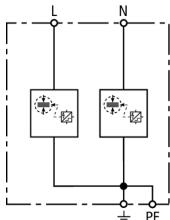


DSH TN 255 (941 200)

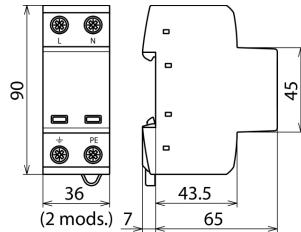
- Application-optimised and prewired spark-gap-based type 1 and type 2 combined lightning current and surge arrester
- Space-saving arrester for compact and simply equipped electrical installations with reduced technical requirements
- Capable of protecting terminal equipment



Figure without obligation



Basic circuit diagram DSH TN 255



Dimension drawing DSH TN 255

Application-optimised and prewired combined lightning current and surge arrester for single-phase TN systems.

Type Part No.	DSH TN 255 941 200
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 / class I + class II
Energy coordination with terminal equipment (≤ 5 m)	type 1 + type 2 + type 3
Nominal a.c. voltage (U_N)	230 V (50 / 60 Hz)
Max. continuous operating a.c. voltage (U_c)	255 V (50 / 60 Hz)
Lightning impulse current (10/350 μ s) [L+N+PE] (I_{total})	25 kA
Specific energy [L+N+PE] (W/R)	156.25 kJ/ohms
Lightning impulse current (10/350 μ s) [L, N+PE] (I_{imp})	12.5 kA
Specific energy [L,N+PE] (W/R)	39.06 kJ/ohms
Nominal discharge current (8/20 μ s) [L/N+PE]/[L+N+PE] (I_n)	12.5 / 25 kA
Voltage protection level [L+PE]/[N+PE] (U_P)	$\leq 1.5 / \leq 1.5$ kV
Follow current extinguishing capability a.c. (I_e)	25 kA _{rms}
Follow current limitation / Selectivity	no tripping of a 32 A gL/gG fuse up to 25 kA _{rms} (prosp.)
Response time (t_R)	≤ 100 ns
Max. mains-side overcurrent protection	160 A gL/gG
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 V / 120 min. – withstand
Operating temperature range (T_u)	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (L, N, PE, $\frac{1}{2}$) (min.)	1.5 mm ² solid / flexible
Cross-sectional area (L, N, PE, $\frac{1}{2}$) (max.)	35 mm ² stranded / 25 mm ² 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
Approvals	KEMA, VDE, UL
Weight	250 g
Customs tariff number	85363030
GTIN	4013364138209
PU	1 pc(s)

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.

