

# LS-EMSP-AL (110X80) BK - Device marker



0831631

<https://www.phoenixcontact.com/us/products/0831631>

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Device marker, Aluminum label, black, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: screw, rivet, lettering field size: 110 x 80 mm, Number of individual labels: 2



## 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	0831631
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BG19
Product key	BG241D
Catalog page	Page 283 (C-3-2019)
GTIN	4046356925785
Weight per piece (including packing)	115.24 g
Weight per piece (excluding packing)	110.14 g
Customs tariff number	76169990
Country of origin	CN

## 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
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### Material specifications

RoHS compliant	yes
Color	black
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
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Result	Test passed
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#### 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	2000 h
Procedure	A

#### Temperature resistance

Specification	ANSI/UL 969-2018:03 (following)
Test duration	240 h
Rating 125 °C (150 °C)	Test passed

## Wipe resistance of inscriptions

Specification	DIN EN 61010-1 (VDE 0411-01):2020-03
	DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropyl [CAS No. 67-63-0]	Test passed
n-Hexane [CAS No. 110-54-3]	Test passed
Water + Petroleum ether [CAS No. 64742-82-1]	Test passed
Sodium hydroxide 0.1 mol/l [CAS No. 1310-73-2]	Test passed
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [CAS No. 67-64-1]	Test passed
Specification	ISO 175:2010 (following)
Test duration	168 h
Ethanol (99 %) [CAS No. 64-17-5]	Test passed
Acetone (99 %) [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
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

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Recommended humidity (storage/transport)	50 %
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## Dimensions

Width	120 mm
Length	80 mm
Hole diameter	4.20 mm
Material strength	1.50 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
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### UNSPSC

UNSPSC 21.0	39131500
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