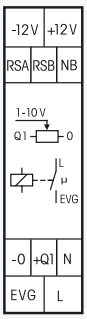
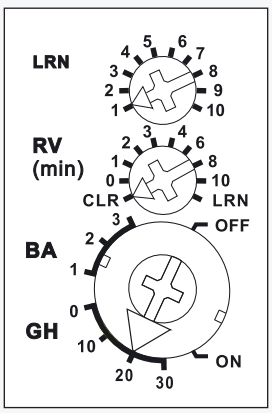
RS485 Bus Dimming Actuator – Constant Light Controller FKR12 for electronic ballast units 1-10 V

FKR12/1-10V

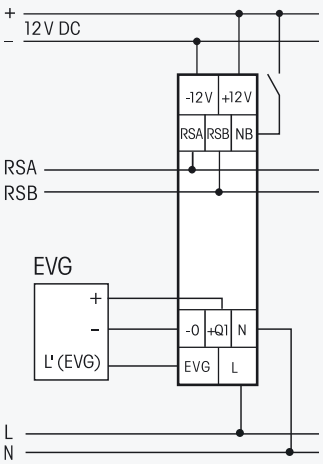


Function rotary switches



Standard setting ex works.

Typical connection



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Technical data, see page **T**-0.
Housing for operating instructions GBA12 page **Z**-4.

Dimming actuator 1 channel, 1 NO contact not potential free 600 VA and 1-10 V control output 40 mA. Only 0.9 watt standby loss.
Motion-dependent and brightness-dependent light control with the wireless motion/brightness sensor FBH.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

Zero passage switching to protect contacts.

The 12 V DC supply voltage of the complete RS485 bus is mainly powered at 6 W, 12 W or 24 W by a switch mode power supply unit SNT12-12 V DC that is only 1 or 2 pitch units wide. The power consumption of the 12 V DC power supply is only 0.05 W.

The brightness level is stored on switch-off (memory).

In case of a power failure the switch position and the brightness stage are stored and may be switched on when the power supply is restored.

Connection to the Eltako RS485 bus, terminals RSA and RSB.
Up to a total of 128 actuators can be added in this way.

By using a bistable relay coil power loss and heating is avoided even in the on mode.

After installation, wait for short automatic synchronisation before the switched consumer is connected to the mains.

Function of FKR12

The wireless constant light controller FKR12 receives its signals from one or several wireless sensors FBH via a wireless antenna module FAM12-12 V DC and then controls the 1-10 V output or switches the light on or off.

3 operation modes **BA** can be selected: **1 = fully automatic** (switch-on and switch-off is brightness and motion controlled), **2 = semi-automatic** (only switch-off is brightness and motion controlled) and **3 = switch-off is brightness controlled** (motion sensor is not active).

With one wireless pushbutton or wireless hand-held transmitter the automatic system can be overloaded to a preset value in order to dim the light for a beamer presentation, for example.

Several FBH can be taught-in in a FKR12. As long as one of the motion detection sensors FBH detects activity, the necessary lighting remains on and only after all FBHs report no activity for 1 minute does the adjustable time delay RV commence.

Only 1 FBH (Master) is used for the constant light control.

The FBHs can also be taught-in in several FKR12s. This not only allows an increase in the total switching capacity but also the set-up of zones with different brightness settings by setting different basic brightness values GH. Several independent FKR12 systems can be installed simultaneously.

To teach-in wireless pushbuttons and wireless hand-held transmitters, one rocker is taught-in as direction switches.

Tap the bottom part to switch the light off. Press the top or bottom to dim up or down. This shifts the control automatic towards brighter or darker. A double tap on the bottom part dims down to the taught-in value 'Beamer Presentation'. When the light is switched off and the top part is held down, the light is dimmed up from the lowest brightness level until the rocker is released. Resetting to automatic control is effected either by automatic light switch-off or by double-tapping the top direction switch.

The beamer value can additionally be taught-in in a further universal switch.

In addition to the beamer value the minimum brightness and the brightness for emergency lighting can be set and stored.

As long as the control input NB is connected to +12 V DC, it is dimmed to the set brightness for emergency lighting. All wireless signals are ignored then.

The upper rotary switch LRN is required for teach-in and for setting the base brightness.

The middle rotary switch RV is set after teach-in to the required delay time from 0 to 10 minutes. There is also an additional 1 minute of FBH.

The base brightness **GH** dependent on use of the room is set **with the lower rotary switch plus the upper rotary switch** adding the adjusted values. The smallest settable value is 1 (0+1), the largest value is 40 (30+10). The normal setting is approx. at 21.

The LED below the upper function rotary switch performs during the teach-in process according to the operation manual. It shows control commands by short flickering during operation.

FKR12/1-10V	RS485 bus dimming actuator constant light controller	EAN 4010312300923	**53,80 €/pc.**

Recommended retail prices excluding VAT.