

Type	F4HK14 FHK14 FSB14 FSR14-4x	FUD14 ¹⁾ FUD14/800W ¹⁾⁷⁾ FRGBW14	FSG14/1-10V ^{b)}	F2L14 ^{b)} F4SR14-LED FFR14, FMS14 FMZ14, FSR14-2x ^{b)} FTN14 ^{b)} FSR14M-2x ^{b)}	FSR14SSR
Contacts					
Contact material/contact gap	AgSnO ₂ /0.5 mm	Power MOSFET	AgSnO ₂ /0.5 mm	AgSnO ₂ /0.5 mm	Opto-Triac
Test voltage control connections/contact	-	-	-	2000 V	4000 V
Rated switching capacity each contact	4A/250 V AC	-	600 VA ⁵⁾	16A/250V AC; FMZ14: 10A/250V AC F4SR14: 8A/250 V AC	up to 400 W ⁶⁾
230 V LED lamps ⁹⁾	up to 200 W	Trailing edge up to 400 W Leading edge up to 100 W FUD14/800W: Trailing edge up to 800 W Leading edge up to 200 W	-	up to 400 W FSR14M: up to 600 W I on ≤ 120A/5 ms	up to 400 W ⁶⁾
Dimmable LED lamps 12-24 V DC		FRGBW14: 4 x 4 A			
incandescent lamps and halogen lamp load 230 V ²⁾	1000 W I on ≤ 10A/10 ms	up to 400 W; FUD14/800 W: up to 800 W ¹⁾³⁾⁴⁾	-	2000 W F4SR14: 1800 W I on ≤ 70A/10 ms	up to 400 W ⁶⁾
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	500 VA	-	-	1000 VA	-
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	250 VA, I on ≤ 10A/10 ms	-	600 VA ⁵⁾	500 VA	up to 400 VA ⁶⁾
Compact fluorescent lamps with EVG* and energy saving lamps ESL	up to 200 W ⁹⁾	up to 400 W ⁹⁾¹⁾	-	up to 400 W ⁹⁾	up to 400 W ⁶⁾⁹⁾
Inductive load cos φ = 0,6/230 V AC inrush current ≤ 35 A	650 W ⁸⁾	-	-	650 W ⁸⁾	-
Max. switching current DC1: 12 V/24 V DC	4 A	-	-	8 A (not FTN14 and FZK14)	-
Life at rated load, cos φ = 1 or for incandescent lamps 500 W at 100/h	>10 ⁵	-	>10 ⁵	>10 ⁵	∞
Service life at rated load, cos φ = 0,6 at 100/h	>4x10 ⁴	-	>4x10 ⁴	>4x10 ⁴	∞
Max. operating cycles	10 ³ /h	-	10 ³ /h	10 ³ /h	10 ³ /h
Maximum conductor cross-section (3-fold terminal)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	6 mm ²
Two conductors of same cross-section (3-fold terminal)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)	2.5 mm ² (1.5 mm ²)
Screw head	slotted/cross-head, pozidriv	slotted/crosshead, pozidriv	slotted/cross-head, pozidriv	slotted/crosshead, pozidriv	slotted/cross-head, pozidriv
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP50/IP20	IP50/IP20
Electronics					
Time on	100%	100%	100%	100%	100%
Max./min. temperature at mounting location	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C
Standby loss (active power)	0.1 W	0.3 W	0.9 W	0.05-0.5 W	0.1 W
Local control current at 230 V control input	-	-	-	5 mA	-
Max. parallel capacitance (approx. length) of local control lead at 230 V AC	-	-	-	FTN14: 0.3 μF (1000 m)	-

* EVG = electronic ballast units; KVG = conventional ballast units

^{b)} Bistable relay as relay contact. After installation, wait for short automatic synchronisation before teaching-in the wireless pushbuttons.

¹⁾ If the load exceeds 200 W (FUD14/800W:400W), a ventilation clearance of 1/2 pitch unit to adjacent devices must be maintained via the spacer DS14.

²⁾ Applies to lamps of max. 150 W.

³⁾ Per dimmer or capacity enhancer it is only allowed to use max. 2 inductive (wound) transformers of the same type, **furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed.** Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wound) and capacitive (electronic) transformers is not permitted!

⁴⁾ When calculating the load a loss of 20% for inductive (wound) transformers and a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load.

⁵⁾ Fluorescent lamps or LV halogen lamps with electronic ballast.

⁶⁾ Applies to one contact and the sum of both contacts.

⁷⁾ Capacity increase for all dimmable lamp types with Capacity Enhancer FLUD14.

⁸⁾ All actuators with 2 contacts: Inductive load cos φ = 0.6 as sum of both contacts 1000 W max.

⁹⁾ Generally applies to 230 V LED lamps and energy saving lamps (ESL). Due to different lamp electronics, switch on/off problems and a restriction in the maximum number of lamps, however, the dimming ranges may be limited depending on the manufacturer; in particular when the connected load is very low (e.g. with 5 W LEDs). The dimmer switch comfort settings EC1, EC2, LC1, LC2 and LC3 optimise the dimming range, however, the maximum power is then only up to 100 W. In these comfort settings, no inductive (wound) transformers may be dimmed.

The second terminating resistor has to be plugged to the last actuator included in the FAM14 respectively FTS14KS scope of supply.

Eltako Wireless is based on the EnOcean wireless standard for 868 MHz, frequency 868.3 MHz, data rate 125 kbps, modulation mode ASK, max. transmit power 7 dBm (<10 mW).