



PERFORMANCE LIGHTING



NEW

KHA LED
KHA SLIM LED

KHA LED, IP66, high-performance series of bollards conceived for lighting of residential and urban areas as well as parks and architectural grounds. Available in stainless steel and Akzo Nobel powder painted aluminum, satin gray and black finish, in two heights of 90 and 55 cm. With the goal of assuring the most suitable lighting for all installations and environments, they're also available with top-notch LED technology, white color, 3000, 4000 and 5000 K. A proper optic design also allows to avoid light pollution towards the sky and grants the most effective light comfort in absence of glare. The high technical content and quality of the materials, make the Kha series suitable even for the most prestigious installations.

- Die cast aluminium ground fixing base.
- Body and top cover available in aluminium or AISI 316 stainless steel for marine applications.
- Tecnopolymer wiring connection box, complete with automatic isolating switch, which interrupts supply on opening fitting to provide extra safety.
- High purity aluminium reflector.
- Impact resistant UV stabilised clear polycarbonate lamp cover.
- Anti-ageing silicone gaskets.
- Stainless steel external screws.

lampholder W class IP optic wiring Kelvin $\cos \varphi \geq 0,9$ EEI **AL - 81** **AL - 96** **INOX 04**

KHA 9 LED

Power LED 220/240 V 50/60 Hz

3000 K

1 LED	16 W	I	66	S	ETRC	•	3000	IK10 24J	06062581	06062696	06062704
1 LED	16 W	II	66	S	ETRC	•	3000	IK10 24J	06063481	06063596	06063604

4000 K

1 LED	16 W	I	66	S	ETRC	•	4000	IK10 24J	06062881	06062996	06063004
1 LED	16 W	II	66	S	ETRC	•	4000	IK10 24J	06063781	06063896	06063904

5000 K

1 LED	16 W	I	66	S	ETRC	•	5000	IK10 24J	06063181	06063296	06063304
1 LED	16 W	II	66	S	ETRC	•	5000	IK10 24J	06064081	06064196	06064204

KHA 5 LED

Power LED 220/240 V 50/60 Hz

3000 K

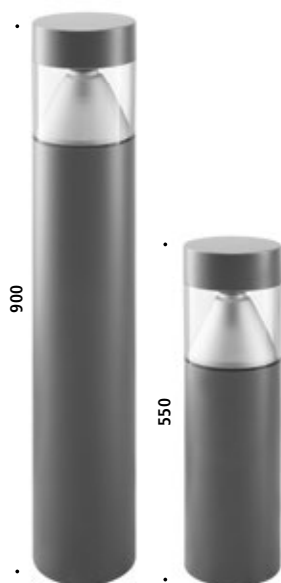
1 LED	16 W	I	66	S	ETRC	•	3000	IK10 24J	06059781	06059896	06059904
1 LED	16 W	II	66	S	ETRC	•	3000	IK10 24J	06060681	06060796	06060804

4000 K

1 LED	16 W	I	66	S	ETRC	•	4000	IK10 24J	06060081	06060196	06060204
1 LED	16 W	II	66	S	ETRC	•	4000	IK10 24J	06060981	06061096	06061104

5000 K

1 LED	16 W	I	66	S	ETRC	•	5000	IK10 24J	06060381	06060496	06060504
1 LED	16 W	II	66	S	ETRC	•	5000	IK10 24J	06061281	06061396	06061404



ACCESSORIES



Code	Denomination	Description
14049320	A0309	Concrete mounting adaptor with stainless steel plate and galvanised steel rods.
14002384	A0166	PG 13.5 anti-tearing cable gland for through wiring connection.

04 81 96

CLASS I



IP 66



IK 10 24J



KG

h 90: 6,8 kg
h 95: 5,2 kg



H05RN-F 3G2,5
3x2,5 mm²



CLASS II



	LED nominal colour temperature (K)	Typical LED CRI	N° LED	Nominal lumen output Tj 70°C	Total POWER (LED + Driver)	Estimated life time at 70% Flux (h)
KHA LED h 90 cm	3.000	80	1	1.320	16 W	50.000
KHA LED h 55 cm	4.000	80	1	1.520	16 W	50.000
	5.000	70	1	1.725	16 W	50.000

Kha LED, IP 66, high-performance series of slender bollards conceived for lighting of residential and urban areas as well as parks and architectural grounds. Available in stainless steel and Akzo Nobel powder painted aluminum, satin gray and black finish. KHA SLIM 93 LED and KHA SLIM 220 LED come with white color LED strips available in 3000, 4000 as well as 5000 K. The KHA SLIM 250 LED though, version with opal diffusor, comes with 3000 and 4000 K LED only.

- Body and top cover in AISI 316 stainless steel or aluminium polyester powder coated, black or grey sanded finished.
- UV stabilised high-tech techno polymer impact resistant lamp cover (PC-HT).
- High purity aluminium reflectors provide comfortable low glare light control and avoid reflection back onto lamp to improve its longevity.
- Models with 93 cm height are complete with fast and simple PA66 IP68 plug for electrical connection, suitable to take up to 3x1,5/2,5 mm² cables Ø9-14 mm.
- For h 220 and h 250 models, eased electrical connection thanks to an IP67 quick plug suitable for Ø7 to 17 mm cables.
- Through-wiring ready. 220-240 V / 50-60 Hz electronic ballasts for all models. 1-10 V analogic dimming for h 220 and h 250 models.
- Anti-ageing silicone gaskets.
- Stainless steel external screws.

