



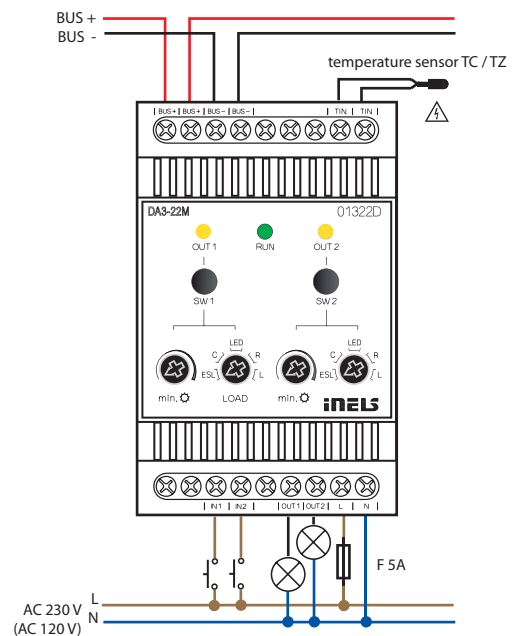
EAN code  
DA3-22M: 8595188132626  
DA3-22M/120V: 8595188133036

Technical parameters	DA3-22M	DA3-22M/120V
<b>Inputs</b>		
Input:	2x inputs, switching potential L*	
Temperature measuring:	YES, input for external thermo sensor TC/TZ	
Scope and accuracy of temp. measurement:	-20 to +120°C; 0.5°C from the range	
Number of control buttons:	2x buttons 4x potentiometers on front panel	
<b>Outputs</b>		
Output:	2x contactless outputs, 2x MOSFET	
Load type:	resistive, inductive, capacitive**, LED, ESL	
Isolation BUS separated from all internal circuits:	reinforced Insulation (Cat. II surges by EN 60664-1)	
Isolation voltage between particular power:	max. 500 V AC	
Minimal controlled load:	10 VA	
Maximal controlled load:	400 VA for each channel	200 VA for each channel
Output indication ON/OFF:	2x yellow LED	
Device protection:	thermal / short-term overload / long-term overload	
<b>Communication</b>		
Installation BUS:	BUS	
<b>Power supply</b>		
Supply voltage by BUS / tolerance:	27 V DC, -20 / +10 %	
Rated current:	5 mA (at 27V DC), from BUS	
Status indication unit:	green LED RUN	
Supply voltage for power section / tolerance:	AC 230V (50Hz), -15 / +10 %	AC 120V (60Hz), -15 / +10 %
Dissipated power:	max. 13 W	max. 7.5 W
<b>Connection</b>		
Terminal:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve	
<b>Operating conditions</b>		
Air humidity:	max. 80 %	
Operating temperature:	-20 to +35 °C	
Storing temperature:	-30 to +70 °C	
Protection degree:	IP20 device, IP40 mounting in the switchboard	
Overtoltage category:	II.	
Pollution degree:	2	
Operating position:	vertical	
Installation:	switchboard on DIN rail EN 60715	
Design:	3-MODULE	
<b>Dimensions and weight</b>		
Dimensions:	90 x 52 x 65 mm	
Weight:	170 g	

\* The inputs are not galvanically isolated from the supply voltage.  
\*\* Attention: It is not allowed to connect loads of inductive and capacitive character, at the same time.  
⚠ Input is connected to the mains voltage potential.

