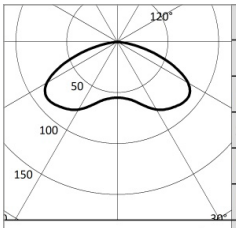
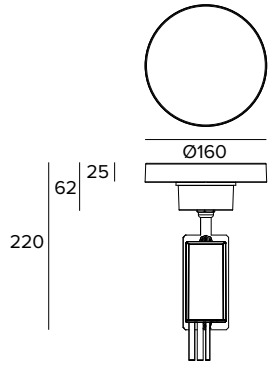
1E4017DA | MRS BO BOLLARD
Radial-emission LED bollard



4000K		H(m)	D(m)	Emax(lx)
Ra80			143°	
Fixture Power	20W	1	5.90	152
Source Flux	2774lm	2	11.81	38
Fixture Flux	978lm	3	17.71	17
Efficacy	49lm/W	4	23.61	9
TS1587 Imax=88cd/klm	Imax 245cd	5	29.51	6



The figures on the drawing are expressed in mm.

SOURCE

Chip on Board LED Ra80. Ra90 on request.
Energy efficiency class: D
Nominal power: 17W
Nominal flux: 2774lm
Colour rendering index: 80
Rf: 82
Rg: 95
CCT nominal: 4000K
SDCM: 2
Lifetime (L80/B10): >50000h tq +25°C

ILLUMINOTECHNICAL CHARACTERISTICS

A high reflectance anodised aluminium printed reflector. Transparent polycarbonate screen placed horizontally to avoid upwards flow (0 candles above horizontal axis).
Emission: 360°
Optic: REFLECTOR
Optical efficiency: 35%
Fixture flux: 978lm
Luminous efficacy: 49lm/W
Photobiological safety: Compliant with RG1 low risk group

MECHANICAL CHARACTERISTICS

Extruded aluminium body covered with cataphoresis protective treatment and coated with powder painting in Ferrite finish color. Anodized die-cast aluminium optical head.
Colour and finish: Ferrite
Dimensions: Ø 160mm
Weight: 1.24Kg
Degree of protection: IP66
Mechanical Resistance: IK10

ELECTRICAL CHARACTERISTICS

Integrated power supply for the DALI version. Casambi control system available using a dedicated accessory. Luminaire compliant with EN 60598-2-22 for power supply from a centralised emergency system CPSS (Central Power Supply System), not incorporated in the luminaire - high risk areas excluded. The default power and flux are 100% in AC and 100% in DC.
Fixture Power: 20W
Power supply: 220-240Vac 50/60Hz
Insulation Class: CLASS 2
Type of driver / Control: DALI
Driver included: YES
Class F: YES
SAFE FLICKER: PstLM=<1 and SVM=<0.4 (IEC TR 61547-1 and IEC TR 63158), to ensure a more comfortable and safe light
Ambient temperature: -25°C / +35°C

INSTALLATION

“Bayonet” fixing system for the optical head. Available with three different height poles - 371, 771 and 971mm. To be completed with a stainless steel anchoring system, available in two versions with hidden plate or surface plate for installation with dowels. On both mounting options can be applied stainless steel rods for installation in concrete.

NOTES

Uses the “Waterblock Plus” technical solution that involves resin coating the connection cables and completely resin coating the integrated driver limiting the risk of humidity reaching the fixture. Cataphoresis tratement for the optical head available on request. 110-277Vac version available on request. Commissioning of the control system via free APP; the intervention of a specialist technician can be quoted on request.

WARRANTY

5 years.

WARNING

Luminaire designed for disposal/recycling at end-of-life. Replaceable (LED only) light source by a professional. Replaceable control gear by a professional.

Due to the technological evolution of the electronic components, the data provided may be updated, and as such, confirmation must be requested during the order process.
Luminous flux and power supply have +/-10% tolerances with respect to the indicated value. tq +25°C (CIE 121).

We reserve the right to make technical changes.

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Related codes

Bollard

	Kg	H mm	Colour	Code
	0.8	371		**1E4030**
	1.6	771		**1E4031**
	2	971		**1E4032**

Extruded aluminium body covered with cataphoresis protective treatment and coated with powder painting.

Mounting System

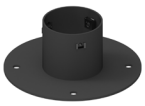
Code
1E4360

Hidden fixing plate.
AISI 316 stainless steel compatible with dowels to be inserted into holes with 8mm diameter.
0.3Kg.

Code
1E4034

Fixing rods for installation in concrete.
AISI 316 stainless steel.
H=144mm.
0.31Kg.
To install MRS BO BOLLARD with hidden fixing plate (1E4360).

Mounting System



Code
1E4035

Fixing plate with flange.
AISI 316 stainless steel compatible with dowels to be inserted into holes with 8.5mm diameter.
0.62Kg.

Code
1E3450

Fixing rods for installation in concrete.
AISI 316 stainless steel.
H=147mm.
0.36Kg.
To install MRS BO BOLLARD with fixing plate with flange (1E4035).

Accessories

Connector

Code
1E2769

Linear connection box IP66/IP68.
5 poles max. wire section 1.5mm².
Cable diameter range from 7 to 12mm.

Code
1E2494

Multiple connection box IP68.
1 IN - 3 OUT 4 poles max. wire section 2.5mm².
Cable diameter range from 6 to 12mm.

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Connector

Code
1E3184

IP68 4-way cable connector (5 pole).

Tool

Code
1E3305

Tightening wrench for the connector kit.

Control systems

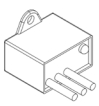
Code
1E3048

IP67 wireless control unit with DALI interface.
It generates a local DALI2 bus, enhabling a direct connection to a DALI interface LED driver.
The module can only be used in a closed system and cannot be connected to an existing DALI network.
The module is wireless controlled using a Casambi app for smartphones and tablets using Bluetooth 5.0 technology.
The devices automatically create an adaptive, robust, and reliable wireless mesh network, allowing for the easy and efficient management of a high number of fixtures.
The control unit is preset to the DALI 1CH profile, maning the device can control a single DALI driver with broadcast commands.
In addition to the DALI broadcast, other operating modes are available, such as:
- Button (normally open)
- Control unit 0/1-10V
- Control unit DALI Tunable White DT8
- Presence sensor

Code
1E4369

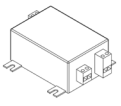
IP67 Extender for wireless control of LED driver with dimming DALI interface based on Casambi technology.
It has a DALI2 output with the capacity to control up to 40 lighting fixtures.
With the addition of a further external BUS DALI power supply it is possible to control up to 64 fixtures.
IP67 Extender is preset to the DALI broadcast profile, meaning all the luminaires connected to it are dimmable at the same level.
In addition to the DALI broadcast other operating modes are available, such as:
- EXTENDER DALI 8CH
- EXTENDER DALI Tunable White
- EXTENDER DALI 4CH
- EXTENDER DALI DT8 Tunable White

Surge protector



Code
A013B

Surge protector compatible with CLASS II lighting fixtures and electronic drivers.
Operating voltage 220-240Vac.
SPD type 2+3.
Max surge protection 10kV.
CLASS II
IP67



Code
A013D

Surge protector compatible with CLASS II lighting fixtures.
DALI, DMX, 0-10V datalines compliance.
Operating voltage 230-277Vac.
SPD type 2+3.
Max surge protection 10kV.
CLASS II
IP65

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