

# OPTIWAY

Robust, efficient and reliable LED bulkhead



**LOCALLY**  
manufactured

# OPTIWAY



IP 66

IK 10



Housing - clear



Housing - grey

## A small, highly versatile and robust low-power LED bulkhead

Introducing one of our most versatile and reliable industrial luminaires: OPTIWAY. It can be mounted on any structure, is highly robust and offers a high photometric performance.

The OPTIWAY utilizes the latest LED technology and unique optical distribution that suits most lighting applications. Its small size and robust design will provide the necessary amount of light for any low-power bulkhead application.

The OPTIWAY is suitable for use in various industrial environments, which include underground haulage, outdoor mining areas, oil and gas refineries, food and beverage plants, manufacturing process plants and any application that requires a low power and robust luminaire. The uniquely designed optional OPTILINK plug-in system simplifies the installation process significantly, especially for underground mining applications.

The high quality of light and the large range of input voltages make it possible to use this bulkhead for 230VAC or ranging from 90-305VAC. The design and choice of materials used make the OPTIWAY highly vandal resistant.

Various mounting options, including a wall mounting bracket, hook bracket, or mounting by simply using a metal or plastic cable tie, make this luminaire a truly versatile low-power bulkhead.

## Key advantages

- Designed and manufactured in South Africa
- Ta of up to 45°C (Not applicable to all configurations)
- Robust corrosion-resistant housing and diffuser
- Latest LED technology with maximised system efficacy
- Optimised optical distribution
- Maintenance-free lifespan of 50 000 operating hours
- Various mounting options available
- Standard version supplied with 500mm heavy duty, flame retardant, oil resistant rubber-sheathed HO7 cable
- Optional OPTILINK plug-in system for underground mining applications
- Available in neutral white light (4000K) with a CRI >80
- Surge protection 3kV/3kA - Optional: 10kV/10kA
- 3-year warranty (Terms and conditions apply)



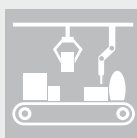
HAULAGE LIGHTING



INDUSTRIAL HALLS



WAREHOUSES



ASSEMBLY LINES



STAIRWAYS



STATION CORRIDORS

# Characteristics

## GENERAL INFORMATION

Recommended installation height	Up to 6m
Driver included	Yes
ROHS compliant	Yes
Testing standard	SANS 60598, SANS 62262

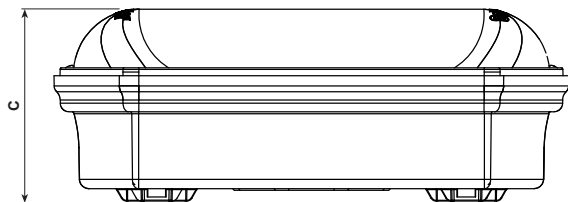
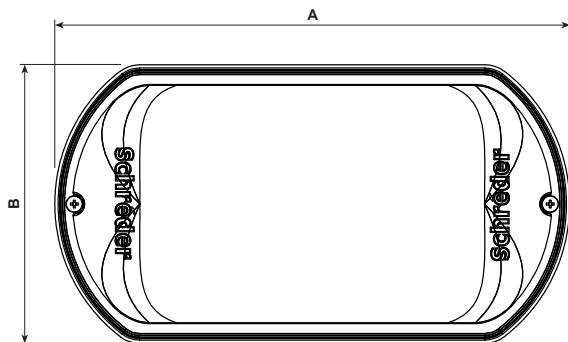
## HOUSING AND FINISH

Body	Polycarbonate (clear) <sup>(*)</sup>
	Polycarbonate (grey) <sup>(*)</sup>
Optic	Acrylic PMMA
Protector	Polycarbonate
Tightness level	IP 66
Impact resistance	IK 10

<sup>(\*)</sup> Suitable for Food & Beverage industry

## DIMENSIONS AND MOUNTING

AxBxC (mm)	248x134x93
Weight (kg)	0.6



## ELECTRICAL INFORMATION

Electrical class	EU class II
Nominal voltage	90-305V – 50Hz (Universal voltage) 230V +3%/-10% - 50Hz
Power factor	> 95% at full load
Surge protection	3kV / 3kA 10kV / 10kA (optional)
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)
Standard optic	3100

## OPERATING CONDITIONS

Operating temperature range (Ta)	-20°C up to +45°C <sup>(**)</sup> (Not applicable to all configurations)
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<sup>(\*\*)</sup> Depending on the luminaire fixation and driving current. For more details, please contact us.

