

# EMSP-AL (50X30) CUS - Aluminum label



0830505

<https://www.phoenixcontact.com/us/products/0830505>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Aluminum label, can be ordered: Piece, labeled according to customer specifications, mounting type: screw, rivet, Number of individual labels: 1, text field height: 30 mm, text field width: 50 mm



## Product description

Note:  
Due to the current challenges of the global procurement market, Phoenix Contact has unfortunately been forced to accept an aluminum alloy material quality that may cause the appearance to deviate from the homogenous surface quality that was previously expected. This has no impact on the quality of the aluminum labels themselves or the durability of the printing. The effect is purely visual.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 0830505                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | BG814B                         |
| GTIN                                 | 4046356719032                  |
| Weight per piece (including packing) | 5.38 g                         |
| Weight per piece (excluding packing) | 3.57 g                         |
| Country of origin                    | PL                             |

## Technical data

### Product properties

|              |               |
|--------------|---------------|
| Product type | Device marker |
|--------------|---------------|

### Marking

|                                     |   |
|-------------------------------------|---|
| Number of individual labels         | 1 |
| Number of individual labels per row | 1 |
| Number of bore holes                | 2 |

### Dimensions

|        |       |
|--------|-------|
| Width  | 60 mm |
| Length | 30 mm |

### Text field

|                   |       |
|-------------------|-------|
| Text field width  | 50 mm |
| Text field height | 30 mm |

### Material specifications

|                       |  |
|-----------------------|--|
| Color                 | aluminum color                           |
| Base element material | Aluminum                                 |
| Components            | free from silicone, halogen, and cadmium |

### Environmental and real-life conditions

#### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)                     | -25 °C ... 120 °C (> +80 °C slight changes of the material surface possible)    |
| Recommended ambient temperature (storage/transport) | 5 °C  |
| Recommended humidity (storage/transport)            | 50 % (Storage in a dry and dark place in the original packaging is recommended) |

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

|   |                    |
|---|--------------------|
| Testing for paint wetting impairment substances (LABS-conformity) | VDMA 24364:2018-05 |
| Result  | Test passed        |

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

|   |                      |
|---|----------------------|
| Testing for paint wetting impairment substances (LABS-conformity) | VW PV 3.10.7:2005-02 |
| Result  | Test passed          |

#### Scratch resistance

|               |                                |
|---------------|--------------------------------|
| Specification | EN ISO 1518-1:2023 (following) |
| Requirements  | ≥ 5 N                          |
| Result        | Test passed                    |

#### Tesafilm test

# EMSP-AL (50X30) CUS - Aluminum label



0830505

<https://www.phoenixcontact.com/us/products/0830505>

|               |                                     |
|---------------|-------------------------------------|
| Specification | DIN EN ISO 2409:2020-12 (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) |
| 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) |
| Isopropanol (99%) [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  |

## Immersion in chemicals, oil & fuel

|   |                          |
|---|--------------------------|
| Specification                                 | ISO 175:2010 (following) |
| Test duration                                 | 168 h                    |
| Saltwater (saturated 350 g/l)<br>[CAS No. - ] | Test passed              |
| Ethanol (99 %)<br>[CAS No. 64-17-5]           | Test passed              |
| Acetone (99 %)<br>[CAS No. 67-64-1]           | Test passed              |
| Methylethylketone (MEK)<br>[CAS No. 78-93-3]  | Test passed              |
| Gasoline<br>[CAS No. 64742-49-0]              | Test passed              |
| Diesel<br>[CAS No. 68476-34-6]                | Test passed              |
| IRM 901                                       | Test passed              |
| IRM 902                                       | Test passed              |
| IRM 903                                       | Test passed              |

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

# EMSP-AL (50X30) CUS - Aluminum label



0830505

<https://www.phoenixcontact.com/us/products/0830505>

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

## Salt spray test

|               |   |
|---------------|---|
| Specification | DIN EN IEC 60068-2-11 (VDE 0468-2-11):2022-10 |
| Result        | Test passed                                   |
| Test duration | 96 h  |

## Standards and regulations

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

## Mounting

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

# EMSP-AL (50X30) CUS - Aluminum label



0830505

<https://www.phoenixcontact.com/us/products/0830505>

## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001288 |
|-----------|----------|

### UNSPSC

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

# EMSP-AL (50X30) CUS - Aluminum label



0830505

<https://www.phoenixcontact.com/us/products/0830505>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)