

# Surge protection concept for LED street lights



**DEHN arresters avoid unnecessary maintenance and ensure longevity and availability of LED technology.**



Communities and municipal utilities often replace conventional street lights by LEDs. However, LED lights are more susceptible to surge damage caused by switching overvoltages or direct and indirect lightning effects. These surges exceed the dielectric strength of the LED light many times over. Consequently, the LED light is damaged and must be replaced, which is a pretty time-consuming process. This can be prevented by installing surge arresters in the fuse boxes and cable distribution cabinets.

**If DEHN arresters are integrated in LED street lights, the investment in LED technology is protected in the long term.**

## Reasons for surge protective devices from DEHN:

- LED lights are sensitive electric loads which are more susceptible to surges than conventional luminaires.
- A surge protection concept with DEHN arresters avoids maintenance as a result of surge damage.
- DEHN arresters ensure longevity and availability of LED technology.
- DEHN arresters are top-quality products from Germany which reliably provide surge protection.
- DEHN is a reliable partner. Our experienced field staff and technical support will be happy to help you. Call us on the phone at **+49 9181 906-1750**.



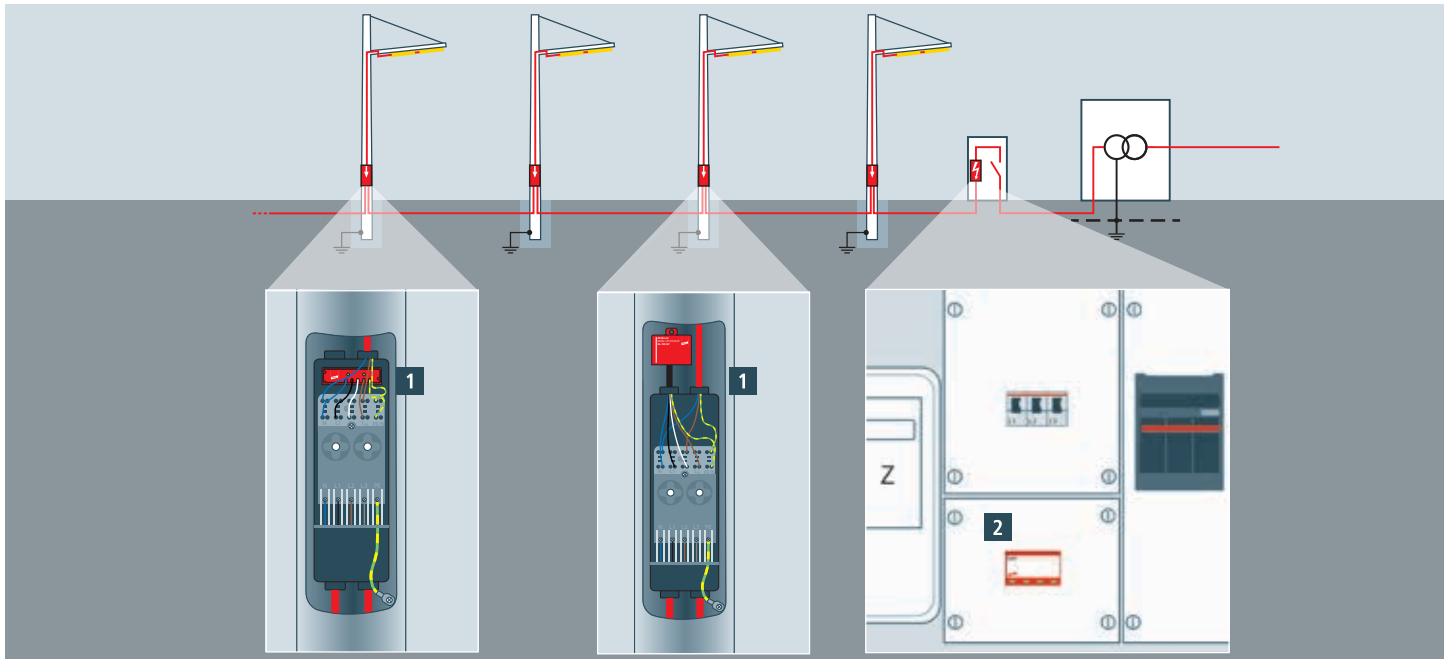
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## Protection concept for LED street lights



The surge arresters are installed in the fuse box at the mast base and in the cable distribution cabinets of the feeder.

### 1 DEHNcord DCOR L ... 275 SO LTG

- Multipole type 2 surge arrester with thermal monitoring device and disconnector
- Dual visual fault indicator for the discharge path of the supply voltage and the control phase
- The LED can be disconnected in case of a faulty surge protective device



Type	Part No.
DCOR L 3P 275 SO LTG (protection of the control phase)	900 445
DCOR L 2P 275 SO LTG	900 446

### Alternative: DEHNcord DCOR L ... 275 SO IP

- Multipole type 2 surge arrester with thermal monitoring device and disconnector
- Universal retrofit version with IP65 degree of protection
- PVC-sheathed cables can be entered into any fuse box
- Dual visual fault indicator for the discharge path of the supply voltage and the control phase
- The LED can be disconnected in case of a faulty surge protective device



Type	Part No.
DCOR L 3P 275 SO IP (protection of the control phase)	900 447
DCOR L 2P 275 SO IP	900 448

### 2 DEHNshield®

Prewired and application-optimised type 1 + type 2 spark-gap-based combined arrester

Type	Part No.
DSH TT 255 (FM)	941 310 (941 315)
DSH TNS 255 (FM)	941 400 (941 405)
DSH TNC 255 (FM)	941 300 (941 305)



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