## LIFETIME OF THE LEDS @ TQ 25°C

For all versions	50,000h - L80B10
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## LIFETIME OF THE DRIVER @ TQ 25°C

For all versions	50,000h ≤10% failure rate
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For options and accessories, please turn to page 6.

# Performance



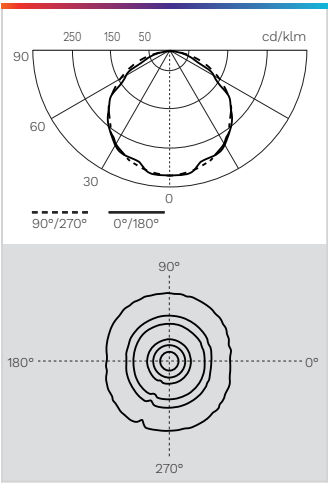
					Nominal flux (lm) <sup>(*)</sup>	Power consumption (W)	Nominal efficacy (lm/W)	Luminaire output flux (lm)	Luminaire efficacy (lm/W)	Photometry
Luminaire	Supply Voltage (V)	Number of LEDs	Driver Current (mA)	Line Current (A)	Typical	Typical	Typical	Typical	Typical	
OPTIWAY	230	16	350	0.04	1220	10	122	1074	107	3010 3100
		16	500	0.04	1630	13	125	1434	110	
	90-305	16	350	0.03-0.09	1220	10	122	1074	107	
		16	500	0.05-0.15	1630	13	125	1434	110	

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

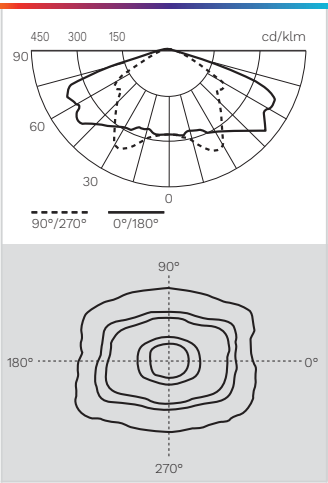
(\*) The nominal flux is an indicative LED flux @ Ts 85°C based on LED manufacturer’s data. The real flux output of the luminaire depends on environmental conditions (e.g. temperature and pollution) and the optical efficiency of luminaire. The type of LED used is subject to change due to the ongoing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

# Light Distributions

3010 optic - no lens



3100 optic





# Key Features



Very robust, reliable and maintenance-free LED bulkhead



Transparent housing for added upward lighting content

## Construction Details

The OPTIWAY consists of a polycarbonate or acrylic housing, which is sealed by means of a silicone gasket. The specially designed closing mechanism seals this luminaire permanently to IP 66 and prevents internal access, which would lead to damage and the reduction of the lifetime and performance of the luminaire.

The newest LED technology has been utilized while limiting the maximum wattage and the lumen output in order to optimize the thermal environment of the electronic components. Thereby, the bulkhead is able to last at least 50 000 hours in the most extreme environment.

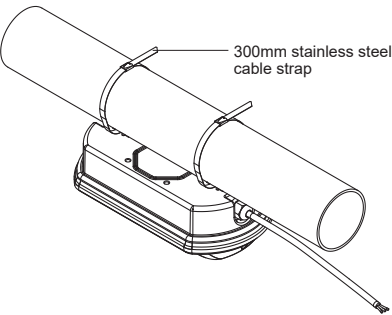
Electronic temperature monitoring prevents overheating of LEDs and power supply (ThermiX®).

