

# LS-EMSP-V4A (90X60) - Device marker

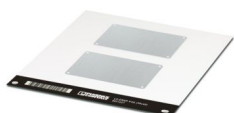


0831657

<https://www.phoenixcontact.com/gb/products/0831657>

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Device marker, Stainless steel label, silver, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: screw, rivet, Number of individual labels: 2, text field height: 60 mm, text field width: 90 mm



## Your advantages

- Stainless steel device marking for screwing or riveting
- Easy-to-clean and permanent identification that also meets stringent hygiene requirements
- High resistance to corrosion, acids, and temperatures

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 0831657             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 5 pc                |
| Sales key                            | BG241D              |
| Product key                          | BG241D              |
| Catalog page                         | Page 282 (C-3-2019) |
| GTIN                                 | 4046356925969       |
| Weight per piece (including packing) | 96.776 g            |
| Weight per piece (excluding packing) | 92.6 g              |
| Customs tariff number                | 73269098            |
| Country of origin                    | CN                  |

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## Technical data

### Product properties

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

### Marking

|                             |                      |
|-----------------------------|----------------------|
| Number of individual labels | 2                    |
| Identification technology   | Direct laser marking |

### Mounting

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

### Material specifications

|                |                                          |
|----------------|------------------------------------------|
| RoHS compliant | yes                                      |
| Color          | Steel/stainless steel color              |
| Material       | V4A (1.4404; AISI 316L)                  |
| 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 |
|--------|-------------|

#### Scratch test for the determining scratch resistance

|               |                                       |
|---------------|---------------------------------------|
| Specification | DIN EN ISO 1518-1:2019-10 (following) |
|---------------|---------------------------------------|

#### Tesafilem 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                           |
| Specification           | IEC 60068-2-2:2007-07          |
| Result                  | Test passed                    |
| Duration                | 240 h                          |
| Temperature for testing | 350 °C                         |

#### Temperature resistance

|                        |                                 |
|------------------------|---------------------------------|
| Specification          | ANSI/UL 969-2018:03 (following) |
| Test duration          | 240 h                           |
| Rating 225 °C (250 °C) | Test passed                     |

#### Wipe resistance of inscriptions

|               |                                     |
|---------------|-------------------------------------|
| Specification | DIN EN 61010-1 (VDE 0411-1):2011-07 |
|---------------|-------------------------------------|

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|                                                   |                                                |
|---------------------------------------------------|------------------------------------------------|
|                                                   | 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 (following) |
| 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 9227:2017-03 |
| Result        | Test passed      |
| Test duration | 336 h            |

## Ambient conditions

|                                                     |                                                                                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                     | -80 °C ... 350 °C                                                                                       |
| Recommended storage conditions                      | 23 °C/50 % relative humidity. Storage in a dry and dark place in the original packaging is recommended. |
| Recommended ambient temperature (storage/transport) | 23 °C                                                                                                   |
| Recommended humidity (storage/transport)            | 50 %                                                                                                    |
| Shelf life                                          | 24 months                                                                                               |

## Dimensions

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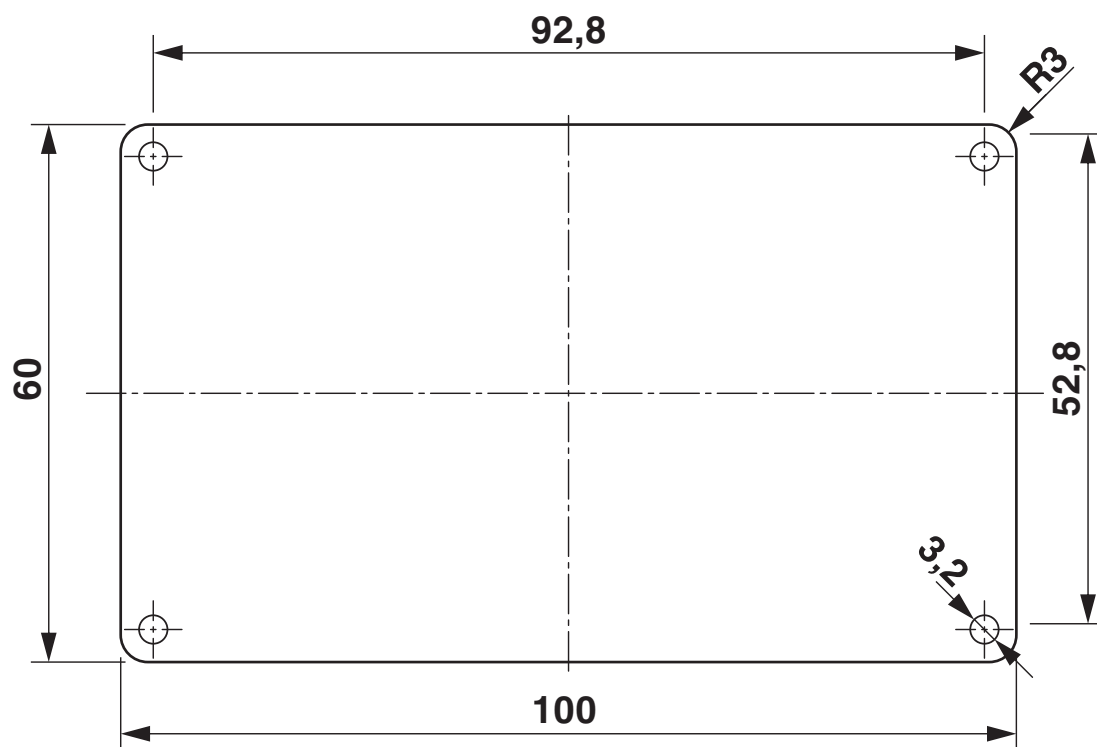
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|                           |  |                             |
|---------------------------|--|-----------------------------|
| Dimensional drawing       |  |                             |
| Width                     |  | 100 mm                      |
| Length                    |  | 60 mm                       |
| Hole diameter             |  | 3.20 mm                     |
| Material strength         |  | 0.50 mm                     |
| Text field                |  |                             |
| Text field width          |  | 90 mm                       |
| Text field height         |  | 60 mm                       |
| Standards and regulations |  |                             |
| Wipe resistance           |  | DIN EN 61010-1 (VDE 0411-1) |

## Drawings

Dimensional drawing



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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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