

# LS-EMLP (45X15) SR - Device marker



0831721  
<https://www.phoenixcontact.com/us/products/0831721>

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Device marker, Sheet, silver, unmarked, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: adhesive, Number of individual labels: 30, text field height: 15 mm, text field width: 45 mm



## Your advantages

- Stick-on device marking
- Prefabricated device markers in the proven laser-sheet format for ideal positioning in the marking device
- High contrast due to the silver top layer with black marking

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0831721       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | BG19          |
| Product key                          | BG241D        |
| GTIN                                 | 4046356926621 |
| Weight per piece (including packing) | 37.43 g       |
| Weight per piece (excluding packing) | 37.21 g       |
| Customs tariff number                | 39203000      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|              |              |
|--------------|--------------|
| Product type | Gerätemarker |
|--------------|--------------|

### Marking

|                             |                      |
|-----------------------------|----------------------|
| Number of individual labels | 30                   |
| Identification technology   | Direct laser marking |

### Dimensions

|        |          |
|--------|----------|
| Width  | 45.00 mm |
| Height | 15.00 mm |
| Depth  | 0.85 mm  |

### Material specifications

|                       |                                |
|-----------------------|--------------------------------|
| Foil strength         | 800 µm                         |
| Adhesive strength     | 50 µm                          |
| Adhesive              | Acrylic                        |
| Color                 | silver-colored                 |
| Material              | ABS                            |
| Base element material | ABS                            |
| Components            | free from silicone and halogen |

### Environmental and real-life conditions

#### Test for substances that would hinder coating with paint or varnish

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

#### Test for substances that would hinder coating with paint or varnish

|               |                                       |
|---------------|---------------------------------------|
| Result        | Test passed                           |
| Specification | DIN EN ISO 1518-1:2019-10 (following) |
| Requirements  | ≥ 5 N                                 |
| Result        | Test passed                           |

#### Tesafilm test

|               |                                  |
|---------------|----------------------------------|
| Specification | DIN EN ISO 2409:2013 (following) |
| Result        | Test passed                      |

#### UV resistance

|               |                                       |
|---------------|---------------------------------------|
| Specification | DIN EN ISO 4892-2:2021-11 (following) |
| Result        | Test passed                           |
| Test duration | 96 h                                  |
| Procedure     | Artificial irradiation.               |

#### Temperature resistance

|               |                                 |
|---------------|---------------------------------|
| Specification | ANSI/UL 969-2018:03 (following) |
|---------------|---------------------------------|

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|               |       |
|---------------|-------|
| Test duration | 240 h |
|---------------|-------|

## Wipe resistance of inscriptions

|                                                   |                                                                                       |
|---------------------------------------------------|---------------------------------------------------------------------------------------|
| Specification                                     | DIN EN 61010-1 (VDE 0411-1):2011-07<br>DIN EN 62208 (VDE 0660-511):2012-06 (in parts) |
| Isopropyl<br>[CAS No. 67-63-0]                    | Test passed                                                                           |
| n-Hexane<br>[CAS No. 110-54-3]                    | Test passed                                                                           |
| Water + Petroleum ether<br>[CAS No. 64742-82-1]   | Test passed                                                                           |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed                                                                           |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed                                                                           |
| Specification                                     | ISO 175:2010 (following)                                                              |
| Test duration                                     | 168 h                                                                                 |
| Sodium hydroxide 0.1 mol/l<br>[CAS No. 1310-73-2] | Test passed                                                                           |
| Diesel<br>[CAS No. 68476-34-6]                    | Test passed                                                                           |
| IRM 901                                           | Test passed                                                                           |
| IRM 902                                           | Test passed                                                                           |

## Testing in a condensation changing climate in the presence of sulfur dioxide

|               |                      |
|---------------|----------------------|
| Specification | EN ISO 22479:2022-06 |
| Result        | Test passed          |
| Procedure     | Method B             |
| Cycles        | 2                    |

## Salt spray test

|               |                           |
|---------------|---------------------------|
| Specification | DIN EN 60068-2-11:2000-02 |
| Result        | Test passed               |
| Test duration | 96 h                      |

## Ambient conditions

|                                                     |                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -20 °C ... 60 °C                                                                |
| Recommended ambient temperature (storage/transport) | 23 °C                                                                           |
| Recommended humidity (storage/transport)            | 50 % (Storage in a dry and dark place in the original packaging is recommended) |
| Shelf life                                          | 1 Year                                                                          |

## Standards and regulations

|                 |                             |
|-----------------|-----------------------------|
| Wipe resistance | DIN EN 61010-1 (VDE 0411-1) |
|-----------------|-----------------------------|

## Mounting

|               |          |
|---------------|----------|
| Mounting type | adhesive |
|---------------|----------|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27281103 |
| ECLASS-15.0 | 27281103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001288 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39131500 |
|-------------|----------|

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## Environmental product compliance

|                                         |                            |
|-----------------------------------------|----------------------------|
| EU RoHS                                 |                            |
| Fulfills EU RoHS substance requirements | Yes, No exemptions         |
| EU REACH SVHC                           |                            |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt% |

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