To maximize the reliability of the LEDs, the photometric engine and control gear compartment are completely sealed to IP 66. This ensures that the photometric performance is maintained over time.

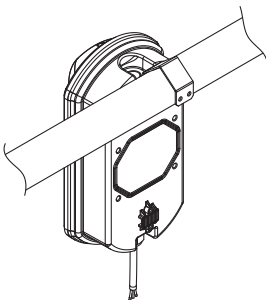
The OPTIWAY is designed for LED light sources between 10W and 13W.

# Mounting Options

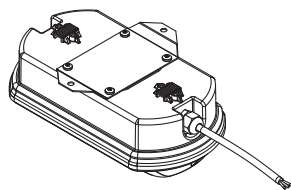
Strap mounting (standard)



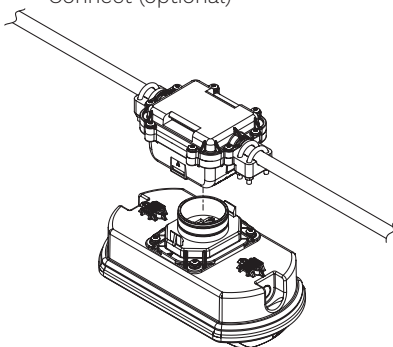
Hook mounting (optional)



Surface mounting (optional)



Connect (optional)



# Ordering Information

Example:

OPTIWAY 13W N 3100 SM C 230V

ID	Watt	LED Colour	Optic	Mounting	Body	Voltage
OPTIWAY	10W 13W	N Neutral White (4000K)	3010 3100	SM Surface mounting HM Hook mounting MS Metal straps OL Connect for OPTILINK	C Clear G Grey	230V 230V input UIV Universal voltage input

# Custom Options

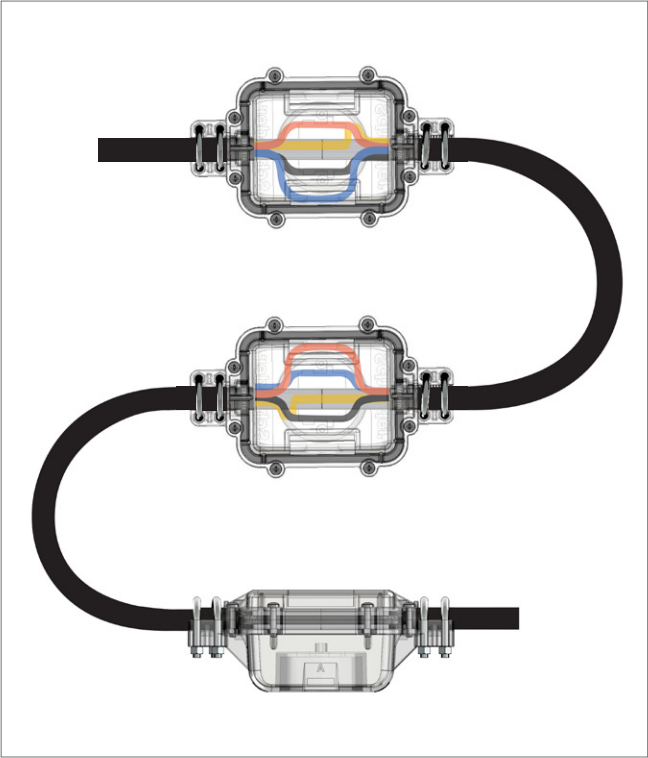
Surge protection	10kA/10kV
Body & Protector	High-impact acrylic

