

KNX

Overview rail mounted devices

dimming actuators

	Dimming actuator REG-K/2x230/300 W	Universal dimming actuator REG-K/4x230/ 150 W	
			
Article number	MTN646630	MTN649315	
Number of channels	2	4	
Device width	6 modules	6 modules	
Manual operation push-buttons	—	■	
Connecting terminal (consumer load)	Plug-in screw terminals	Plug-in screw terminals	
Nominal voltage	AC 230 V, 50 Hz	AC 220-230 V, 50/60 Hz	
Nominal power at 230 V			
■ Configuration of 4 channels	—	4 x 150 W/VA	
■ Configuration of 3 channels	—	1x300 W/VA, 2x150 W/VA	
■ Configuration of 2 channels	2x300 W/VA	2x300 W/VA	
■ Configuration of 1 channel	—	1x300 W/VA	
Minimum resistive load	25 W	25 W	
Minimum resistive-inductive load	25 VA	50 VA	
Minimum resistive-capacitive load	—	50 VA	
Automatic load detection	—	■	
Connection of different Phases	—	—	
Input for extension unit operation, lockable (switching, staircase lighting function)	—	AC 230 V, 50/60 Hz	
Software			
Manual operation enable/disable via bus	—	■	
Dimming function			
■ Minimum dimming value / Maximum dimming value	■ / —	■ / ■	
■ Starting behaviour / Memory function	■ / ■	■ / ■	
■ Dimming object switches channel	Only OFF	■	
■ Value object switches channel	—	■	
■ Same dimming time at central function and scenes	—	■	
■ Delay times for ON and OFF	—	■	
■ Base dimming curve with 3 thresholds	1 Threshold at 50 %	■	
■ Dimming time reduction via object	—	■	
■ 4 preconfigured dimming sets for the dimming time reduction*	—	■	
Staircase lighting function with/without manual OFF	—	■	
■ Retriggerable	—	■	
■ Not retriggerable	—	■	
■ Time addable	—	■	
■ Prewarn	—	■	
Scenes (1 byte)	—	8	
Central function	—	■	
Higher priority function	—	■ Disable function ■ Logic operation or priority function	
Logic operation			
■ AND, OR	—	■	
■ Switch object has an inverted impact to the logic operation	—	■	
Disable function			
■ Behaviour of locking after bus voltage recovery	—	■	
■ Behavior at the start/end of the locking	—	■	
Behaviour of bus voltage failure / bus voltage recovery / download	■ / ■ / —	— / ■ / ■	
Status messages			
■ Switch	■	■	
■ Brightness value	—	■	
■ Error	—	■	

4 switchable speed sets with 6 values. This corresponds to 24 storable dimming speeds for:
Switch on, switch off staircase timer, dim, values, scenes, higher priority functions.

KNX

Overview rail mounted devices

dimming actuators

	Universal dimming actuator REG-K/ 4x230/250 W	Universal dimming actuator REG-K/ 2x230/300 W	Universal dimming actuator REG-K/230/500 W	Universal dimming actuator REG-K/ 230/1000 W
				
	MTN649325	MTN649330	MTN649350	MTN649310
	4	2	1	1
	8 modules	4 modules	4 modules	4 modules
	■	■	■	■
	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals
	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz; 0,22-4,3 A 110 V, 50 Hz: 24-480 VA 230V, 50 Hz: 50-1000 VA 110 V, 60 Hz: 24-400 VA 230V, 60 Hz: 50-850 VA
	4 x 250 W/VA 1 x 500 W/VA, 2 x 250 W/VA 2x500 W/VA 1x500 W/VA	— — 2x300 W/VA 1x500 W/VA	— — — 1x500 W/VA	— — — 1x1000 W/VA
	25 W	25 W	25 W	25 W
	50 VA	50 VA	50 VA	50 VA
	50 VA	50 VA	50 VA	50 VA
	■	■	■	■
	■	—	—	—
	—	AC 230 V, 50/60 Hz	AC 230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz, mechanical push-buttons
	■	■	■	■
	■ / ■ ■ / ■ ■ ■ ■ ■ ■ ■ ■			
	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■
	8	8	8	8
	■	■	■	■
	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function
	■ ■	■ ■	■ ■	■ ■
	■ ■	■ ■	■ ■	■ ■
	— / ■ / ■	— / ■ / ■	— / ■ / ■	— / ■ / ■
	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■

Dimming actuators



Dimming actuator REG-K/2x230/300 W



Version	Art. no.
light grey	MTN646630

AC 230 V, 50 Hz

For switching and dimming incandescent lamps and dimmable, wound transformers (ohmic / inductive load).

