

String combiner box (SCB) - SOL-SC-1ST-0-DC-2MPPT-1000SE - 1101176

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String combiner box for photovoltaic systems up to 1000 V DC for the connection of 2x 1 string. With surge protection and Push-in connection for the input and output side.

Product Description


The Solarline string combiner boxes (SCBs) are used in both small rooftop systems and large ground-mounted systems. Their functions include collecting and protecting strings and, if necessary, separating the panels from the rest of the system by means of a fire service or switch disconnectors.

Your advantages

- ✓ Fast installation and startup
- ✓ Large portfolio of string combiner boxes in stock
- ✓ Application-oriented consultation
- ✓ Standard-compliant switchgear and controlgear assembly, thanks to use of DIN EN 61439



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	25 pc
GTIN	 4 055626 957821
GTIN	4055626957821

Technical data

System parameter

System voltage	1000 V DC (U_{max})
Number of string inputs	1 (per MPP tracker)
Current per string (max.)	40 A (I_{max})
Number of outputs	1 (per MPP tracker)
Number of supported MPP trackers	2

Safety equipment

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Technical data

Safety equipment

Surge protective device	T1 / T2
Protection level U_p	≤ 3.5 kV
Total discharge current I_{total} (8/20) μ s	40 kA
Total discharge current I_{total} (10/350) μ s	5 kA

Cable entry

Type of cable entry	Cable gland
Cable cross section string input	2.5 mm ² ... 6 mm ²
Sealing area string input	3 mm ... 6.5 mm
Cable cross section output	2.5 mm ² ... 6 mm ²
Sealing area output	3 mm ... 6.5 mm
Cable cross section grounding	16 mm ² (2 x)
Sealing area grounding	6 mm ... 12 mm (2 x)

General data

Material cover/door	Polycarbonate (transparent)
Degree of protection	IP65
Protection class	II

Dimensions

Outer dimensions: width, height, depth	254 mm x 180 mm x 111 mm (Housing dimensions)
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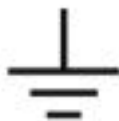
Ambient conditions

Ambient temperature (operation)	-20 °C ... 55 °C
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Drawings

