

# Technical data sheet

Connectable data cable protection, 2-pole, indirect earthing, 12 V  
Item number: 5080311



Pluggable data line protection, type 1+2/D1+C2 for use in measurement and control technology

- Protection device for multi-wire systems
- Indirect shield earthing
- Frequency range up to 100 MHz
- Earthing via DIN rail or connection cable
- Small installation width of 12.5 mm
- High system availability - no signal interruption without protection module

Application: Universal lightning and surge protection for MCR data transmission devices.



| Master data                        |                                |  |
|------------------------------------|--------------------------------|--|
| Item number                        | 5080311                        |  |
| Type                               | PDP-2-12-I                     |  |
| Description 1                      | Pluggable data line protection |  |
| Description 2                      | 2 pole indirect earth          |  |
| Manufacturer                       | OBO                            |  |
| Dimension                          | 12V                            |  |
| Smallest sales unit                | 1                              |  |
| Unit of quantity                   | Piece                          |  |
| Weight                             | 6.6 kg                         |  |
| Weight unit                        | kg/100 pc.                     |  |
| CO2 Footprint (GWP) Cradle-to-Gate | 0,4264 kg CO2e / 1 Piece       |  |

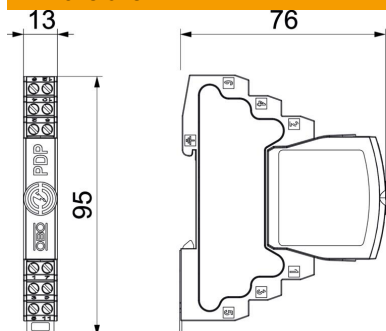
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## Dimensions



|        |       |
|--------|-------|
| Length | 76 mm |
| Width  | 13 mm |
| Height | 95 mm |

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|                                            |                             |
|--------------------------------------------|-----------------------------|
| Connection cross-section, flexible, max.   | 1.5 mm <sup>2</sup>         |
| Connection cross-section, flexible, min.   | 0.14 mm <sup>2</sup>        |
| Connection cross-section, multi-wire, max. | 2.5 mm <sup>2</sup>         |
| Connection cross-section, multi-wire, min. | 0.14 mm <sup>2</sup>        |
| Connection cross-section, rigid, max.      | 2.5 mm <sup>2</sup>         |
| Connection cross-section, rigid, min.      | 0.14 mm <sup>2</sup>        |
| Number of poles                            | 2                           |
| Version for                                | 2-pole                      |
| Insertion loss                             | ≤3 dB                       |
| Earthing via:                              | Connection cable / DIN rail |
| Total discharge current (10/350)           | 2,5 kA                      |
| Total discharge current (8/20)             | 20 kA                       |
| Cut-off frequency                          | 100 MHz                     |
| Maximum continuous voltage AC              | 12 V                        |
| Maximum continuous voltage DC              | 16 V                        |
| Lightning impulse current                  | 2.5 kA                      |
| Capacity (wire-wire)                       | ≤30 pF                      |
| Capacity (wire-earth)                      | ≤30 pF                      |
| Kategorie                                  | Type 1+2 / D1+C2            |
| Lightning protection zone LPZ              | 0→2                         |
| Lengthwise resistance                      | 1.2 ± 5%                    |
| Mounting of input / output                 | Screw terminals             |
| Mounting type                              | DIN rail 35 mm              |
| Nominal discharge current (8/20 μs)        | 10 kA                       |
| Nominal load current AC                    | 0.425 A                     |
| Nominal load current DC                    | 0.6 A                       |
| Total impulse durability into C2 (8/20)    | 20 kA                       |
| Testing standard                           | IEC 61643-21                |
| Shielding connection available             | yes                         |
| Screening                                  | Indirect                    |
| Protection rating                          | IP20                        |

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|                                       |                      |
|---------------------------------------|----------------------|
| Protection level wire-wire            | 130 V                |
| Protection level wire-earth           | 1600 V               |
| Protection level, shield-earth (S-PE) | 1300 V               |
| Series resistance per wire            | 1,2 $\Omega \pm 5\%$ |
| Signalling on device                  | None                 |
| SPD to EN 61643-11                    | Type 1+2             |
| SPD to IEC 61643-1                    | Class I+II           |
| SPD to IEC 61643-21                   | Class I+II / D1+C2   |
| Plug-in system                        | Terminal             |
| Impulse durability wire-wire          | 10 kV / 5 kA         |
| Impulse durability wire-earth         | 10 kV / 5 kA         |
| Permitted temperature range, max.     | 80 °C                |
| Permitted temperature range, min.     | -40 °C               |