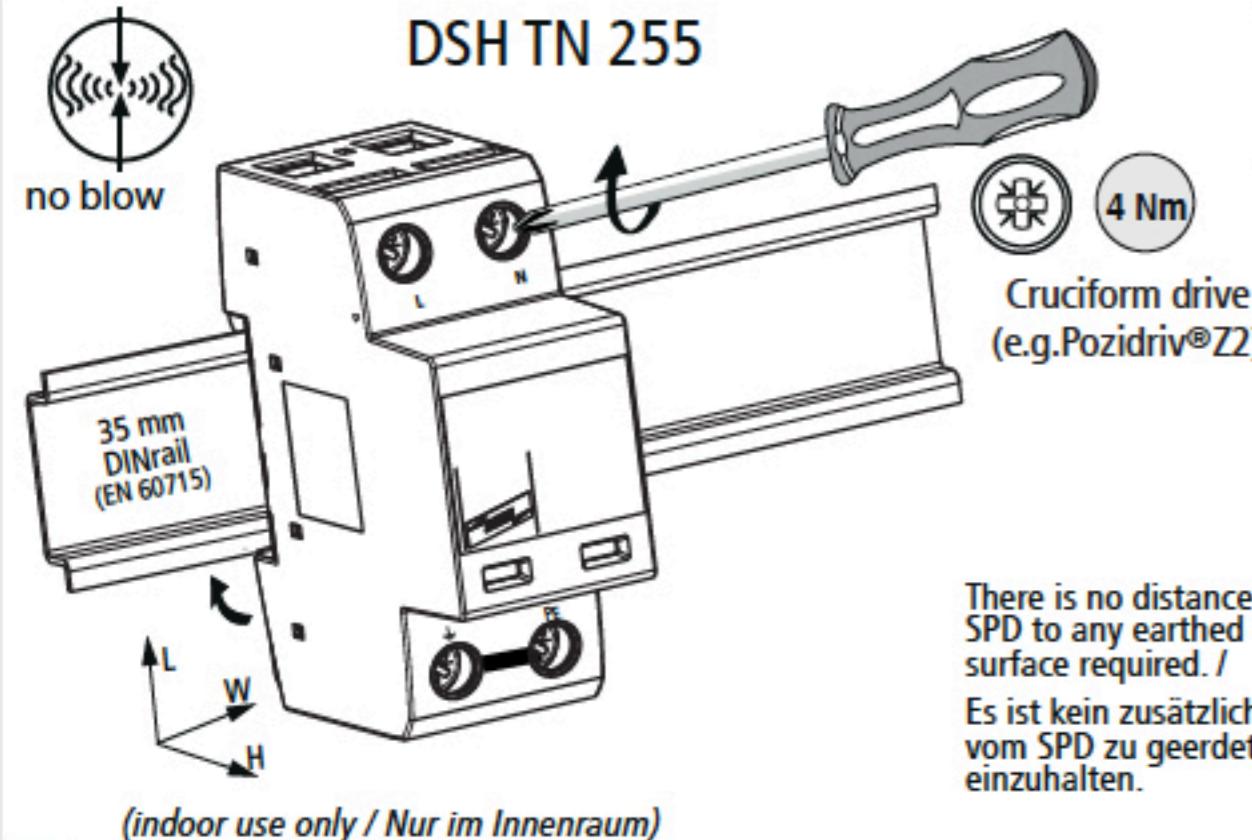


INSTALLATION INSTRUCTIONS



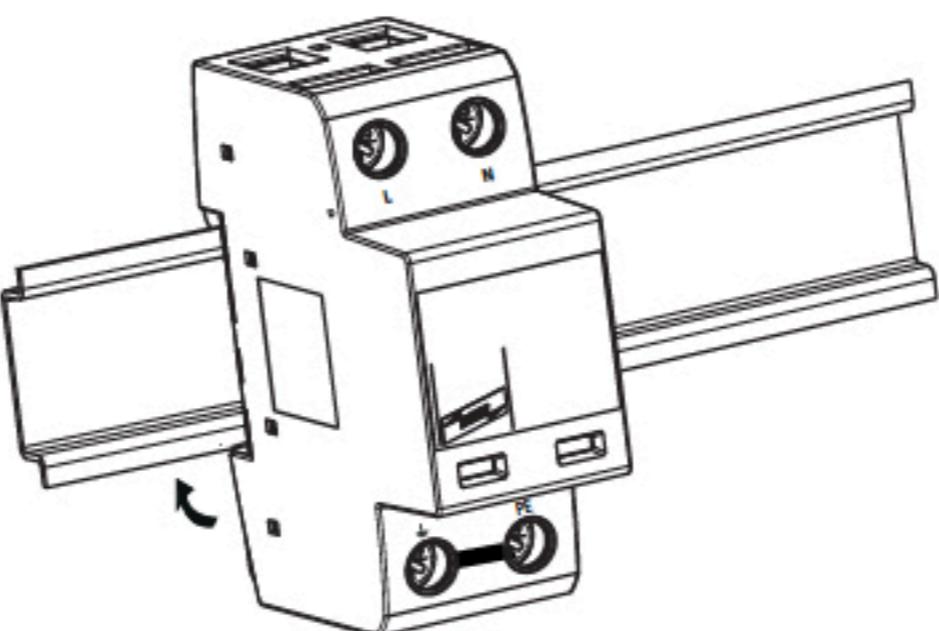
Publication No. 1769 / UPDATE 08.13 Id. No. 068712

