Protective spark gap

PRODUCT

Protective spark gap: Protect equipment from reverse current damage and reduce earthing resistance in equipotential bonding systems. The device is high resistance value in general condition，it allows instantaneous direct to reach equipotential when earthing difference between systems or equipments.

it is produced in accordance with DIN VDE 0185, Life cycle will be million of times in normal operation.
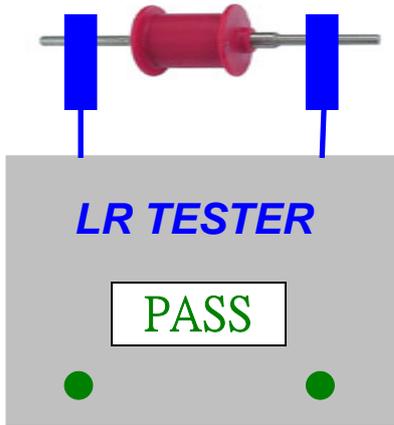
OPERATION

This device allows connection between two different earthing systems or earthing loop between different equipments. When a lightning discharges occurs, it helps both systems and equipments to reach equipotential connection.

With the high technology, it is possible to compensate the electrical potential differences between two earth installations. This system also avoids the reverse current damage risks that can come from two different earthing unions

TECHNICAL CHARACTERISTICS

Model	Protective spark gap
Code	**77920550**
Maximum service voltage *Uc*	500V (40-400 Hz)
Protection level *Up(1.2/50)*	< 135v
Lightning impulse *Iimp (10/350)*	200KA
Charge *Q*	50As
Specific energy	2500KJ/Ω
Follow current *If*	100Aeff
Response time *tA*	< 100ns
Insulation resistance	>$10^9\Omega$
Degree of protection	IP 20
Connector	8mm
Operation temperature	-40℃ ~ +92℃
Dimensions (mm)	35 mm large 146mm
Weight	120 gr. Approx

Function verification

Protective spark gap can be verified it's function by means of LR TESTER.

Test method：

Connect the cable clamp to both poles of Protective spark gap (no polarity difference)
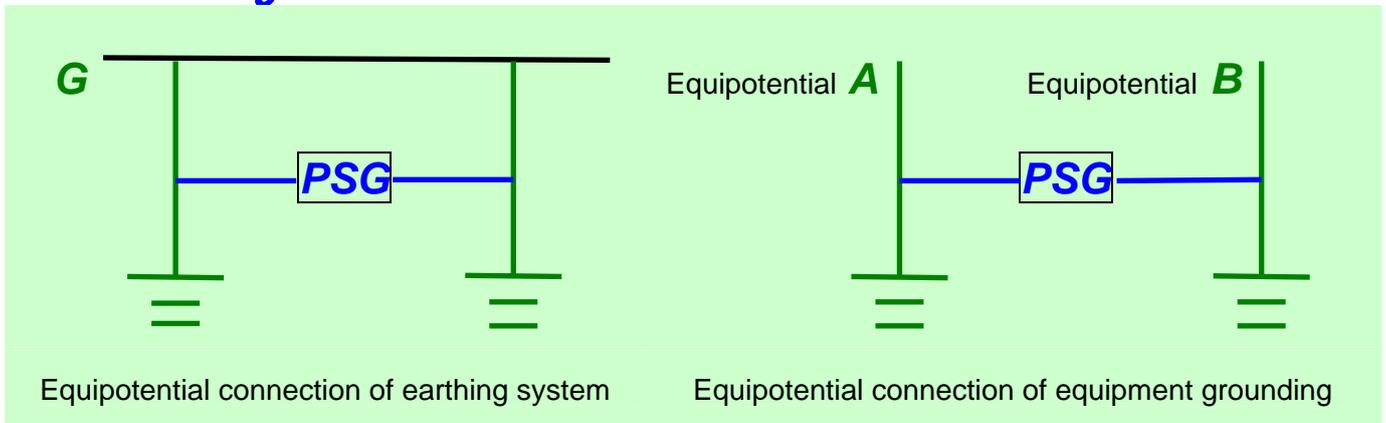
Push both green buttons of LR TESTER simultaneously. Read the display indication：
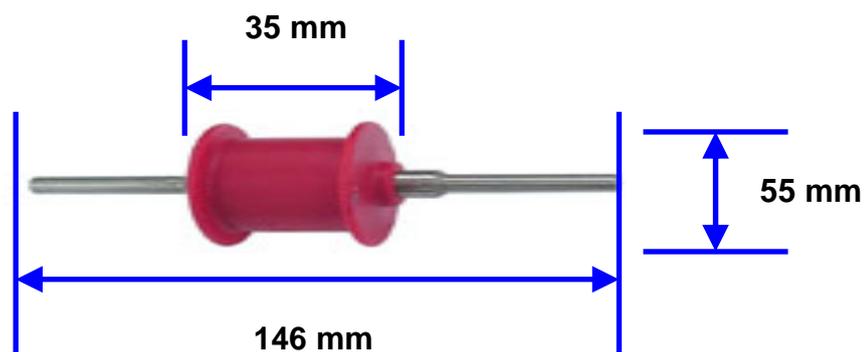
PASS ：Protective spark gap status :normal

Err ：Protective spark gap status: default.

When display is at Err status, please check again. If the message still appears **Err**. Then this device is breakdown.

Network Configuration

Equipotential connection of earthing system   Equipotential connection of equipment grounding

Dimensions (mm)

35 mm

55 mm

146 mm

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