BEKA Schréder

Experts in lightability™

BEKABRITE

LED bollard

BEKABRITE

IP 66

IK 07

10kV

Comfort and performance

The BEKABRITE has been developed to create both an efficient visual guidance and a pleasant ambiance.

The BEKABRITE is a robust luminaire consisting of a head assembly and a pole base assembly. The pole base assembly is manufactured from glass filament wound GRP or aluminium adding to the robust construction of this luminaire.

This efficient bollard with a refined design that blends into all environments provides effective lighting solutions for outdoor spaces, such as pedestrian areas, parks, walkways, car parks and bike paths.

Whether enhancing the environment or offering visual guidance for people at night, the BEKABRITE is the right tool to achieve your goal with minimal energy consumption.

BIKE & PEDESTRIAN PATH

SQUARES & PEDESTRIAN AREA

CAR PARK

SHOPPING CENTRE

PUBLIC BUILDINGS

SPORT AREA

SERVICE STATION

Key advantages

- Designed and manufactured in South Africa
- Robust and vandal resistant
- Head sealed from pole base
- Corrosion-resistant poles
- Marine grade high-pressure die-cast aluminium head (EN 1706 AC-44300)
- Available in various colours
- 3-year warranty (*)

(*) Terms and conditions apply

Characteristics

GENERAL INFORMATION	
Recommended bollard spacing	Up to 9.5m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262

HOUSING AND FINISH	
Head	Head - Marine grade high-pressure die-cast aluminium head (EN 1706 AC-44300)
Pole	Buried: Glass filament wound GRP
	Surface mount: Extruded aluminium (optional)
Protector	High-impact clear acrylic
Housing finish	Refer to Standard Colours table on page 4
Tightness level	IP 66
Impact resistance	High-impact acrylic: IK 07

DIMENSIONS AND MOUNTING	
Weight (kg)	Buried version - GRP pole: 11
	Surface mount version - aluminium pole: 9
Mounting	Buried
	Surface mount (optional)

ELECTRICAL INFORMATION	
Electrical class	EU class I or II
Nominal voltage	198V-277V - 50Hz
Power factor	> 95% at full load
Surge protection	10kV / 10kA
Electromagnetic compatibility (EMC)	SANS 55015:2013/A1:2015, SANS 61000-3-2:2014, SANS 61000-3-3:2013, SANS 61547:2009, SANS 62493:2015

OPTICAL INFORMATION	
LED colour temperature	4000K (Neutral white 840)
Colour rendering index (CRI)	≥ 80 (Neutral white 840)
Upward Light Output Ratio (ULOR)	≤ 7.3%

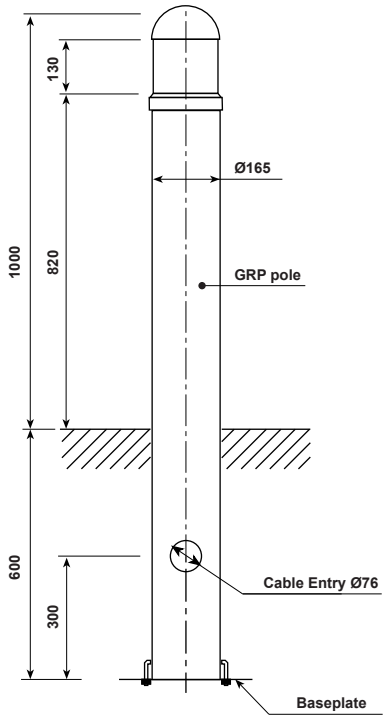
OPERATING CONDITIONS	
Operating temperature range (Ta)	-20°C up to +35°C

LIFETIME OF THE LEDS @ TQ 25°C	
For all versions	80,000h - L70

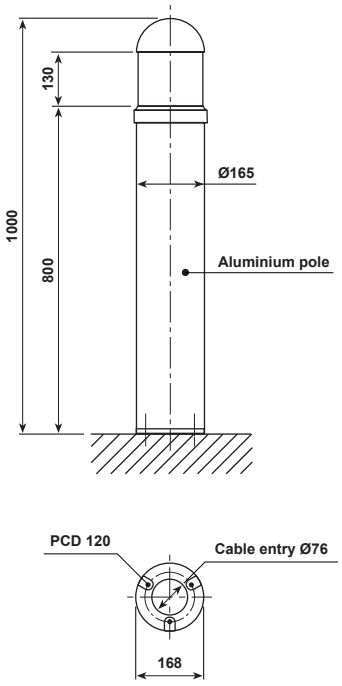
LIFETIME OF THE DRIVER @ TQ 25°C	
For all versions	100,000h ≤10% failure rate

For options and accessories, please turn to page 6.

