

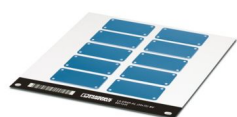
# LS-EMSP-AL (50X30) BU - Device marker



0831645  
<https://www.phoenixcontact.com/us/products/0831645>

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Device marker, Aluminum label, blue, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: screw, rivet, lettering field size: 50 x 30 mm, Number of individual labels: 10



## Your advantages

- Aluminum equipment marking for screwing or riveting
- Identification made from metal, high strength in a lightweight design
- Increased durability due to the decoratively anodized surface

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 0831645             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | BG19                |
| Product key                          | BG241D              |
| Catalog page                         | Page 283 (C-3-2019) |
| GTIN                                 | 4046356925877       |
| Weight per piece (including packing) | 85.49 g             |
| Weight per piece (excluding packing) | 77.58 g             |
| Customs tariff number                | 76169990            |
| Country of origin                    | CN                  |

## Technical data

### Product properties

|              |                |
|--------------|----------------|
| Product type | Device marking |
| Type         | Laser sheet    |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Marking

|                             |                      |
|-----------------------------|----------------------|
| Number of individual labels | 10                   |
| Identification technology   | Direct laser marking |

### Mounting

|               |              |
|---------------|--------------|
| Mounting type | screw, rivet |
|---------------|--------------|

### Material specifications

|            |                                          |
|------------|------------------------------------------|
| Color      | blue (RAL 5015)                          |
| Material   | Aluminum                                 |
| Components | free from silicone, halogen, and cadmium |

### 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 |
|--------|-------------|

#### Scratch test for the determining scratch resistance

|               |                                       |
|---------------|---------------------------------------|
| 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 | ISO 4892-2:2013-03 (following) |
| Result        | Test passed                    |
| Test duration | 96 h                           |

#### Weathering-resistance

|               |                    |
|---------------|--------------------|
| Specification | ISO 4892-2:2013-03 |
| Result        | Test passed        |
| Test duration | 2500 h             |

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|           |   |
|-----------|---|
| Procedure | A |
|-----------|---|

## Temperature resistance

|                        |                                 |
|------------------------|---------------------------------|
| Specification          | ANSI/UL 969-2018:03 (following) |
| Test duration          | 240 h                           |
| Rating 150 °C (180 °C) | Test passed                     |

## Wipe resistance of inscriptions

|                                                   |                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------|
| Specification                                     | DIN EN 61010-1 (VDE 0411-01):2020-03<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                                                                            |
| Acetone (99 %)<br>[CAS No. 67-64-1]               | Test passed                                                                            |
| Specification                                     | ISO 175:2010 (following)                                                               |
| Test duration                                     | 168 h                                                                                  |
| Ethanol (99 %)<br>[CAS No. 64-17-5]               | Test passed                                                                            |
| Acetone (99 %)<br>[CAS No. 67-64-1]               | Test passed                                                                            |
| IRM 901                                           | Test passed                                                                            |
| IRM 902                                           | Test passed                                                                            |

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

|               |                   |
|---------------|-------------------|
| Specification | DIN 50018:2013-05 |
| Result        | Test passed       |
| Climate level | AHT 1.0 S         |
| Cycles        | 2                 |

## Salt spray test

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

## Salt spray test

|               |                  |
|---------------|------------------|
| Specification | ISO 9227:2012-05 |
| Result        | Test passed      |
| Test duration | 336 h            |

## High pressure test

|               |                   |
|---------------|-------------------|
| Specification | ISO 20653:2013-02 |
|---------------|-------------------|

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

## Ambient conditions

|                                                     |                                                                                                       |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -25 °C ... 70 °C (At temperatures above 80 °C there might be a slight change to the material surface) |
| Recommended ambient temperature (storage/transport) | 23 °C                                                                                                 |
| Recommended humidity (storage/transport)            | 50 %                                                                                                  |

## Dimensions

|                   |          |
|-------------------|----------|
| Width             | 59.7 mm  |
| Text field width  | 50.00 mm |
| Text field height | 30.00 mm |
| Length            | 29.8 mm  |
| Hole diameter     | 3.20 mm  |
| Material strength | 0.80 mm  |

## Standards and regulations

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27281103 |
| ECLASS-12.0 | 27281103 |
| ECLASS-13.0 | 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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