DEHNshield®

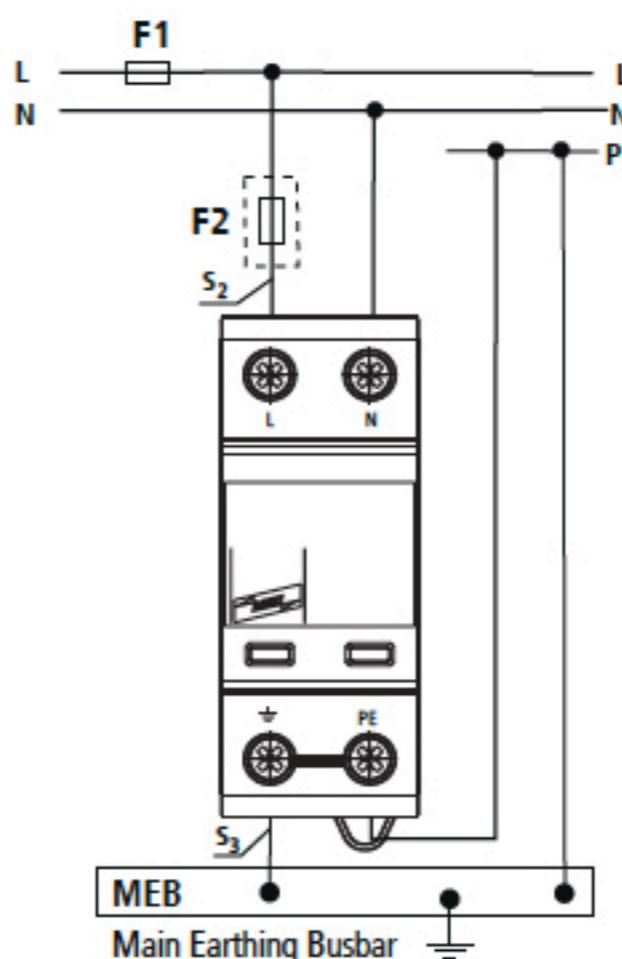
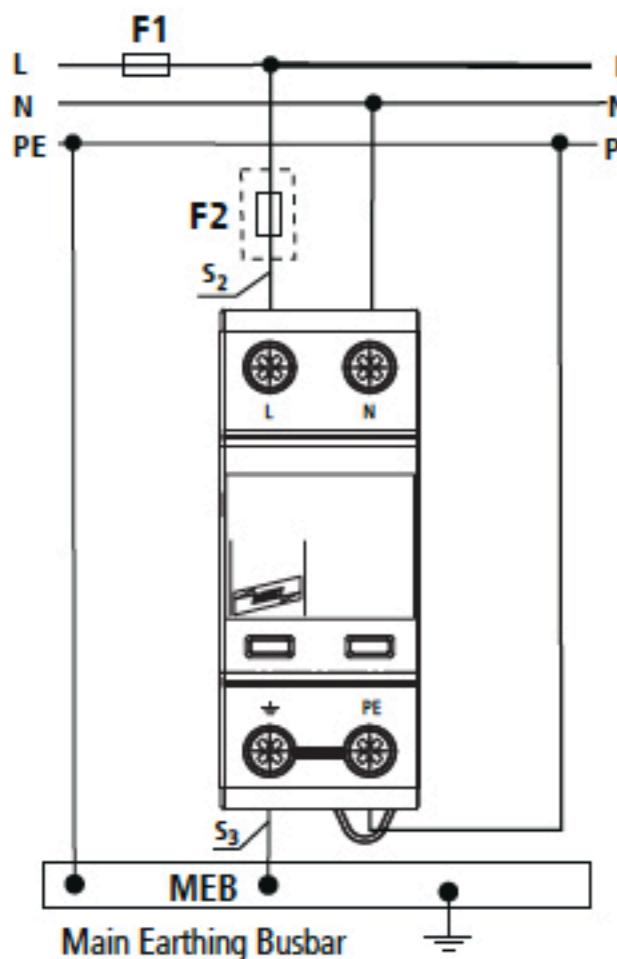


There is no distance from the SPD to any earthed conductive surface required.
Es ist kein zusätzlicher Abstand vom SPD zu geerdeten Flächen einzuhalten.

DSH TT 2P 255



TT (1+1)

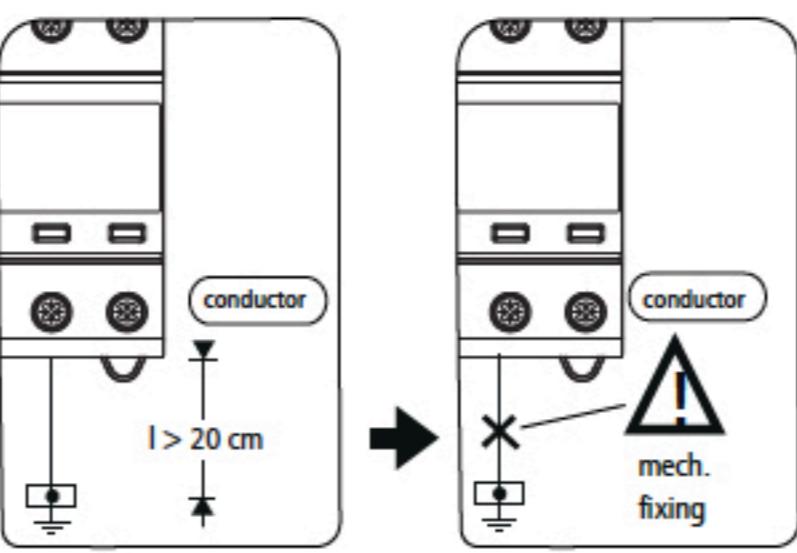


Backup fuse / Vorsicherung

DEHNshield® DSH TT 2P 255, DSH TN 255	
F1	F1 > 160 A gL / gG F2 ≤ 160 A gL / gG
F2	F1 ≤ 160 A gL / gG F2 > 160 A gL / gG