Buried version



Surface mount version



Performance

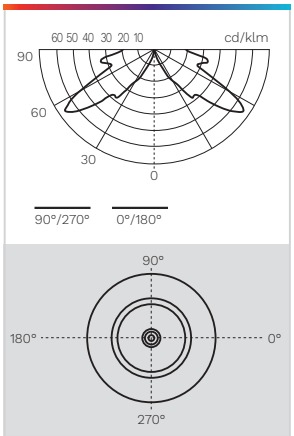
			Nominal flux (lm)[1]	Power consumption (W)	Nominal efficacy (lm/W)
Luminaire	Current (mA)	Line Current (A)	Typical	Typical	Typical
BEKABRITE	117	0.13	3917	30	130

Tolerance on LED flux is ± 7% and on total luminaire power ±5%

[1] The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer's data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing rapid progress taking place in LED technology.

Light Distribution

BEKABRITE



Standard Colours

Head (*)	**Pole - GRP version**	**Pole - Aluminium version** (*)
Black - RAL 9017, Textured finish	Black - K200, Brilliant finish	Black - RAL 9017, Textured finish
Pearl Light Grey - RAL 9022, Textured finish	Black - K200, Brilliant finish	Black - RAL 9017, Textured finish
Pearl Light Grey - RAL 9022, Textured finish	Pearl Light Grey - K9186, Brilliant finish	Pearl Light Grey - RAL 9022, Textured finish
White - RAL 9016, Textured finish	White - K100, Brilliant finish	White - RAL 9016, Textured finish

(*) Other colours available on request

Key Features

The bead blasted aluminium louvre system provides low-level lighting and glare control.

Various colour combinations and options available

The optional stainless steel sleeve protector protects the GRP pole from lawnmowers and trimmers

Construction Details

The luminaire consists of a head assembly containing the optics, as well as a pole base assembly containing the control gear. The pole base assembly is manufactured from glass filament wound GRP or extruded aluminium. It is designed to operate LEDs of 30W.

The bollard head assembly is manufactured from three marine grade high-pressure die-cast aluminium castings consisting of the base casting which is fixed permanently to the pole, the top casting which compresses the gasket system by three tie bars and the dome trim casting. The trim casting is held to the top casting with a special anti-twist device and one stainless steel special coded access screw. The gasket system ensures that the bollard head assembly is completely sealed from the pole base assembly to ensure that no humidity or dust from the pole assembly rises into the lamp compartment. The bollard protector is manufactured from a high temperature, non-discolouring clear impact resistant acrylic with a wall thickness of not less than 8mm. The protector is seamless and smooth on both the inside and outside.

The optical system consists of a bead blasted aluminium louvre system providing quality low-level lighting and glare control.

The control gear is incorporated inside the pole base assembly and is mounted on a 2mm stainless steel gear tray which is held to the base casting with two captive screws for ease of maintenance. It is suitable for operation with the specified rating of the light source on a 198V-277V 50Hz single phase system. All control gear components are removable and bear the relevant SABS mark. All internal wiring is Teflon® coated with protective sleeving to prevent damage by possible abrasion. All screws, bolts and metal parts are stainless steel or non-corrosive material.

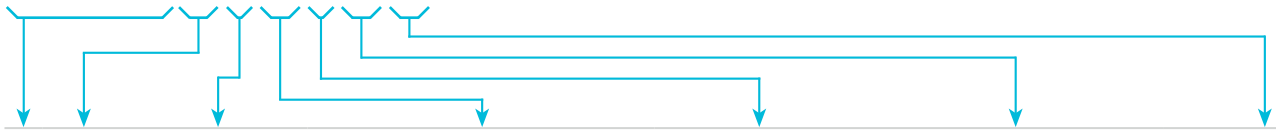
Mains connections are by means of a suitable screw terminal block with a wire clamping contact.

The power factor is rated at ≥0,95.

Ordering Information

Example:

BEKABRITE 30 N BB B BP SL



ID	Watt	LED Colour	Colour Options[1]	Finish	Mounting	Other Options
BEKABRITE	30	**N** Neutral White (4000K)	**BB** **Head:** Black **Pole:** Black **SS** **Head:** Pearl Light Grey **Pole:** Pearl Light Grey **WW** **Head:** White **Pole:** White **SB** **Head:** Pearl Light Grey **Pole:** Black **P/O** **Head:** Painted Other (RAL / Finish [Brilliant/Matt]) **Pole (Aluminium):** Painted Other (RAL / Finish [Brilliant/Matt]) **Pole (GRP):** Painted Other (refer to BEKAPOLE brochure)	**B** Brilliant finish (GRP pole) **T** Textured finish (Aluminium pole)	**BP** Buried, with base plate (GRP pole & Aluminium pole) **SM** Surface mounted (Aluminium pole)	**SL**[2] Sleeve protector

[1] Refer to Standard Colours table (page 4)
[2] GRP pole (buried) version only

Custom Options

Correlated colour temperature	3000K (Warm white 830)

BEKA Schréder

Experts in lightability™

SABS ISO 9001

www.beka-schreder.co.za

Designed and manufactured by BEKA Schréder (Pty) Ltd

LOCALLY manufactured

2023-06