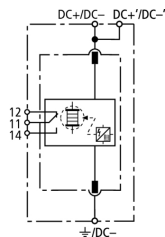


## DSE M 1 242 FM (971 127)

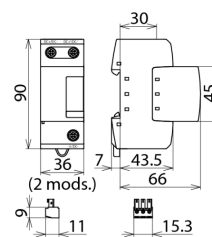
- Coordinated spark-gap-based lightning current arrester consisting of a base part and a plug-in protection module
- Spark gap technology particularly suited for use in d.c. circuits
- Directly coordinated with DEHNguard SE DC 242 (FM) surge protective devices



Figure without obligation



Basic circuit diagram DSE M 1 242 FM



Dimension drawing DSE M 1 242 FM

Coordinated and modular single-pole lightning current arrester for d.c. applications; with remote signalling contact for monitoring device (floating changeover contact).

| Type  | DSE M 1 242 FM  |
|---|---|
| Part No.  | 971 127   |
| SPD classification according to EN 61643-11 / IEC 61643-11  | type 1 / class I  |
| Max. continuous operating voltage (d.c.) ( $U_c$ )  | 242 V   |
| Lightning impulse current (10/350 $\mu$ s) ( $I_{imp}$ )  | 25 kA   |
| Specific energy (W/R)   | 156.25 kJ/ohms  |
| Voltage protection level ( $U_p$ )  | $\leq 2.5$ kV   |
| Response time ( $t_A$ )   | $\leq 100$ ns   |
| Short-circuit withstand capability for max. mains-side overcurrent protection d.c. ( $I_{SCCR}$ ) | 25 kA   |
| Max. mains-side overcurrent protection  | 250 A gL  |
| Max. backup fuse (DC+/DC- $\rightarrow$ DC+/DC-)  | 125 A gL  |
| Operating temperature range (parallel connection) ( $T_{UP}$ )                                    | -40 °C ... +80 °C   |
| Operating temperature range (series connection) ( $T_{US}$ )                                      | -40 °C ... +60 °C   |
| Operating state / fault indication  | green / red   |
| Number of ports   | 1   |
| Cross-sectional area (DC+/DC-, DC+/DC-, $\perp$ /DC-) (min.)                                      | 10 mm <sup>2</sup> solid / flexible                       |
| Cross-sectional area (DC+/DC-, $\perp$ /DC-) (max.)   | 50 mm <sup>2</sup> stranded / 35 mm <sup>2</sup> flexible |
| Cross-sectional area (DC+/DC-) (max.)   | 35 mm <sup>2</sup> stranded / 25 mm <sup>2</sup> flexible |
| For mounting on   | 35 mm DIN rails acc. to EN 60715                          |
| Enclosure material  | thermoplastic, red, UL 94 V-0                             |
| Place of installation   | indoor installation                                       |
| Degree of protection  | IP 20   |
| Capacity  | 2 module(s), DIN 43880                                    |
| Type of remote signalling contact   | changeover contact  |
| Switching capacity (a.c.)   | 250 V / 0.5 A   |
| Switching capacity (d.c.)   | 250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A                |
| Cross-sectional area for remote signalling terminals  | max. 1.5 mm <sup>2</sup> solid / flexible                 |
| Extended technical data:  | when used in safety lighting systems                      |
| - d.c. and a.c. operation   | yes   |
| - Max. continuous operating voltage (a.c.) ( $U_c$ )  | 255 V   |
| Weight  | 254 g   |
| Customs tariff number   | 85363090  |
| GTIN  | 4013364144484   |
| PU  | 1 Stk   |

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.