# OPTILINK

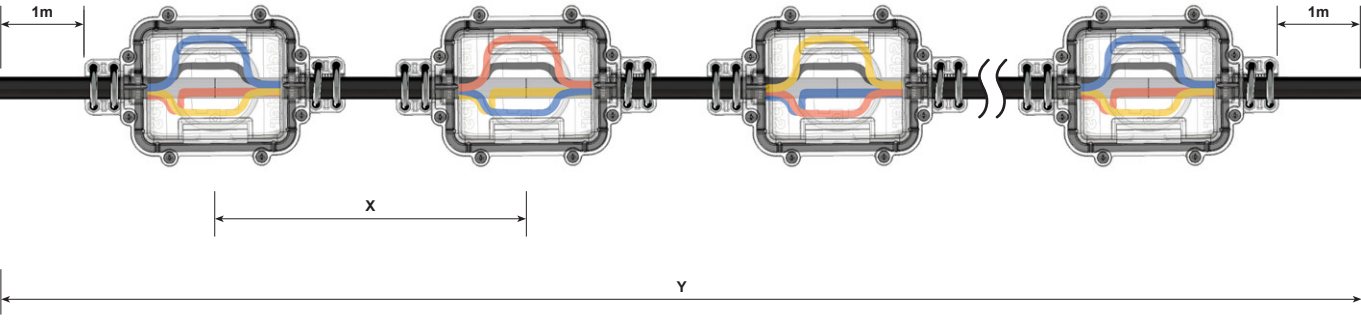
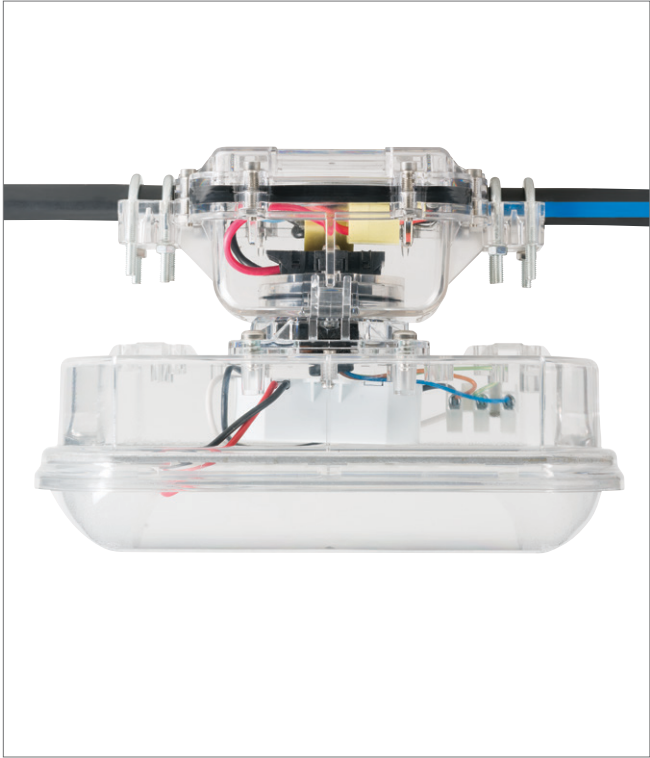
The OPTILINK system is a pre-wired plug-and-play system designed to mount the OPTIWAY Connect at predefined spacings by means of a tool-less plug-in system. Each connection box is pre-wired using armoured cable with alternating phase (blue, yellow and red) on each one of them. The OPTILINK system is supplied in 100m system lengths.

Once the OPTIWAY Connect is plugged onto the OPTILINK system, it cannot be removed, thus making it highly vandal- and theft-proof.

OPTILINK Cable Assembly



OPTILINK with OPTIWAY Connect



## Ordering Information\*

	X	Y	Number of Connection Boxes
OPTILINK 5	5m	102m	21
OPTILINK 7.5	7.5m	107m	15
OPTILINK 10	10m	102m	11

\*Excludes OPTIWAY Connect luminaire

# BEKA Schröder

Experts in lightability™

**SABS**  
ISO 9001



[www.beka-schreder.co.za](http://www.beka-schreder.co.za)

Designed and manufactured by BEKA Schröder (Pty) Ltd



**LOCALLY**  
manufactured

2023-05

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