

## LED Drivers with different phase-cut dimmers

### **⚠ CAUTION!**

The maximum number of LED Drivers per dimmer is defined by the power of the LED Driver and the dimmer:

- \_ The total power of all connected LED Drivers must not exceed 50 % of the power of the dimmer.

#### **Example:**

- \_ Power of dimmer: 600 W -> 50 % power: 300 W
- \_ Power of LED Driver: 15 W
- \_ Maximum number of LED Drivers:  $300 \text{ W} : 15 \text{ W} \leq 20$  devices

## LED Drivers with different phase-cut dimmers

### Values for dimmers at full load: 42v\_350mA

Product name	Article number	Dimmer type <sup>1</sup>	LED Drivers per dimmer	Linearity	Noise rating <sup>2</sup>	Flicker rating <sup>3</sup>	Min dimming level	Summary <sup>4</sup>
Busch	6523 U-102	universal	1-12	1	1	1	9%	advisable
Berker	283010	leading	1-11	5	1	1	76%	not useful
Clipsal	32E450TM	trailing	1-12	1	1	1	5%	advisable
Clipsal	32E450UDM	universal	1-12	1	1	1	4%	advisable
ELKO	316GLED	trailing	1-9	1	1	1	5%	advisable
ELKO	315GLE-2Pole	trailing	1-9	1	1	1	0%	advisable
ELKO	315GLE	trailing	1-9	1	1	1	0%	advisable
Feller	40200.LED.F.61	universal	1-6	1	1	1	6%	advisable
GIRA	117600/I01	trailing	1-12	1	1	1	9%	advisable
JUNG	225 TDE	trailing	1-15	1	1	1	7%	advisable
JUNG	225NVDE	leading	1-3	1	1	2	0%	advisable
JUNG	254 UDIE 1	universal	1-17	1	1	1	8%	advisable
Niko	325	universal	1-9	1	1	1	3%	advisable
SAL	SDA450	trailing	1-12	1	1	1	5%	advisable
SAL	SDD350	trailing	1-10	1	1	1	5%	advisable
Siemens	5TCB 257	leading	1-14	1	1	2	2%	advisable
Clipsal	32ELEDM	trailing	1-11	1	1	2	3%	advisable
DIGINET/ MMDM	04-B3218-H	trailing	1-11	1	1	2	1%	advisable

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DIGINET/ MEDM	04-B1218-D	trailing	1-11	1	1	2	3%	<b>advisable</b>
SG Bluetooth	820322	trailing	1-11	1	1	2	1%	<b>advisable</b>
GIRA	30200	leading	1-17	5	1	2	87%	<b>not useful</b>
	1607	leading	1-11	5	1	2	25%	<b>not useful</b>
	6523U	leading	1-6	1	1	2	0%	<b>advisable</b>
Sunny	SDD400U	trailing	1-11	1	1	2	4%	<b>advisable</b>
Clipsal	31E2PUDM	trailing	1-11	1	1	2	6%	<b>advisable</b>
Trader	DIMR Trader Dimpala Eclipse	trailing	1-11	1	1	2	4%	<b>advisable</b>
Ansell	Orbio 360 LED	leading	1-10	1	1	2	5%	<b>advisable</b>
SCHNERDER	SBD315RC	trailing	1-9	1	1	2	5%	<b>advisable</b>
VARILIGHT	JQP401W	trailing	1-8	1	1	2	7%	<b>advisable</b>
MK	K1521 WHILV		1-8	1	1	2	9%	<b>advisable</b>

**LED Drivers with different phase-cut dimmers****Values for dimmers at min load: 27v\_350mA**

Product name	Article number	Dimmer type <sup>1</sup>	LED Drivers per dimmer	Linearity	Noise rating <sup>2</sup>	Flicker rating <sup>3</sup>	Min dimming level	Summary <sup>4</sup>
Busch	6523 U-102	universal	1-17	1	1	1	27%	advisable
Berker	283010	leading	1-17	5	1	1	57%	not useful
Clipsal	32E450TM	trailing	1-19	1	1	1	8%	advisable
Clipsal	32E450UDM	universal	1-19	1	1	1	6%	advisable
ELKO	316GLED	trailing	1-13	1	1	1	8%	advisable
ELKO	315GLE-2Pole	trailing	1-13	1	1	1	0%	advisable
ELKO	315GLE	trailing	1-13	1	1	1	0%	advisable
Feller	40200.LED.F.61	universal	1-8	1	1	1	9%	advisable
GIRA	117600/I01	trailing	1-17	1	1	1	11%	advisable
JUNG	225 TDE	trailing	1-22	1	1	1	7%	advisable
JUNG	225NVDE	leading	1-4	1	1	2	0%	advisable
JUNG	254 UDIE 1	universal	1-25	1	1	1	9%	advisable
Niko	325	universal	1-14	1	1	1	3%	advisable
SAL	SDA450	trailing	1-19	1	1	1	6%	advisable
SAL	SDD350	trailing	1-15	1	1	1	5%	advisable
Siemens	5TCB 257	leading	1-21	1	1	2	0%	advisable
Clipsal	32ELEDM	trailing	1-17	1	1	2	1%	advisable
DIGINET/ MMDM	04-B3218-H	trailing	1-17	1	1	2	5%	advisable

## LED Drivers with different phase-cut dimmers

DIGINET/ MEDM	04-B1218-D	trailing	1-17	1	1	2	3%	advisable
SG Bluetooth	820322	trailing	1-17	1	1	2	3%	advisable
GIRA	30200	leading	1-25	5	1	2	89%	not useful
	1607	leading	1-17	5	1	2	5%	not useful
	6523U	leading	1-8	1	1	2	3%	advisable
Sunny	SDD400U	trailing	1-17	1	1	2	6%	advisable
Clipsal	31E2PUDM	trailing	1-17	1	1	2	7%	advisable
Trader	DIMR Trader Dimpala Eclipse	trailing	1-17	1	1	2	0%	advisable
Ansell	Orbio 360 LED	leading	1-15	5	1	2	24%	not useful
SCHNERDER	SBD315RC	trailing	1-13	1	1	2	8%	advisable
VARILIGHT	JQP401W	trailing	1-12	1	1	2	6%	advisable
MK	K1521 WHILV	trailing	1-12	1	1	2	7%	advisable

### Explanation and rating definition:

1. Dimmer types: leading-edge, trailing-edge, universal
2. Noise evaluation: 1 (very little noise) -> 5 (strong noise).
3. Flicker evaluation: 1 (no flicker) -> 5 (strong flicker)
4. Summary rating:  
 advisable = no flicker and noise rating  $\leq 3$ ;  
 average = shimmer or big step, noise rating  $\leq 3$ ;  
 not good = flicker;  
 not useful = strong flicker