- DA3-22M is a universal dimming 2-fold actuator enabling control of brightness intensity of dimmable light sources of the type ESL, LED and RLC with power supply 230 V.
- DA3-22M has two MOSFET controlled outputs 230 V AC, maximum load is 2x 400 VA.
- Option of connecting an external temperature sensor.
- Each output channel is independently controllable and addressable.
- Type of light source is set by a switch on the front panel.
- By setting the min. brightness potentiometer on the front panel, flashing of different types of light sources is eliminated.
- DA3-22M is equipped with two inputs 230 V AC, which can be controlled by mechanical switches (buttons, relays). Inputs are galvanically connected to potential L, which is permanently at the terminals IN1 and IN2.
- Buttons on the front panel, you can manually switch on or off the corresponding output.
- Electronic overcurrent and thermal protection - switch off output in case of overload short circuit and overheating.
- The power supply (potential L) must be protected by a protective element corresponding to the power input of the connected load, e.g. a safety fuse.
- During installation, it is necessary to leave on each side of the actuator at least half the module space for better cooling.
- DA3-22M in 3-MODULE version is designed for mounting into a switchboard on DIN rail EN60715.








**Connection**











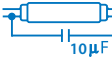



**Types of connectable loads**

type of source	symbol	description
R resistive		ordinary light bulb, halogen lamp
L inductive		coiled transformer for low-voltage halogen lamps
C capacitive		electronic transformer for low-voltage halogen lamps
LED		LED lamps and LED light sources, 230 V
ESL		dimnable energy-saving fluorescent tubes

## Loadability of contacts

Load	bulbs, halogen bulbs	12–24V low-voltage bulbs, coil transformers	12–24V low-voltage bulbs, electric transformers	LEDs	energy-saving fluorescent tubes	control method	
							
	R	L	C	dimmable	dimmable	entering edge	trailing edge
DA3-22M	•	•	•	•	•	•	•
DA3-06M	•	•	•	•	•	•	•

### Explanations

	<b>El. bulbs loads:</b> el. bulb, halogen light (R)		<b>Elektronic ballasts for fluorescent</b> (L)
	<b>Dimmer with defined load:</b> R - resistive, L - inductive, C - capacitive		<b>Inductive loads (transformers):</b> feromagnetic and toroid transformers for lights with various voltage.
	<b>Fluorescent light:</b> fluorescent lights uncompensated		<b>Switch:</b> switch - control contact of various device
	<b>Fluorescent light:</b> fluorescent light compensated in series		<b>Button:</b> control button
	<b>Fluorescent light:</b> fluorescent light compensated in parallel		<b>Control module:</b> analog control module 0 - 10 V
	<b>Fluorescent light:</b> fluorescent light economical		Motor

#### Category of use

#### Typical use

AC current,  $\cos\varphi = P/S$  (-)

AC-1	Non-inductive or slightly inductive load, resistance furnace Includes all appliances supplied by AC current with power factor ( $\cos\varphi$ ) $\geq 0.95$ Examples of usage: resistance furnace, industrial loads
AC-2	Motors with slip-ring armature, switching off
AC-3	Motors with short-circuit armature, motor switching when in operation This category applies to switching off motors with short-circuit armature while in operation. While switching, contactor switches current which is 5 up to 7 times rated current of motor.
AC-5a	Switching of electrical gas-filled lights, fluorescent lights
AC-5b	El. bulb switching Enables low contact loading due to resistance of cold filament is many times smaller than the one of hot filament.
AC-6a	Switching of transformers
AC-7b	Load of motors for home appliances
AC-12	Switching of semiconductor loads with separation transformers
AC-13	Switching of semiconductor loads with separation transformers
AC-14	Switching of low electro-magnetic loads (max. 72 VA)
AC-15	Management of alternating electro-magnetic loads This category applies to switching inductive loads with input for closed electro-magnetic circuit higher than 72 VA Use: switching coils of contactors

Note: Category AC 15 replaces formerly used category AC 11

DC current,  $t = L/R$  (s)

DC-1	Non-inductive or low inductive load, resistive furnaces
DC-3	Shunt motors: start-up, braking by backset, reversion, resistive braking
DC-5	Series motor: start-up, braking by backset, reversion, resistive braking
DC-12	Management of resistive loads and fixed loads with insulation by opto-electric element
DC-13	Switching of electromagnets
DC-14	Switching of electromagnetic loads in circuits with limiting resistor