

## Technical data

Contacts	BZR12DDX	NR12	AR12DX/FR12	FR61
Contact material	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm	AgSnO <sub>2</sub> /0.5 mm
Spacing of control connections/contact	3 mm	>6 mm	–, AR12DX: >6 mm	–
Test voltage contact to contact	2000 V	–, NR12-002: 2000 V	–	–
Test voltage control connection to contact	–	4000 V	–, AR12DX: 4000 V	–
Rated switching capacity	10 A/250 V AC	10 A/250 V AC	16 A/250 V AC	10 A/250 V AC
Incandescent lamp and halogen lamp load <sup>1)</sup> 230 V, I <sub>on</sub> ≤ 70 A/10 ms	2000 W	2000 W	2300 W	1000 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA	1000 VA	1000 VA	1000 VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA	500 VA	1000 VA	500 VA
Compact fluorescent lamps with EVG* and energy saving lamps ESL	15x7W, 10x20W <sup>3)</sup>	I <sub>on</sub> < 70 A/10 ms <sup>2)</sup>	I <sub>on</sub> < 70 A/10 ms <sup>2) 3)</sup> AR12DX: 15x7W, 10x20W <sup>3)</sup>	I <sub>on</sub> < 70 A/10 ms <sup>2)</sup>
Max. switching current DC1: 12 V/24 V DC	8 A	8 A	–	–
Life at rated load, cos φ = 1 at 100/h and incandescent lamps 1000 W at 100/h	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>
Life at rated load, cos φ = 0.6 at 100/h	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>	> 4x10 <sup>4</sup>
Max. operating cycles	10 <sup>3</sup> /h	10 <sup>3</sup> /h	10 <sup>3</sup> /h	10 <sup>3</sup> /h
Switching position indication/voltage indication	Display	LED	LED	–
Maximum conductor cross-section	6 mm <sup>2</sup>	6 mm <sup>2</sup>	6 mm <sup>2</sup>	4 mm <sup>2</sup>
Two conductors of same cross-section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Screw head	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead
Type of enclosure/terminals	IP50/IP20	IP50/IP20	IP50/IP20	IP30/IP20
<b>Electronics</b>				
Time on	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
Control voltage range	0.9 bis 1.1xUnenn	180-250V/50-60Hz	0.9 to 1.1xrated voltage	0.9 to 1.1xrated voltage
Stand by loss (active power) 230V	0.5 W	0.8 W	0.8 W	0.8 W
Stand by loss (active power) 12V <sup>4)</sup>	0.05 W	–	–	–
Max. parallel capacitance (length) of control lead	0.06 μF (200 m)	0.06 μF (200 m)	0.06 μF (200 m)	0.06 μF (200 m)

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

<sup>1)</sup> Applies to lamps with max. 150 W.

<sup>2)</sup> A 40-fold inrush current must be expected for electronic ballast devices.

<sup>3)</sup> When using DX types close attention must be paid that zero passage switching is activated!

<sup>4)</sup> Standby loss at 24 V approx. two times greater than at 12 V.