



# Caret

## Squirrel Cage

Delivering a warm light, the CARET lamp is an ideal retrofit solution for the Edison Squirrel Cage Lamp, which will be phased out.

It is particularly suited for use in chandeliers and design fixtures, where the lamp is visible at all times.

As the lamp is dimmable, it helps to create the desired atmosphere.

### Remarks concerning dimming

- Read the entire manual carefully before installation and operation.
- The Caret with dimming feature works with most conventional dimmers for incandescent lamps or halogens. Please refer to the recommended dimmer list on next page for further information.
- Certain dimmer switches may cause the Caret to flicker when it is illuminated below the “optimal minimum brightness level”. The knob on the dimmer switch can be adjusted to prevent flickering. (Note: Certain dimmer switches are equipped with a potentiometer. The potentiometer is a small device to fine-tune the setting for the desired minimum light output of the lamp without flickering.)
- The manufacturer accepts no liability for any damage resulting from the misuse of the lamp or from when it is used with inappropriate equipment.
- Consult the dealer if there are any questions about this product.

## Loading range

- Please pay attention to the minimum and maximum loads of the dimmer switch used.
- For the best dimming performance, the number of Carets connected should be within the minimum and maximum loads of the dimmer switch used.

Please see the following for the calculation:

## MINIMUM load requirement

Calculation: Minimum load of dimmer switch x 1/6 = Minimum required power of lamp(s)

For instance, if the minimum load of a dimmer switch is 60 VA, the total power for the CFLs connected should be at least 10 W (60 VA x 1/6)

The minimum load of the dimmer switch	Minimum required power when using the Caret	Minimum number of Caret(s) required (round up)
60 VA	60 VA x 1/6 = 10 W	10 W / 8 W = 1,25 → 2 pieces

The dimmable Caret may flicker if the total power of the Caret(s) connected is below the minimum load of the dimmer switch.

## MAXIMUM load requirement

Calculation: Maximum load of dimmer switch x 1/5 = Maximum allowed power of lamp(s)

For instance, if the maximum load of a dimmer switch is 300 VA, the total power for the CCFLs connected should be 60 W (300 VA x 1/5)

The maximum load of the dimmer switch	Maximum allowed power when using the Caret	Maximum number of Caret(s) allowed (round down)
300 VA	300 VA x 1/5 = 60 W	60 VA / 8 W = 7,5 → 7 pieces

Malfunction or failure of the dimmer switch may occur if the total wattage of the Caret connected exceeds the maximum load of the dimmer switch.

NOTE: Do not mix Caret Squirrel Cage revision 1 (C0045.1), Caret Squirrel Cage revision 2 (C0045.2), Caret Globe 115 (C0148.1) or any other lamp on the same dimmer.

Caret dimmer list (preliminary test list) - EU

Brand name	Model	Type	Power	Edge	Technology	Setting	Notes	Lamps
ABB	6591U-101-500	Rotary	60 - 420VA	Universal	Transistor	Trailing (auto)	1, 2, 6	-
Aurora	AU-DSP400X	Rotary	60 - 400VA	Leading	TRIAC		1, 3, 5	1 - 5
Berker	2866 10	Rotary	20 - 500VA	Leading	TRIAC		1, 2, 3, 5	5 - 10
Berker	2867 10	Rotary	20 - 360VA	Trailing	Transistor		1, 2, 7	1 - 9
Berker	2873	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Berker	2875	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
Berker	2902 R4	Touch	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
ELKO	315GLE	Rotary	20 - 315VA	Trailing	Transistor		1, 4	-
Eltako	EUD12Z-UC	DIN Rail	Max. 400VA	Universal	Transistor	Mode +ESL		1 - 10
Eltako	EUD61NPN-UC	Build-In	Max. 400VA	Universal	Transistor	Mode EC1		1 - 10
EverFlourish / GAO	EF(D)700DC	Rotary	20 - 300VA	Leading	TRIAC		1, 2, 3, 5	1 - 7
Gira	0305 00 / I04	Touch	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Gira	0592 13	Slider Cord	60 - 300VA	Leading	TRIAC		1, 2, 3, 5	1 - 4
Gira	0592 34	Slider Cord	20 - 500VA	Leading	TRIAC		8	-
Gira	1182 00 / I01	Rotary	20 - 360VA	Trailing	Transistor		1, 2, 7	1 - 9
Gira	1184 00 / I01	Rotary	60 - 400VA	Leading	TRIAC		1, 2, 3, 4, 5, 6	-
Gira	2262 00 / I01	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Hager	EVN002	DIN Rail	0 - 100VA	Universal	Transistor	Trailing (auto)	2	1 - 10
Hamilton	H-LED-STAT	Rotary	5 - 75VA	Universal	Transistor	Trailing	1	1 - 3
Insta	51010 R2	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
Insta	51020040 R3	Rotary	20 - 500VA	Leading	TRIAC		1, 3, 5	2 - 10
Insta	51175 R1	Rotary	60 - 400VA	Leading	TRIAC		1, 2, 3, 4, 5, 6	-
Insta	51180	Rotary	20 - 500VA	Leading	TRIAC		1, 2, 3, 5	5 - 10
Insta	51190	Rotary	20 - 360VA	Trailing	Transistor		1, 2, 7	1 - 9
Insta	53128 R4	Touch	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Insta	59213...	Slider Cord	60 - 300VA	Leading	TRIAC		1, 2, 3, 5	1 - 4
Insta	59234 R2	Slider Cord	20 - 500VA	Leading	TRIAC		8	-