(Phase control)

With integral bus coupler, plug-in screw terminals, short-circuit and overload protection and soft start function to protect the lamps.

Readiness for operation is indicated by a green LED after the application has been loaded, and an overload of one channel or both channels is indicated by a flashing light.

KNX software functions: Starting behaviour, memory function, dimming speed, switching off by relative dimming, configurable minimum brightness and behaviour on bus voltage failure/recovery are programmable.**Nominal voltage:** AC 230 V, 50 Hz**Nominal power/channel:** max. 300 W/VA**Minimum load:** 25 W/VA**Short-circuit protection:** via fuse**Device width:** 6 modules = approx. 108 mm**Contents:** With bus connecting terminal and cable cover.

Universal dimming actuator REG-K/230/1000 W



Version	Art. no.
light grey	MTN649310

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.**Nominal voltage:** AC 110-230 V $\pm 10\%$ **Operating voltage:** min. AC 92 V - max. AC 253 V**Mains frequency:** 50/60 Hz $\pm 2\%$ **Nominal load****Ohmic loads:** AC 110 V /50 Hz, 14-480 W

AC 230 V /50 Hz, 30-1000 W

AC 110 V /60 Hz, 14-400 W

AC 230 V /60 Hz, 30-850 W

Inductive/capacitive loads: AC 110 V /50 Hz, 24-480 VA

AC 230 V /50 Hz, 50-1000 VA

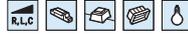
AC 110 V /60 Hz, 24-400 VA

AC 230 V /60 Hz, 50-850 VA

Input (extension unit operation): AC 110-230 V, 50/60 Hz (same phase as the dimming channel)**Device width:** 4 modules = approx. 72 mm**Extension unit operation:** Extension TELE insert MTN573998**Contents:** With bus connecting terminal and cable cover.



Universal dimming actuator REG-K/230/500 W



Version	Art. no.
light grey	MTN649350

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

Nominal voltage: AC 220 - 230 V, 50/60 Hz

Nominal power/channel: max. 500 W/VA

25 W minimum load (ohmic)

50 VA minimum load (ohmic/inductive/capacitive)

Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channel)

Device width: 4 modules = approx. 72 mm

Extension unit operation: Extension TELE insert MTN573998

Contents: With bus connecting terminal and cable cover.



Universal dimming actuator REG-K/2x230/300 W



Version	Art. no.
light grey	MTN649330

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

Nominal voltage: AC 220 - 230 V, 50/60 Hz

Nominal power/channel: max. 300 W/VA

25 W minimum load (ohmic)

50 W minimum load (ohmic/inductive/capacitive)

Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)

Device width: 4 modules = approx. 72 mm

Extension unit operation: Extension TELE insert MTN573998

Contents: With bus connecting terminal and cable cover.

Dimming actuators/control units



Universal dimming actuator REG-K/4x230/250 W



Version	Art. no.
light grey	MTN649325

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers (Automatic load detection).

(Phase control and phase alignment)

The connection of different outer conductors is allowed.

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

Bus connection is via bus terminals; a data rail is not necessary.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions: Dimming operation via KNX, Dimming operation on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

Nominal voltage: AC 220 - 230 V, 50/60 Hz

Channels: 4 (different phases possible)

Nominal power: 4 x 250 W/VA

3 channels: 1 x 500 W/VA and 2 x 250 W/VA

2 channels: 2 x 500 W/VA

Minimum load/channel: 25 W (ohmic)

50 VA (ohmic-inductive/ohmic-capacitive)

Device width: 8 HP = approx. 144 mm

Contents: With bus connecting terminal and cable cover.



Universal dimming actuator REG-K/4x230/150 W



Version	Art. no.
light grey	MTN649315

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

(Phase control and phase alignment)

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

Nominal voltage: AC 220 - 230 V, 50/60 Hz

Nominal power/channel: max. 150 W/VA

25 W minimum load (ohmic)

50 VA minimum load (ohmic/inductive/capacitive)

Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)

Device width: 6 modules = approx. 105 mm

Extension unit operation: Extension TELE insert MTN573998

Contents: With bus connecting terminal and cable cover.