KHA SLIM LED

design Silvia Paola Pennacchio

lampholder W class IP optic wiring Kelvin $\uparrow$ Cos ϕ $\geq 0,9$ EEI **AL - 81** **AL - 96** **INOX 04**

KHA SLIM 93 LED

Power LED 220/240 V 50/60 Hz

h 93 cm - 3000 K

1 LED	11,5 W	II	66	S	ETRC	•	3000	IK9 10J	•	06083381	06083496	06083504
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

h 93 cm - 4000 K

1 LED	11,5 W	II	66	S	ETRC	•	4000	IK9 10J	•	06083681	06083796	06083804
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

h 93 cm - 5000 K

1 LED	11,5 W	II	66	S	ETRC	•	5000	IK9 10J	•	06083981	06084096	06084104
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

KHA SLIM 220 LED

Power LED 220/240 V 50/60 Hz

h 220 cm - 3000 K

1 LED	11,5 W	II	66	S	ETRC	•	3000	IK9 10J	•	06080981	06081096	06081104
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

h 220 cm - 4000 K

1 LED	11,5 W	II	66	S	ETRC	•	4000	IK9 10J	•	06081281	06081396	06081404
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

h 220 cm - 5000 K

1 LED	11,5 W	II	66	S	ETRC	•	5000	IK9 10J	•	06081581	06081696	06081704
-------	--------	----	----	---	------	---	------	---------	---	----------	----------	----------

KHA SLIM 250 LED

Power LED 220/240 V 50/60 Hz

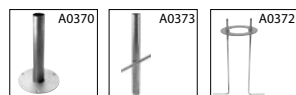
h 250 cm - 3000 K

96 LED	59 W	II	66	S	ETRC	•	3000	IK9 10J	•	A1	06082681	06082796	06082804
--------	------	----	----	---	------	---	------	---------	---	----	----------	----------	----------

h 250 cm - 4000 K

96 LED	59 W	II	66	S	ETRC	•	4000	IK9 10J	•	A1	06082981	06083096	06083104
--------	------	----	----	---	------	---	------	---------	---	----	----------	----------	----------

ACCESSORIES



Code	Denomination	Description
14071120	A0370	AISI 316 stainless steel floor installation base (suitable only for models 220/250 cm height).
14071220	A0373	Hot dipped galvanised fixing base for recessing into concrete (suitable only for models 220/250 cm height).
14071320	A0372	Galvanized steel rods with AISI 304 plate. Floor recessed anchorage unit (only for models 93cm height).

04 81 96

CLASS II

IP 66

IK 09 10J

F

KG
h 93: 4,2 kg
h 220: 8,6 kg
h 250: 9,4 kg

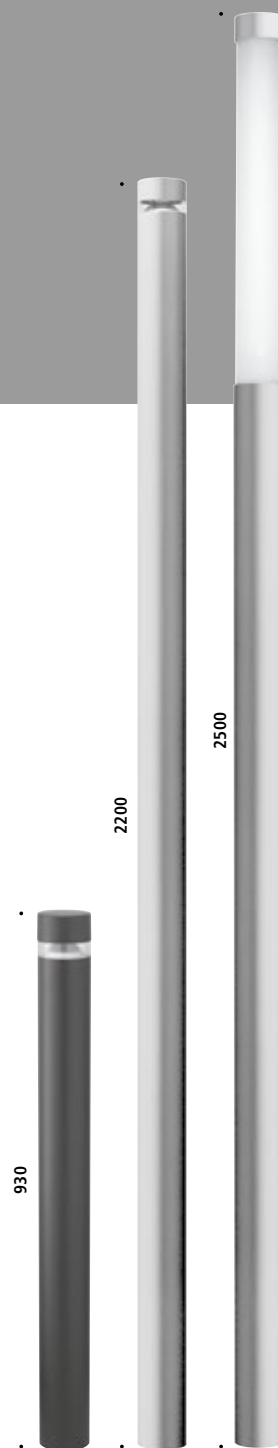
H250 - H220
Ø7-Ø17
3x2,5 mm²

H93
Ø9-Ø14
3x2,5 mm²

0,5m

CE

	LED nominal colour temperature (K)	Typical LED CRI	N° LED	Nominal lumen output Tj 70°C	Total POWER (LED + Driver)	Estimated life time at 70% Flux (h)
KHA SLIM LED h 93 cm	3.000	80	1	950	11,5 W	50.000
KHA SLIM LED h 220 cm	4.000	80	1	1.100	11,5 W	50.000
	5.000	70	1	1.240	11,5 W	50.000
KHA SLIM LED h 250 cm	3.000	80	4	5.800	58,9 W	45.000
	4.000	80	96	6.000	58,9 W	45.000



**PERFORMANCE
LIGHTING**

SBP® and **SBP URBAN LIGHTING**® are brands of
PERFORMANCE IN LIGHTING s.p.a.
via Provinciale, 57 - 24050 Ghisalba (BG) - Italia
info@sbp-pil.com
www.performanceinlighting.com

UK - Performance in Lighting (UK) Limited
Imex Spaces Business Centre
Oxleasow Road, East Moons Moat
Redditch
Worcestershire B98 0RE
Tel. +44 (0) 1527 830439
Fax +44 (0) 1527 830440
info1@pil-uk.com