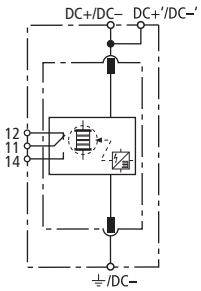
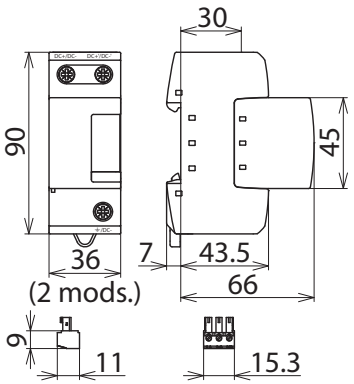
DSE M 1 242 FM (971 127)

- 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 DC circuits
- Coordinated with DEHNguard SE DC 500 (FM) surge protective devices





Basic circuit diagram



Dimension drawing

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 as per EN 61643-11 / ... IEC 61643-11	type 1 / class I
Max. continuous operating voltage DC (U_C)	242 V
Lightning impulse current (10/350 µs) (I_{imp})	25 kA
Specific energy (W/R)	156.25 kJ/ohms
Voltage protection level (U_p)	≤ 2.5 kV
Coordinated with DEHNguard (cable length ≥ 1 m)	DG SE DC 500 FM (Part No. 972 135)
Response time (t_A)	≤ 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 gG
Max. backup fuse (DC+/DC- -> DC+'/DC-')	125 A gG
Operating temperature range (parallel connection) (T_{UP})	-40 °C ... +80 °C
Operating temperature range (through-wiring) (T_{US})	-40 °C ... +60 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (DC+/DC-, DC+'/DC-', /DC-) (min.)	10 mm² solid / flexible
Cross-sectional area (DC+/DC-, /DC-) (max.)	50 mm² stranded / 35 mm² flexible
Cross-sectional area (DC+'/DC-') (max.)	35 mm² stranded / 25 mm² 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 Standard DIN module, 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 mm² solid / flexible
Extended technical data	
DC and AC operation possible	yes
Max. continuous voltage (a.c.) (U_C)	255 V

Masterdata	
Net weight	253.5 g/pc(s)
GTIN	4013364144484
PU	1 pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363090

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: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.