

Technical data

Contacts	NR12	AR12DX/FR12	FR61
Contact material	AgSnO ₂ /0.5 mm	AgSnO ₂ /0.5 mm	AgSnO ₂ /0.5 mm
Spacing of control connections/contact	> 6mm	–, AR12DX: > 6mm	–
Test voltage contact to contact	–, NR12-002: 2000 V	–	–
Test voltage control connection to contact	4000 V	–, AR12DX: 4000 V	–
Rated switching capacity	10 A/250 V AC	16 A/250 V AC	10 A/250 V AC
Incandescent lamp and halogen lamp load ¹⁾ 230 V	2000 W	2300 W	1000 W
Fluorescent lamp load with KVG* in lead-lag circuit or non compensated	1000 VA	1000 VA	1000 VA
Fluorescent lamp load with KVG* shunt-compensated or with EVG*	500 VA	1000 VA	500 VA
Compact fluorescent lamps with EVG* and energy saving lamps ESL	I _{on} ≤ 70 A/10ms ²⁾	I _{on} ≤ 70 A/10ms ^{2) 3)} AR12DX: 15x7 W, 10x20 W ³⁾	I _{on} ≤ 70 A/10ms ²⁾
Max. switching current DC1: 12V/24V DC	8 A	–	–
Life at rated load, cos φ = 1 at 100/h	> 10 ⁵	> 10 ⁵	> 10 ⁵
Life for incandescent lamps 1000 W at 100/h	> 10 ⁵	> 10 ⁵	> 10 ⁵
Life at rated load, cos φ = 0.6 at 100/h	> 4 x 10 ⁴	> 4 x 10 ⁴	> 4 x 10 ⁴
Max. operating cycles	10 ³ /h	10 ³ /h	10 ³ /h
Switching position indication/voltage indication	LED	LED	–
Maximum conductor cross-section (3-fold terminal)	6 mm ² (4 mm ²)	6 mm ² (4 mm ²)	4 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)	1.5 mm ²
Screw head	slotted/crosshead, pozidriv	slotted/crosshead, pozidriv	slotted/crosshead
Type of enclosure/terminals	IP50 / IP20	IP50 / IP20	IP30 / IP20
Electronics			
Time on	100%	100%	100%
Max./min. temperature at mounting location	+50°C/-20°C	+50°C/-20°C	+50°C/-20°C
Control voltage range	180-250V/50-60Hz	0.9 to 1.1 x rated voltage	0.9 to 1.1 x rated voltage
Stand by loss (active power)	0.8 W	0.8 W	0.8 W
Max. parallel capacitance (length) of control lead	0.06 μF (200m)	0.06 μF (200m)	0.06 μF (200m)

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

¹⁾ Applies to lamps with max. 150 W.

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

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