



ZAMEL Sp. z o.o.

**zAMEL**

ul. Zielona 27, 43-200 Pszczyna, Poland  
Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04  
www.zamelcet.com, e-mail: marketing@zamel.pl

### DESCRIPTION

The LKM-03 power supply indicator is designed for single-phase system voltage signalling. Voltage presence is being signalled by means of a high-brightness LED. Various LED colour versions are available (red, green, yellow).

### FEATURES

- Single-phase voltage presence optical signalling,
- High-brightness LED applied,
- High durability optical indicator applied,
- Various LED colours available,
- Easy applicable together with atypical systems,
- monomodular casing,
- TH-35 DIN rail installation.

### TECHNICAL DATA

LKM-03	
Power terminals:	L, N
Rated voltage:	230 V~
Rated voltage tolerance:	-15 ÷ +10 %
Rated frequency:	50 / 60 Hz
Rated current for 10/20/30 versions:	3,5 mA / 15 mA / 15 mA
Power supply indicator:	LED
Number of terminal clamps:	2
Section of connecting cables:	0,2 ÷ 2,5 mm <sup>2</sup>
Ambient temperature range:	-20 ÷ +45 °C
Operating position:	freely
Mounting:	rail TH 35 (PN-EN 60715)
Protection degree:	IP20 (PN-EN 60529)
Protection level:	II
Overvoltage category:	II
Pollution degree:	2
Dimensions:	monomodular (17,5 mm) 90x17,5x66 mm
Weight:	45 g
Reference standards:	PN-EN 60947-5-1



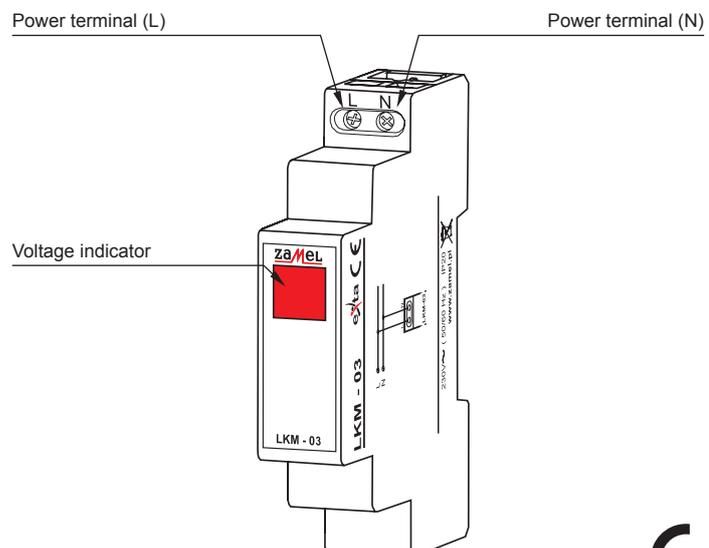
### CAUTION

The device is designed for three-phase installation and must be installed in accordance with standards valid in a particular country. The device should be connected according to the details included in this operating manual. Installation, connection and control should be carried out by a qualified electrician staff, who act in accordance with the service manual and the device functions. Disassembling of the device is equal with a loss of guarantee and can cause electric shock. Before installation make sure the connection cables are not under voltage. The cruciform head screwdriver 3,5 mm should be used to instal the device. Improper transport, storage, and use of the device influence its wrong functioning. It is not advisable to instal the device in the following cases: if any device part is missing or the device is damaged or deformed. In case of improper functioning of the device contact the producer.



