

# EA-LDK2 and EA-LDK4 Lightning diverter kits for dual zone energizer



**NEMTEK**  
ELECTRIC FENCING PRODUCTS

The Lightning diverter kit [EA-LDK2](#) can be installed with any Nemtek™ dual zone energizer and offers protection against high voltage surges damaging the energizer from the fence.

The Lightning diverter kit [EA-LDK 4](#) can be installed with any Nemtek™ dual zone energizer and offers protection against high voltage surges damaging the energizer from the fence and includes power surge protection from the 220VAC mains supply.

## Fence installation for the EA-LDK2 and the EA-LDK4

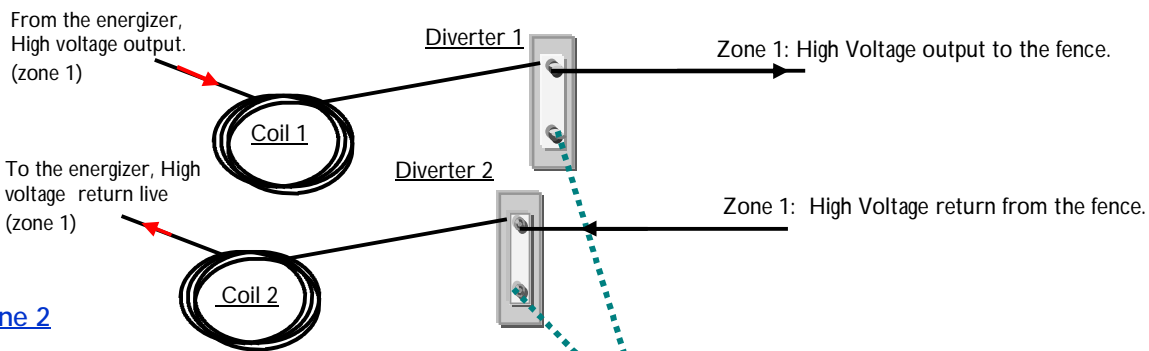
The lightning diverter kit increases the protection of an electric fence against power surges and lightning. It is important to install the selected kit as per the diagram below to maximize the effectiveness.

The kit is supplied with two earth spikes, but a multiple of earth spikes will increase the fence earth, offering additional protection for the electric fence energizer by allowing the power surge to dissipate into the ground easier.

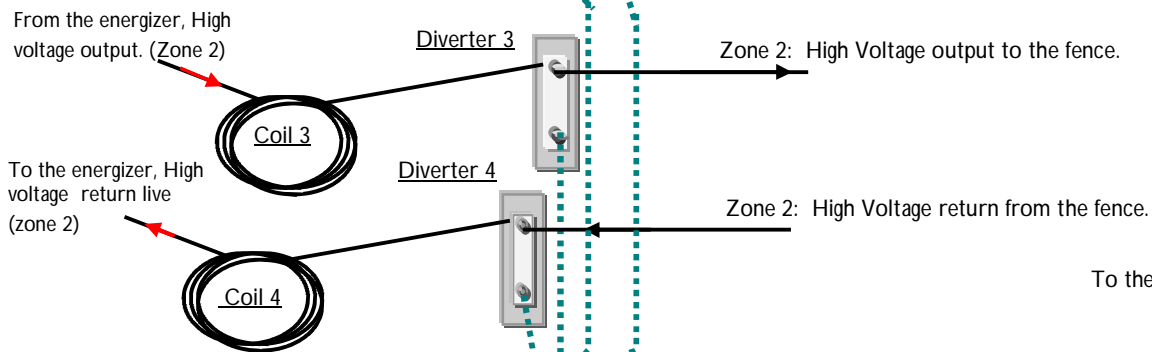
The coil or choke must be installed closer to the energizer and the lightning diverters between the coils and the electric fence.

The earth wire output from the energizer must first go to the earth spike/s before it is connected to the fence earth.

### Zone 1



### Zone 2



Earth output from the energizer

#### Earth return wire

The earth return wire from the fence, for units that have been set up to monitor the fence earth system, will be connected directly into the energizer.

An additional Coil/choke would assist in redirecting a power surge to the earth spikes on the fence earth system and away from the energizer. Use normal High Tension cable to make a coil/choke.

Earth spike

The distance between the Nemtek™ standard earth spikes must be greater than 1,2 meters for maximum earth effect.

This would apply to a third or even more earth spikes. It is recommended that at least three earth spikes are used.

Earth spike



The dual zone energizer lightning diverter kits [EA-LDK2](#) and [EA-LDK4](#) consist of

- 2 x earth spikes
- 4 x lightning diverters
- 8 x line clamps 8mm hot dip galvanized
- 4 x coils/chokes
- 1 x installation manual
- 1 x Zap3, 220 VAC live, neutral and mains earth protection unit. (Only available with the [EA-LKD4](#) kit)

Four different lightning diverter kits are available from Nemtek™

Product code	Product description	Number of fence zones protected	Mains protection 220 VAC
EA-LDK1	Lightning diverter kit, single fence zone	1 fence zone	No
EA-LDK2	Lightning diverter kit, dual fence zone	2 fence zones	No
EA-LDK3	Lightning diverter kit, single fence zone, and mains protection	1 fence zone	Yes, between live, neutral and mains earth
EA-LDK4	Lightning diverter kit, dual fence zone, and mains protection	2 fence zones	Yes, between live, neutral and mains earth

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