

## SPD G2

### Surge protection device



#### Product family features

- High surge protection for all lighting applications
- Failure indication LED
- Mains voltage up to 275 V
- Voltage protection level for connected LED driver <2 kV
- Push-in terminal

#### Product family benefits

- Low maintenance effort
- Suitable for luminaires of protection class I/II
- Several protection level options for different applications
- Securing uptime of your outdoor lighting installation from overvoltage pulses
- Fully compliant with IEC 61643-11

#### Areas of application

- Street and urban lighting
- Industry lighting
- Outdoor applications

Product family datasheet

Technical data

| Product description | Electrical data         |                                                |                                        |                                      |
|---------------------|-------------------------|------------------------------------------------|----------------------------------------|--------------------------------------|
|                     | Over current protection | Max. voltage protection level (Up, L/N-Ground) | Nominal discharge current (L/N-Ground) | Surge protection voltage(L/N-Ground) |
| SPD 10 275 G2       | 15 A                    | 2 kV                                           | 5 kA                                   | 10 kV                                |
| SPD 15 275 G2       | 15 A                    | 2 kV                                           | 5 kA                                   | 10 kV                                |
| SPD 20 275 G2       | 15 A                    | 2 kV                                           | 7.5 kA                                 | 15 kV                                |

| Product description | Open-circuit voltage | End of life indication (by LED light) | Surge withstand capability                                                                              | Power losses (% of total system power) |
|---------------------|----------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------|
| SPD 10 275 G2       | 10 kV                | YES                                   | 10kA / 5kA / 3kA <sup>1)</sup>                                                                          | 0,1 %                                  |
| SPD 15 275 G2       | 15 kV                | YES                                   | 15kA(L-N) / 10kA(L-N,Ground) / 7.5kA(L-N) / 5kA(L-N,Ground) / 3kA(L-N) / 3kA(L-N,Ground) <sup>1)</sup>  | 0,1 %                                  |
| SPD 20 275 G2       | 20 kV                | YES                                   | 20kA(L-N) / 15kA(L-N,Ground) / 10kA(L-N) / 7.5kA(L-N,Ground) / 5kA(L-N) / 5kA(L-N,Ground) <sup>1)</sup> | 0,1 %                                  |

| Product description | Max. voltage protection level (Up, L-N) | Nominal discharge current (L-N) | Surge protection voltage(L-N) | Suitable for power grids |
|---------------------|-----------------------------------------|---------------------------------|-------------------------------|--------------------------|
| SPD 10 275 G2       | 1,5 kV                                  | 5 kA                            | 10 kV                         | TN                       |
| SPD 15 275 G2       | 1,5 kV                                  | 7.5 kA                          | 15 kV                         | TN                       |
| SPD 20 275 G2       | 1,5 kV                                  | 10 kA                           | 20 kV                         | TN                       |

| Product description | Dimensions & weight |                                  |                                     |                                      |                |
|---------------------|---------------------|----------------------------------|-------------------------------------|--------------------------------------|----------------|
|                     | Width               | Cable cross-section, output side | Wire preparation length, input side | Wire preparation length, output side | Product weight |
| SPD 10 275 G2       | 375 mm              | 3*1 mm <sup>2 2)</sup>           | 8...10 mm                           | 8...10 mm                            | 6600 g         |
| SPD 15 275 G2       | 375 mm              | 3*1 mm <sup>2 2)</sup>           | 8...10 mm                           | 8...10 mm                            | 6600 g         |
| SPD 20 275 G2       | 375 mm              | 3*1 mm <sup>2 2)</sup>           | 8...10 mm                           | 8...10 mm                            | 6600 g         |

| Product description | Height | Length | Cable cross-section, input side | Additional product data      | Logistical data |
|---------------------|--------|--------|---------------------------------|------------------------------|-----------------|
|                     |        |        |                                 | Predecessor EAN              | Commodity code  |
| SPD 10 275 G2       | 330 mm | 615 mm | 3*1 mm <sup>2 2)</sup>          | 4052899549807, 4052899549821 | 85044083900     |
| SPD 15 275 G2       | 330 mm | 615 mm | 3*1 mm <sup>2 2)</sup>          | 4052899549869                | 85044083900     |
| SPD 20 275 G2       | 330 mm | 615 mm | 3*1 mm <sup>2 2)</sup>          |                              | 85044083900     |

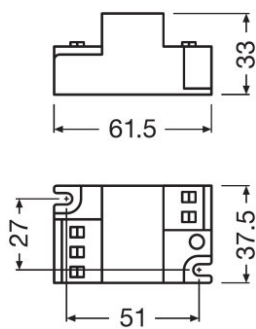
Product family datasheet

| Product description | Environmental information                                             |                            |                            |                        |
|---------------------|-----------------------------------------------------------------------|----------------------------|----------------------------|------------------------|
|                     | Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                            |                        |
| Product description | Date of Declaration                                                   | Primary Article Identifier | Candidate List Substance 1 | CAS No. of substance 1 |
| SPD 10 275 G2       | 23-12-2021                                                            | 4062172145381              | Lead                       | 7439-92-1              |
| SPD 15 275 G2       | 23-12-2021                                                            | 4062172145428              | Lead                       | 7439-92-1              |
| SPD 20 275 G2       | 23-12-2021                                                            | 4062172145466              | Lead                       | 7439-92-1              |

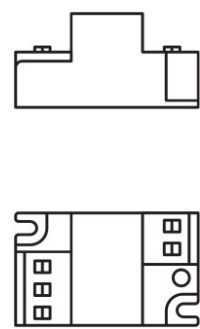
| Product description | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|---------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| SPD 10 275 G2       | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 515e8a9f-4185-477c-af3c-7e34ee2f1e4a |
| SPD 15 275 G2       | The identification of the Candidate List substance is sufficient to allow safe use of the article. | e4a1e9c1-7dee-473e-8750-278addf8a78f |
| SPD 20 275 G2       | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 858126b5-3f36-49e4-a783-fb2acb302ac6 |

1) 1strike  
2) Solid and stranded

Product family datasheet



Line drawing of SPD G2



Line drawing of SPD G2

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

Download Data

| File                                                                                |                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|  | User instruction<br>Surge Protection Device                       |
|  | Certificates<br>SPD P5 G2 CE 4212590 251023                       |
|  | Certificates<br>Surge Protective Device                           |
|  | Declarations of conformity<br>SPD 275 P5 G2 UK DoC 4291498 250221 |

Logistical Data

| Product code  | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|---------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172145381 | SPD 10 275 G2       | Shipping carton box<br>60    | 395 mm x 307 mm x 108 mm             | 13.10 dm <sup>3</sup> | 5318.00 g    |

Product family datasheet

Logistical Data

|               |               |                           |                          |                       |           |
|---------------|---------------|---------------------------|--------------------------|-----------------------|-----------|
| 4062172145428 | SPD 15 275 G2 | Shipping carton box<br>60 | 395 mm x 307 mm x 108 mm | 13.10 dm <sup>3</sup> | 5318.00 g |
| 4062172145466 | SPD 20 275 G2 | Shipping carton box<br>60 | 395 mm x 307 mm x 108 mm | 13.10 dm <sup>3</sup> | 5318.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.