



20...150 W

Performance characteristics

- Compact housing for application in slim luminaires
- Standard and sideways fixing using M4 screws
- Easy assembly using push-in terminals
- Flicker-free lamp operation
- Low noise emissions
- Safe lamp start from mains voltage 175 V
- Constant lamp output within $\pm 5\%$ in case of main power supply fluctuation of $\pm 10\%$
- Maximum lamp service life through optimum operation
- Automatic switch off in case of overheating
- Automatic switch off when end-of-life effect is detected
- Automatic safety switch off in case of abnormal lamp operation, e.g. at end of life
- Switch off in case of mains overvoltage from 320 V
- Switch off in case of mains undervoltage from 170 V
- Switch off ignition within 19 minutes; reset only through interruption of mains voltage
- Switch off of cycling lamp at end of life
- Reliable lamp start even at low temperatures up to -25°C
- Maximum distance between ECG and luminaire: 1,5 m
- Complies with international norms for safety, performance, electromagnetic compatibility and immunity to interference
- Protection class I
- Designed for use in indoor applications, e.g. shops, offices, lobbies
- Long service life of the ECG of 50.000h at $t_c = t_{c, \text{max}}$.
- Aluminium housing (35-150W) for improved heat dissipation

Technical data

General technical data	
Mains voltage supply	
Nominal voltage range	220 V – 240 V
Max. admissible voltage range (continuous)	198 V – 264 V
Frequency	50 Hz ... 60 Hz
Leakage current	< 0,5 mA / EVG
Max load capacity	120 pF
Nominal service life	50.000 h with a failure rate of $\leq 10\%$ and operation at $t_c = t_{c, \text{max}}$
Max. effective operating voltage U_{OUT}	250 V

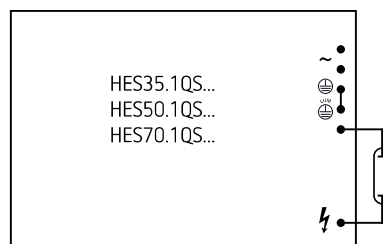
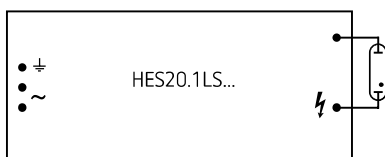
Standards compliance

- EN 61 347-1
- EN 61 347-2-9
- EN 61 000-3-2
- EN 61 000-3-3
- EN 61 547
- EN 55 015

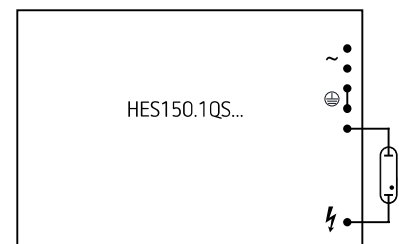
Markings



Wiring diagrams



This earth terminal may only be used to earth the luminaire!



ECG versions

Model	Order-No.	Lamp
HES20.1LS-01/220-240	10027222	Osram HCL...20 W
		GE CMH...20 W
		Sylvania CMI...20 W
HES35.1QS-11/220-240	10077616	Osram HCL...35 W, HQL...35 W
		Philips CDM...35 W
		Radium RCI...35 W, RCC...35 W
		BLV C-HIT 35 W, HIT 35 W
		GE CMH 35...
		Sylvania Brightspot ES50 35 W
HES50.1QS-11/220-240	10078015	Philips CDM-Elite 50 W
HES70.1QS-11/220-240	10077617	Osram HCL...70 W, HQL...70 W
		Philips MH...70 W, CDM...70 W, CDO...70 W
		Radium HRI...70 W, RCI...70 W, RCC...70 W
		BLV HI...70 W, C-HI... 70 W
		GE ARC 70..., CMH 70...

Description	Order-No.	Lamp
HES70.1QS-11/220-240	10077617	Sylvania HSL...75 W, HSL...70 W, CMI-T 70 W
		Venture MH-DE 70 W
		Iwasaki MT 70..., MHT 70..., CM...70 W
HES150.1QS-01/220-240	167162	Osram HCL...150 W, HQL...150 W, NAV...150 W
		Philips MH...150 W, CDM...150 W, CDO...150 W, SON...150 W
		Radium HRI...150 W, RCI...150 W, RCC...150 W, RNP...150 W
		BLV HI...150 W, C-HI...150 W, HS...150 W
		GE ARC...150, CMH...150, LU 150 W
		Sylvania HSL...150 W, CM...150 W, SHP...150 W
		Venture MH...150 W, HI...150 W
		Iwasaki MT 150 W, CM...150 W

Operating data

Model	Lamp power W	System rating W	Input current A	Operating frequency Hz	Power factor	Ignition voltage kV
HES20.1LS-01/220-240	20	23	0,10	166	> 0,95	4
HES35.1QS-11/220-240	39	43	0,19	166	> 0,95	3-5
HES50.1QS-11/220-240	50	54	0,25	166	> 0,95	3-5
HES70.1QS-11/220-240	73	80	0,35	166	> 0,95	3-5
HES150.1QS-01/220-240	150	165	0,72	166	> 0,95	3,5-5

Temperatures | Terminals | Weights

Model	Ambient (t _a)	Housing (t _c) max.	Push-in terminals	Weight kg	Packaging pcs/box
HES20.1LS-01/220-240	- 25 °C ... + 55 °C	70 °C	0,5 mm ² – 1,5 mm ²	0,12	50
HES35.1QS-11/220-240	- 25 °C ... + 65 °C	75 °C	0,5 mm ² – 1,5 mm ²	0,23	20
HES50.1QS-11/220-240	- 25 °C ... + 55 °C	75 °C	0,5 mm ² – 1,5 mm ²	0,24	20
HES70.1QS-11/220-240	- 25 °C ... + 55 °C	75 °C	0,5 mm ² – 1,5 mm ²	0,24	20
HES150.1QS-01/220-240	- 25 °C ... + 50 °C	80 °C	0,5 mm ² – 2,5 mm ²	0,37	6

Housing diagrams

