mm Case width : 117mm

Weight (batt incl.): Approx. 600g Power source: 1.5 "C" x 3 alkaline

batteries

VOLTAGE DETECTOR

Beacon Voltage Detector

Item Code

DSSB-SSE-PEE-BVD

Beacon is designed for both indoor and outdoor use as the circuitry is housed within a durable plastic moulded body.

With an audible alarm, and visible warning light, the Beacon is simple to use, and is suitable in poor visibility. The unit is a capactitve type and does not require a down-lead, which greatly reduces the risk to the operator caused where fault protection can be grounded.

The sounder, LED's, 'ON/OFF' and 'TEST' buttons are mounted on a fascia plate facing the operator. The unit is simple to use and incorporates a self-test facility which confirms the operating circuit prior to use.

A durable case is supplied to transport the unit, its contact probe and pole fitting. As standard, each unit is supplied with a standard castellated fitting suitable for use with standard castellated pole heads. Also supplied is a long tapered type socket fitting for use with standard OLE clamp operating pole heads. A 'Y' type contact probe is also supplied as standard. Other fittings are available upon request.

- Visible and audible detection.
- Suitable for fitting to standard operating poles head.
- Built-in test facility
- Battery operated (easy change)
- Rugged construction
- Voltage ranges 5-12kV and 10-36kV available
- Twin LED indication
- Lightweight
- Easy to use
- Supplied in a sturdy carry case

Benefits

- Built in test facility
- Battery operated. (Easy to change)
- Rugged Construction
- Lightweight





Top Section Pole

Bottom Section Pole

Supplied with

- Durable case
- Y Contact Probe
- Universal Castellated Adaptor
- Long Taper Operating Socket Adapter.







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Prüfball SPB Digital





500 V- or 1000 V-LCD available



Switchable load now also with CAT IV 1000 V

The Prüfball SPB digital combines modern microcontroller applications with approved features of the analog Prüfball robust, precise and maintenance-free

- One-piece safety casing made of solid rubber, extremely voltage proof, unbreakable, dust- and waterproof
- Direct reading of all functions without pressed buttons
- Phase, phase sequence and continuity test,
- Additional load (RCD-tripping)
- Reliable phase sequence test by microcontroller analysis, possible with gloves
- Maintenance-free
- CAT IV 1000 V











Туре	Item Code	Phase-/ phase sequence test	Continuity test	Additional load 30 mA-RCD- tripping	LCD value
SPB 500L	DSSB-RSE-VT-81422	Yes	Yes	Yes	Yes
50-500 V					
SPB 1000L	DSSB-RSE-VT-81423	Yes	Yes	Yes	Yes
50-1000 V					



Prüfball SPB Analog





500 V or 1000 V measurement range available



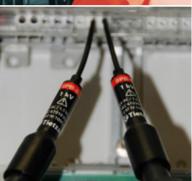
Direct voltage indication without push buttons! - CAT IV 1000V Buttons only for additional load

The Prüfball SPB is the right voltage tester for operation in energy supply robust, precise, maintenance-free.

- One-piece safety casing made of solid rubber, extremely voltage-proof, unbreakable dust- and waterproof
- Easy operation, clear indication
- Phase, phase sequence and continuity tester, RCD-tripping
- Reliable phase sequence test by microcontroller analysis, possible with gloves
- Without battery, maintenance-free lifelong
- CAT IV 1000 V









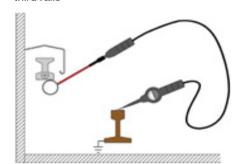
Туре	Item Code	Phase-/ phase sequence test	Continuity test	Additional load 30 mA-RCD- tripping	Vibration inducation for load	Acoustic indication for load
SPB 500B 50-500 V	DSSB-RSE-VT-81411	Yes	Yes			
SPB 1000B 50-1000 V	DSSB-RSE-VT-81414	Yes	Yes			
SPB 500PR 50-500 V	DSSB-RSE-VT-81401	Yes	Yes	Yes	Yes	
SPB 1000PR 50-1000 V	DSSB-RSE-VT-81404	Yes	Yes	Yes	Yes	
SPB 500PRA 50-500 V	DSSB-RSE-VT-81402	Yes	Yes	Yes		Yes