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Schematic diagram



Connection of the protective grounding conductor

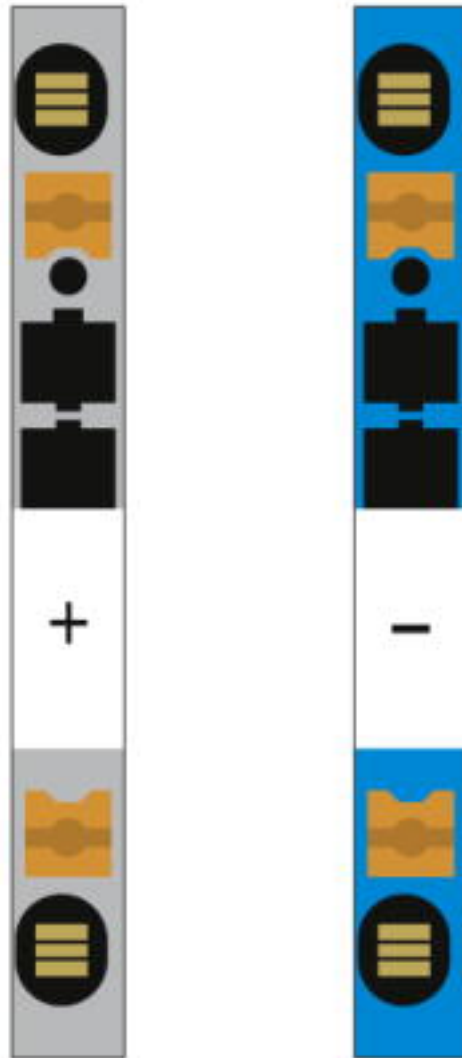
Schematic diagram



Connection of the protective equipotential bonding conductor

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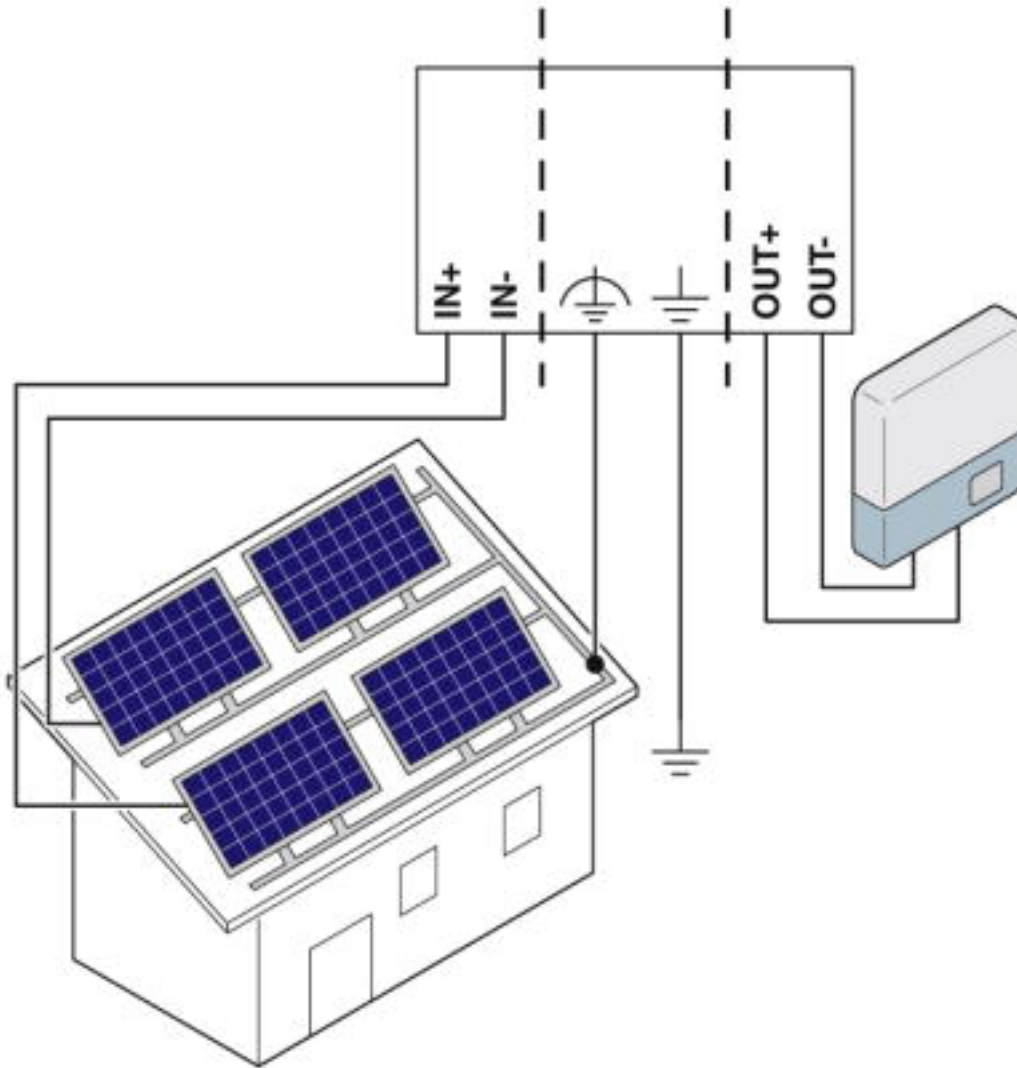
Schematic diagram



Connection of the PV strings, as well as connection to the inverter

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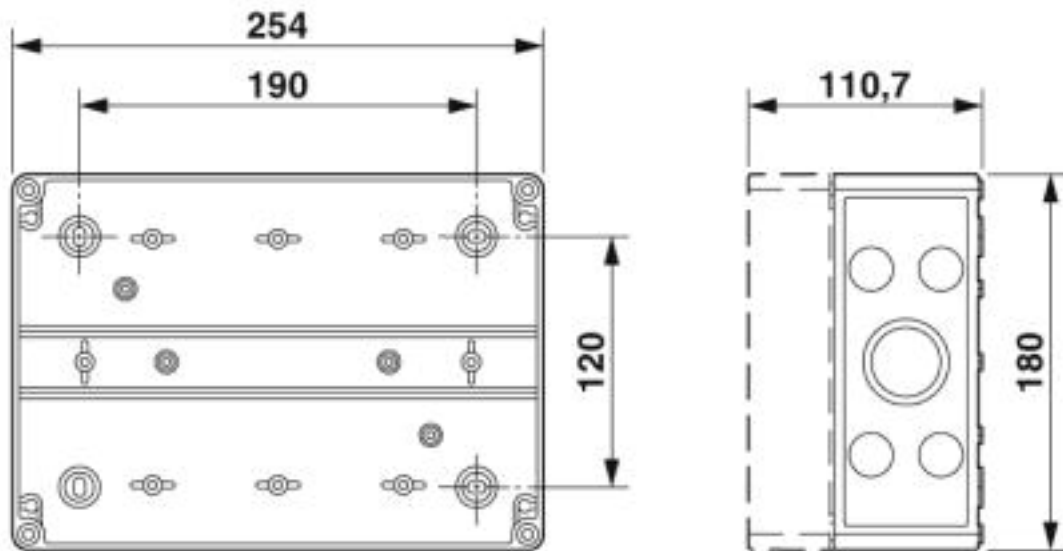
Connection diagram