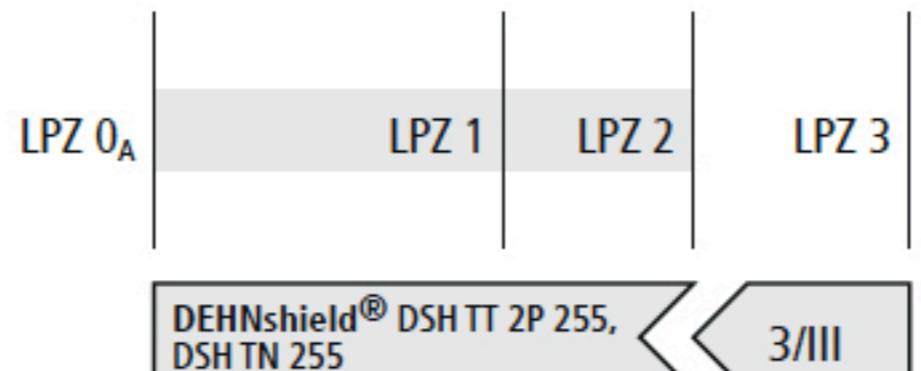
Fuse F1 A gL / gG	S ₂ / mm ²	S ₃ / mm ²	Fuse F2 A gL / gG
25	10	16	—
35	10	16	—
40	10	16	—
50	10	16	—
63	10	16	—
80	10	16	—
100	16	16	—
125	16	16	—
160	25	25	—
>160	25	25	160

Mechanical fixing / Mechanische Befestigung



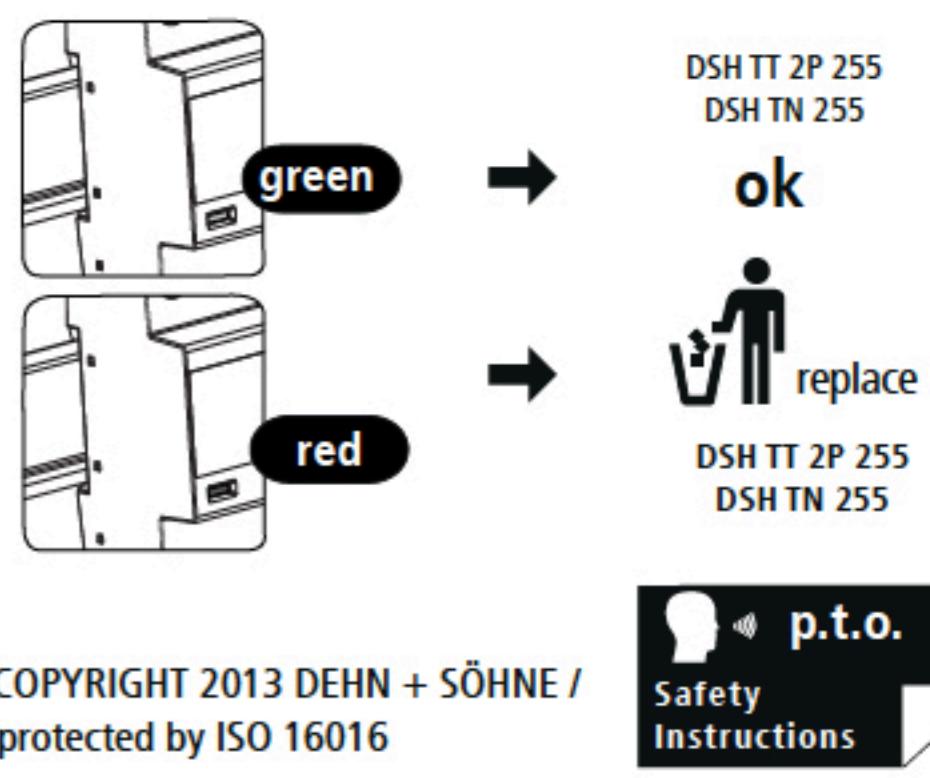
Coordination / Koordination

DIN VDE 0185-305-4
IEC 62305-4: ...



SPD Type 3
acc. to EN 61643-11: ...

Fig. 3 Fault indication / Defektanzeige



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