The symbol means selective collecting of electrical and electronic equipment. It is forbidden to put the used equipment together with other waste

### APPERANCE

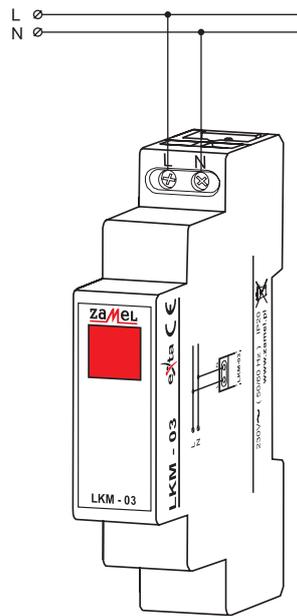


## MOUNTING, FUNCTIONING

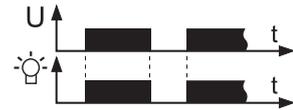
1. Disconnect the power supply from the mains by the phase fuse, the circuit-breaker or the switch-disconnector that are joined to the proper circuit,
2. Check if there is no voltage on connection cables by means of a special measure equipment,
3. Install LKM-03 device in the switchboard on TH-35 DIN rail,
4. Connect the cables with the terminals according to installing diagram,
5. Switch on the power supply from the mains.

The device is ready to work just right after its appropriate connecting. The LED indicator signals voltage presence of the selected phase wire. In case of the voltage lack LED does not light.

## CONNECTING



## TIME DIAGRAMMS



## PRODUCT FAMILY

LKM-03 power supply indicator belongs to LKM voltage indicators family.

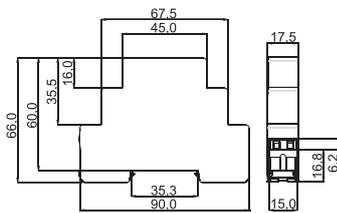
### LKM-xx-xx

Colour version:  
 10 - red LED (not applied to LKM-04, LKM-05)  
 20 - green LED (not applied to LKM-04, LKM-05)  
 30 - yellow LED (not applied to LKM-04, LKM-05)  
 40 - LED yellow, green, red (not applied to LKM-03)

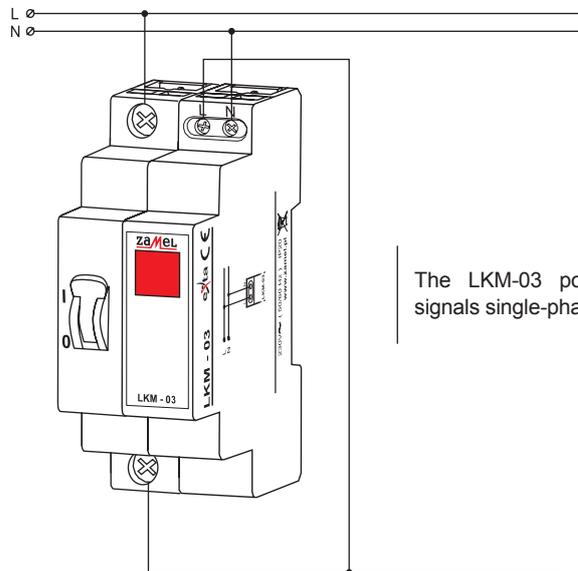
Device version:  
 01 - three-phase power supply with neutral wire N  
 02 - three-phase power supply without neutral wire N  
 03 - single-phase power supply with neutral wire N, high brightness LED  
 04 - three-phase power supply with neutral wire N, high brightness LEDs  
 05 - three-phase power supply with neutral wire N, high brightness LEDs

Device symbol

## DIMENSIONS

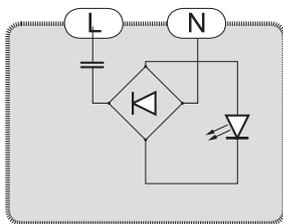


## APPLICATION



The LKM-03 power supply indicator signals single-phase voltage presence.

## INNER DIAGRAM



## WARRANTY CARD

There is 24 months guarantee on the product

Salesman stamp and signature, date of sale

1. ZAMEL provides a two-year warranty for its products.
2. The ZAMEL warranty does not cover: a) mechanical defects resulting from transport, loading / unloading or other circumstances b) defects resulting from incorrect installation or operation of ZAMEL products; c) defects resulting from any changes made by CUSTOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold; d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable; e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear);
3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect;
4. ZAMEL will review complaints in accordance with existing regulations.;
5. The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
6. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.