Schematic application drawing

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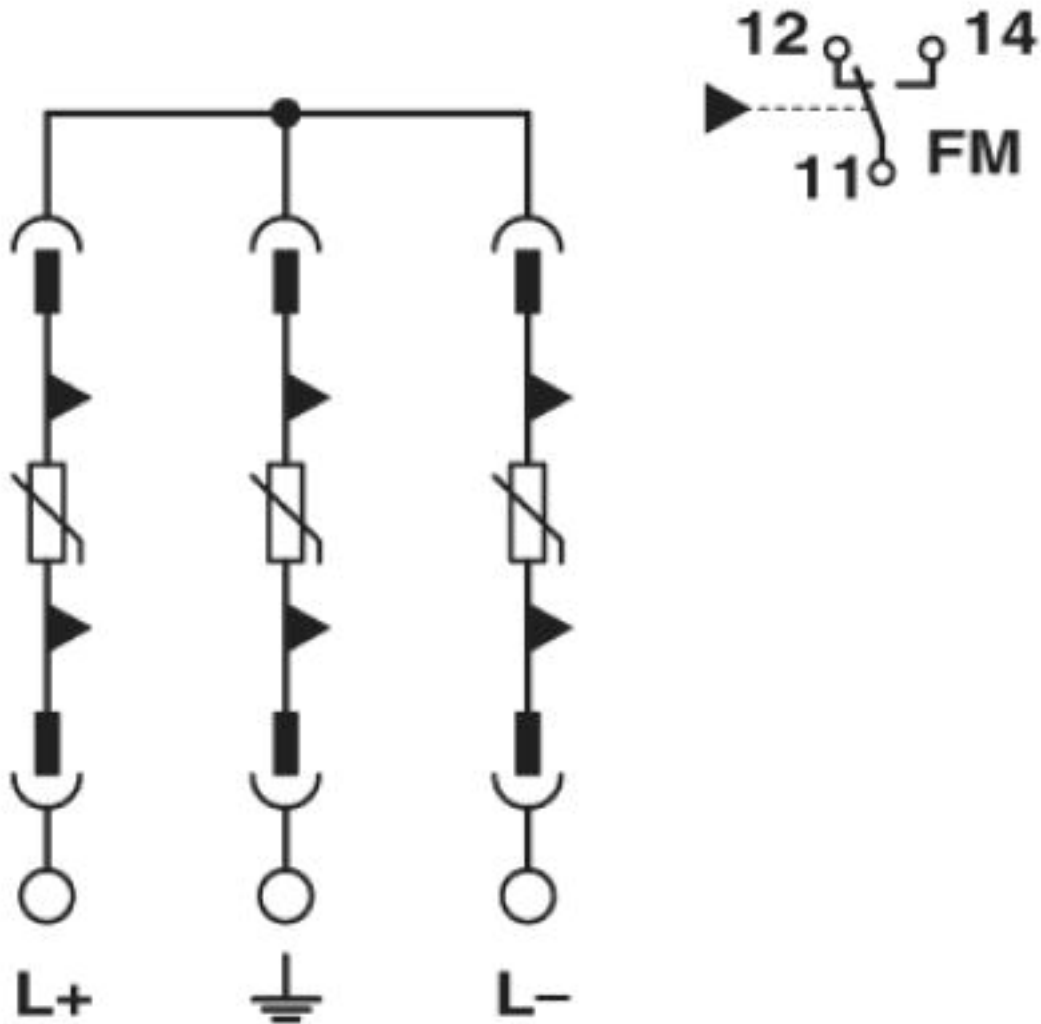
Dimensional drawing



Housing dimensions

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Circuit diagram



Connection of the remote indication contact on the surge protection

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