

# LS-EMP-AL (27X18) BK - Device marker



0831670

<https://www.phoenixcontact.com/us/products/0831670>

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Device marker, Aluminum label, black (RAL 9005), unmarked, can be labeled with: TOPMARK NEO, TOPMARK LASER, mounting type: latching, Number of individual labels: 35, text field height: 18 mm, text field width: 27 mm



## Your advantages

- Aluminum equipment marking for snapping into marker carriers
- Identification made from metal, high strength in a lightweight design
- Increased durability due to the decoratively anodized surface

## Commercial data

Item number	0831670
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	BG19
Product key	BG241D
GTIN	4046356926041
Weight per piece (including packing)	81.88 g
Weight per piece (excluding packing)	81.88 g
Customs tariff number	76169990
Country of origin	CN

## Technical data

### Product properties

Product type	Device marker
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### Marking

Number of individual labels	35
Identification technology	Direct laser marking

### Dimensions

Width	27.00 mm
Height	17.60 mm
Depth	0.80 mm
Length	17.6 mm

### Text field

Text field width	27 mm
Text field height	18 mm

### Material specifications

RoHS compliant	yes
Color	black (RAL 9005)
Base element material	Aluminum
Components	free from silicone, halogen, and cadmium

### Environmental and real-life conditions

#### 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 %

#### 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

#### 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

#### Tesafilm test

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

#### UV resistance

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Specification	ISO 4892-2:2013-03 (following)
Result	Test passed
Test duration	96 h
Procedure	Artificial irradiation.

## Weathering-resistance

Specification	ISO 4892-2:2013-03
Result	Test passed
Test duration	1500 h
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 DIN EN 62208 (VDE 0660-511):2012-06 (in parts)
Isopropanol (99%) [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

## Immersion in chemicals, oil & fuel

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

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
IP-Code	IP X9K

## Standards and regulations

Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
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## Mounting

Mounting type	latching
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## Classifications

### ECLASS

ECLASS-13.0

27281106

### ETIM

ETIM 9.0

EC001530

### UNSPSC

UNSPSC 21.0

39131700

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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