Caret dimmer list (preliminary test list) - EU

Brand name	Model	Type	Power	Edge	Technology	Setting	Notes	Lamps
Inter BÄR	8114	Rotary Cord	20 - 200VA	Leading	TRIAC		1, 2, 3, 5	4 - 5
Jung	1254 UDE R4	Touch	50 - 420VA	Universal	Transistor	Trailing (auto)	1, 2	2 - 10
Jung	245Z	Slider Cord	20 - 500VA	Leading	TRIAC		8	-
Jung	266 GDE	Rotary	60 - 600VA	Leading	TRIAC		1, 2, 3, 5	2 - 10
MK Electric	K1525 WHI	Rotary	11 - 240VA	Leading	TRIAC		1, 4, 6	-
Merten	MTN577199	Rotary	20 - 315VA	Trailing	Transistor		1, 2	1 - 7
Mode Lighting	SD1500	Slider	20 - 1500VA	Leading	TRIAC		1, 3, 5	1 - 19
Niko	310-01301	Rotary	60 - 300VA	Leading	TRIAC		1, 2, 3, 5	2 - 7
Niko	310-01901	Rotary	5 - 200VA	Universal	Transistor	Mode CFLi1		1 - 10
Niko	330-00700	DIN Rail	5 - 200VA	Universal	Transistor	Mode CFLi1		1 - 10
Pera	T46	Rotary	20 - 315VA	Trailing	Transistor		1, 2	3 - 7
Schneider Electric	SBD315RC	Rotary	20 - 450VA	Trailing	Transistor		1	1 - 8
Siemens	5TC8 256	Rotary	50 - 400VA	Leading	TRIAC		1, 2, 3, 5	1 - 3
Sygonic	33595A	Rotary	20 - 315VA	Trailing	Transistor		1, 2	2 - 7
Vadsbo	LD220 - V-4022010IB	Touch	1 - 200VA	Trailing	Transistor		1, 5	1 - 5
Varilight	V-Pro Eclique Version 5K	Touch	10 - 300VA	Universal	Transistor	Trailing (auto)	1, 6	-
Wintop	13212	Rotary	50 - 300VA	Leading	TRIAC		1, 2, 3, 5	6 - 7

x - y	Dimmable, with x to y lamps - Recommended
x - y	Dimmable, with x to y lamps
-	The configuration shows undesirable dimming behavior
-	Combination not tested

Caret dimmer list (preliminary test list) - EU

Note	Declaration
1	Only switch the dimmer on at maximum brightness setting, to ensure lamp startup
2	Dimmer has no minimum setting
3	Dimmer has issues with multi-firing
4	Dimmer may become unstable at some brightness settings
5	Audible humming may be noticed
6	Lamps flash
7	Lamps may extinguish when brightness setting is decreased too fast
8	The use of this dimmer in combination with electronic lamps (e.g. CFL and LED lamps) is prohibited by the dimmer manufacturer

## Caret dimmer list (preliminary test list) – Australia + New Zealand

Brand name	Model	Type	Power	Edge	Technology	Setting	Notes	Lamps
Electrex	DM1000	Rotary	Max. 1000VA	Leading	TRIAC		1, 2, 3, 5	1 - 12
Electrex	DM500	Rotary	Max. 500VA	Leading	TRIAC		1, 2, 3, 5	1 - 6
KIWI	K004U	Rotary	5 - 400VA	Universal	Transistor	Leading (default)		1 - 10
KIWI	K004U	Rotary	5 - 400VA	Universal	Transistor	Trailing	1	1 - 10
PDL	Cat 654M	Rotary	20 - 450VA	Universal	Transistor	Trailing (auto)	1, 2, 4	1 - 11

x - y	Dimmable, with x to y lamps - Recommended
x - y	Dimmable, with x to y lamps
-	The configuration shows undesirable dimming behavior
-	Combination not tested

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