

# PV-DB S20-2,5/0,8-2D - Photovoltaic connector



1811239

<https://www.phoenixcontact.com/us/products/1811239>

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Photovoltaics diode box, nominal current: 5 A, nom. voltage: 1000 V, width: 38 mm, connection method: open cable end, color: black. Only with Huber & Suhner RADOX<sup>®</sup> Solar (TÜV) solar cable

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1811239             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Product key                          | ABLBEX              |
| Catalog page                         | Page 427 (C-2-2013) |
| GTIN                                 | 4046356712330       |
| Weight per piece (including packing) | 92.2 g              |
| Weight per piece (excluding packing) | 58.36 g             |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|                |                        |
|----------------|------------------------|
| Product type   | Photovoltaic connector |
| Product family | SUNCLIX                |

### Insulation characteristics

|                  |    |
|------------------|----|
| Protection class | II |
|------------------|----|

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Rated voltage (III/2)       | 1000 V |
| Rated surge voltage (III/3) | 8 kV   |
| Rated current               | 5 A    |

### Input data

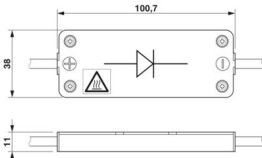
#### Diode

|                                    |                    |
|------------------------------------|--------------------|
| Nominal input voltage $U_N$        | 1000 V             |
| Max. operating voltage $U_{max}$   | 1000 V             |
| Peak reverse voltage per diode     | 2200 V             |
| Reverse current per diode          | 40 $\mu$ A         |
| Conducting state voltage per diode | 1.26 V             |
| Conducting state current per diode | 30 A               |
| Voltage dissipation                | 0.88 V (at 175 °C) |

### Connection data

|                   |                |
|-------------------|----------------|
| Connection method | open cable end |
|-------------------|----------------|

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 38 mm                                                                                |
| Height              | 11 mm                                                                                |
| Length              | 100 mm                                                                               |

### Material specifications

|                                        |           |
|----------------------------------------|-----------|
| Color                                  | black     |
| Flammability rating according to UL 94 | V0        |
| Insulating material                    | PA        |
| Contact surface                        | Silver Ag |
| Contact material                       | Cu alloy  |

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|                        |      |
|------------------------|------|
| Outer sheath, material | PE-X |
|------------------------|------|

## Cable/line

|                                                                             |                                         |
|-----------------------------------------------------------------------------|-----------------------------------------|
| Cable length                                                                | 0.8 m                                   |
| Cable type                                                                  | PV1-F cables                            |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | 48 litz wires x 0.25 mm                 |
| External cable diameter                                                     | 5.05 mm ... 5.35 mm                     |
| Outer sheath, material                                                      | PE-X                                    |
| External sheath, color                                                      | black                                   |
| Single wire, cross section                                                  | 2.5 mm <sup>2</sup> 2.5 mm <sup>2</sup> |
| Material, inner sheath                                                      | PE-X                                    |
| Thickness, insulation                                                       | 20.80 mm                                |
| Smallest bending radius, fixed installation                                 | 21 mm                                   |
| Smallest bending radius, movable installation                               | 21 mm                                   |
| Cable pull-out force                                                        | >= 80 N                                 |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP67             |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (assembly)  | -25 °C ... 55 °C |

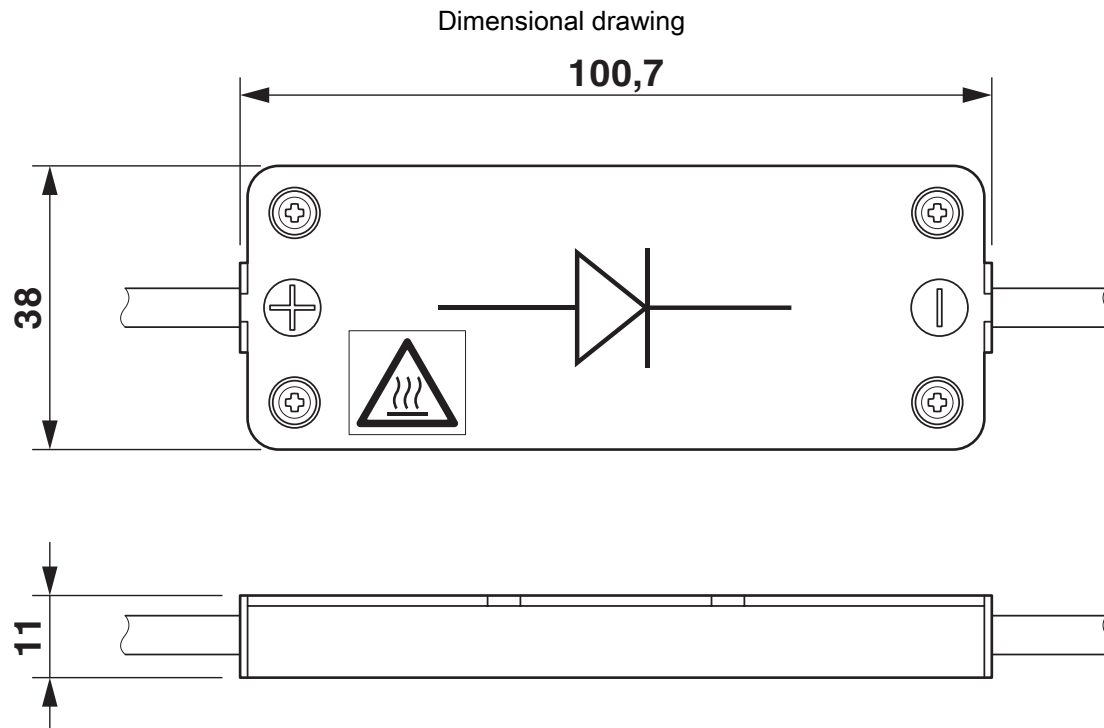
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## Drawings



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## Environmental product compliance

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| China RoHS                             |                                          |
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |
| EU REACH SVHC                          |                                          |
| REACH candidate substance (CAS No.)    | No substance above 0.1 wt%               |

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