

**ELKO EP, s.r.o.**  
 Palackého 493  
 769 01 Holešov, Všetuly  
 Czech Republic  
 Tel.: +420 573 514 211  
 e-mail: elko@elkoep.com  
 www.elkoep.com

Made in Czech Republic

02-195/2016 Rev.: 0



## DIM6-3M-P

### Dimmer expander module



#### Characteristics

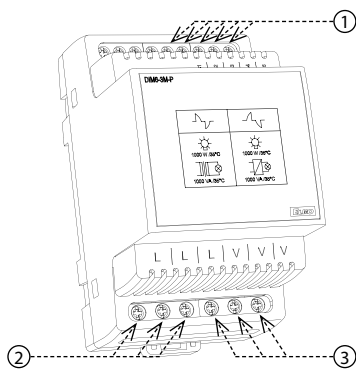
- Expansion power module for DIM-6, selfstand not applicable.
- DIM6-3M-P provides power increase (of about 1000 VA) of load connected to DIM-6 (it means: 2 000 VA (DIM-6) + 1 000 VA (DIM6-3M-P) = 3 000 VA).
- The DIM-6 can connect up to 8 pieces of DIM6-3M-P and control up to 10.000 VA (the load must be divided into individual power blocks so that their maximum power is not exceeded).
- Attention - device has to be protected by series breaker unit, compatible to size of connecting load.
- DIM-6 in installation is cooled by natural air flow. If the natural air flow access is reduced, cooling has to be provided by ventilator. Rated operating temperature is 35 °C.
- If there are several DIM6-3M-P connected to DIM-6, the distance between them has to be min. 2 cm.
- Max. length of bus EB is 1 m and the connection has to be realized by shielded cable.

#### Product loadability

a	b	c	d	e
R	L	C	ESL	LED
●	●	●	-	-

- a) lamp, halogen light  
 b) low-voltage el. bulbs 12/24V wound transformers  
 c) low-voltage el. bulbs 12/24V electronic transformers  
 d) energy saving bulbs  
 e) dimmable LED bulbs

#### Description

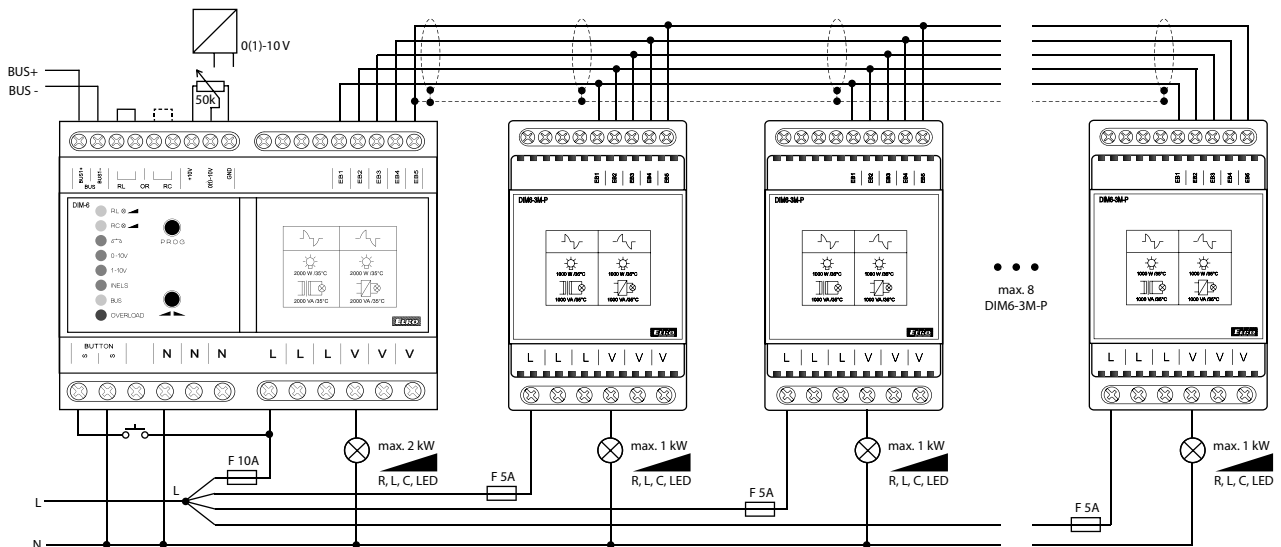


- Terminal for additional modul conductor bar
- Phase connection term
- Output terminals

#### Note

The DIM-6 dimmer (L, V) terminals and the DIM6-3M-P expansion module are three-fold for easier multi-part loads.

#### Connection



A quick fuse corresponding to the power of each module must be included in the L supply for each module.

**DIM6-3M-P**

Load	max. 1 000 VA
Max. dissipated power:	6 W

**Output**

Contactless:	2x MOSFET
Rated current:	5 A
Resistive load:	1 000 VA*
Inductive load:	1 000 VA*
Load capacity:	1 000 VA*

**Other information**

Operating temperature:	-20.. +35 °C
Storing temperature:	-30.. +70 °C
Operating position:	vertical
Mounting:	DIN rail EN 60715
Protection degree:	IP40 from front panel, IP20 terminals
Controlling device purpose:	operating control device
Controlling device construction:	additional control device
Automatic operating char.:	1.B.E
Heat and fire resistance category:	FR-0
Immunity category:	class 2
Rated impuls voltage:	2.5 kV
Overvoltage category:	III.
Pollution level:	2
Profile of connecting wires (mm <sup>2</sup> )	
- output part:	max. 1x 2.5, max. 2x 1.5 / with sleeve max. 1x 1.5 (AWG 12)
- control part:	max. 1x 2.5, max. 2x 1.5 / with sleeve max. 1x 2.5 (AWG 12)
Size:	90 x 52 x 65 mm (3.5" x 2" x 2.6")
Weight:	130 g (4.5 oz.)
Standards:	EN 60669-2-1, EN 61010, EN 55014

Device is constructed for connection in 1-phase main AC and must be installed according to norms valid in the state of application. Connection according to the details in this direction. Installation, connection, setting and servicing should be installed by qualified electrician staff only, who has learnt these instruction and functions of the device. This device contains protection against overvoltage peaks and disturbances in supply. For correct function of the protection of this device there must be suitable protections of higher degree (A, B, C) installed in front of them. According to standards elimination of disturbances must be ensured. Before installation the main switch must be in position "OFF" and the device should be de-energized. Don't install the device to sources of excessive electro-magnetic interference. By correct installation ensure ideal air circulation so in case of permanent operation and higher ambient temperature the maximal operating temperature of the device is not exceeded. For installation and setting use screw-driver cca 2 mm. The device is fully-electronic - installation should be carried out according to this fact. Non-problematic function depends also on the way of transportation, storing and handling. In case of any signs of destruction, deformation, non-function or missing part, don't install and claim at your seller. After the product exceeds lifetime, it should be removed and placed in protected dump. Important advice and warning: Dimmer is designated for managing brightness of el. bulbs, in case of low-voltage halogen lights with separating ferromagnetic transformer or electronic transformer. Warning: by signals HDO and similar signals that are distributed in the main, can create disturbances of dimmer. Disturbance is active only for the period of signal transmission.

\* Warning: it is not allowed to connect inductive and capacitive loads in the same time.