Prüfball SPB-UB for subways



- One-piece safety casing made of solid rubber, extremely impact resistant, dust- and waterproof
- Highest safety against surge voltage CAT IV, 1000 V
- Direct voltage indication by red LED and backlighted LCD
- Integrated self-test by green LED and LCD
- Extension and magnet for easy testing at third rails





Туре	Item Code	Self-test with green LED	voltage warning	,		_	Magnet for rail
SPB 1000L-UB	DSSB-RSE-VT-81391	Yes	Yes	Yes	Yes		
50-1000V							
SET SPB-UB	DSSB-RSE-VT-81390	Yes	Yes	Yes	Yes	Yes	Yes
50-1000V							



Multisafe DSP 4



Voltage tester:

- precise display of the voltage 1 V up to 1200 V AC / 0,01 up to 1500 V DC
- resistant to voltage CAT IV 600 V VDE certified
- · clear LED indicator for dangerous voltage
- hold the measured value with the HOLD key
- large illuminated display

Continuity tester:

- · continuity test with sound
- resistance measurement in the range of 0,1 kOhm to 2000 kOhm
- · green LED for continuity

Phase and phase sequence tester:

- phase tester with display "POL"
- phase sequence tester with LED display left / right
- phase and phase sequence tests can also be performed with insulating gloves
- additional phase sequence testing without ground reference for IT power grids

More functions:

- · ST-version slim test electrodes for tight terminal blocks
- easy operation
- insulation fault detection by two-color cable insulation
- IP 65 waterproof

Туре	Item Code	Nominal Voltage	Frequency	Phase sequence test for IT power grids without ground reference	Adjustable electrode length 4 or 15 mm
DSP 4	DSSB-RSE-VT-84402	24 - 1000 V AC		No	No
DSP 4F	DSSB-RSE-VT-84403	DC/	DC/	Yes	No
DSP 4ST	DSSB-RSE-VT-84405	24 - 1500 V DC	15 - 10 000 Hz	No	Yes
DSP 4FST	DSSB-RSE-VT-84406	24 - 1300 V DC		Yes	Yes







DELTA SAMA JAYA SDN. BHD. (DSSB) 199901025376 (500276-W)

No. 23G & 23M, DSSB Building, Jalan Perdana 6/8, Pandan Perdana, 55300 Kuala Lumpur, Malaysia

Tel: +603-92824007, +603-92813778 Fax: +603-92870705

 $\label{lem:email: HQ: samajaya@substation.com.my, (Sales): sales@substation.com.my} Email: (HQ): samajaya@substation.com.my, (Sales): sales@substation.com.my$

Website: www.substation.com.my



NOTES:



DELTA SAMA JAYA SDN. BHD. (DSSB) 199901025376 (500276-W)

No. 23G & 23M, DSSB Building, Jalan Perdana 6/8, Pandan Perdana, 55300 Kuala Lumpur, Malaysia

Tel: +603-92824007, +603-92813778 Fax: +603-92870705

 $\label{lem:email: HQ: samajaya@substation.com.my, (Sales): sales@substation.com.my} Email: (HQ): samajaya@substation.com.my, (Sales): sales@substation.com.my$

Website: www.substation.com.my



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DELTA SAMA JAYA SDN. BHD. (DSSB) 199901025376 (500276-W)

No. 23G & 23M, DSSB Building, Jalan Perdana 6/8, Pandan Perdana, 55300 Kuala Lumpur, Malaysia

Tel: +603-92824007, +603-92813778 Fax: +603-92870705

 $\label{lem:email: HQ: samajaya@substation.com.my, (Sales): sales@substation.com.my} Email: (HQ): samajaya@substation.com.my, (Sales): sales@substation.com.my$

Website: www.substation.com.my



NOTES:

Delta Sama Jaya Sdn.Bhd.



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