

# FLOODLIGHTS

## FL.. Series floodlights



Due to the body made of aluminium with low content of copper and tempered glass, FL.. Series floodlights, provided in a wide range of wattage and power, are ideally suited for ON and OFF-SHORE applications and all kinds of industries where there is a high level of corrosion, mainly for lighting wide areas.

To increase further surface protection, upon request it is possible to apply an OFF-SHORE painting cycle suitable for marine environments.

Standard floodlights are manufactured with symmetrical narrow beam reflector and symmetrical wide beam reflector upon request (ordering codes upon request).

For ease of installation and maintenance, the luminaire features an integral Ex e connection box and AISI304 stainless steel universal mounting bracket.

## TECHNICAL FEATURES

<b>Material</b>	Aluminium with low content of copper Stainless steel AISI316L (ordering codes upon request)
<b>IP rating</b>	IP66
<b>Ambient temperature range</b>	-50°C to +55°C
<b>Approvals</b>	INERIS 00ATEX0023X (standard) / TR CU (marking upon request, ordering code to be required)
<b>Marking</b>	II 2 GD Ex de IIB+H2 T3 Gb Ex tb IIIC T200°C Db IP66
<b>Gaskets</b>	Gasket made of Nitrile Rubber (NBR) on flat joint
<b>Surface treatment</b>	Painted by green colour polyurethane painting cycle RAL6003 (other colour available upon request) / Internal anticondensate painting / AISI316L version unpainted
<b>Entries</b>	N° 2 entries M25x1,5
<b>Hardware and screws</b>	AISI316L Stainless steel screws and AISI304 Stainless steel adjustable bracket
<b>Lamps</b>	Included
<b>Rated operation voltage (UE)</b>	See table
<b>Frequency</b>	See table
<b>Power factor</b>	> 0,95
<b>Accessories</b>	N° 1 brass nickel chrome plated plug + N° 1 brass nickel chrome plated cable gland PNA type c/w set of inner seals
<b>Accessories available upon request</b>	Protection guard (not to be sold separately unless as a spare part) Special brackets fo pole mounting

### Options upon request

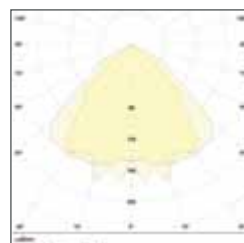
**HOT INSTANT RESTRIKE** solution available via twin-arc lamp assuring immediate hot instant restrike ignition with flux that will reach 80% of the nominal lamp flux in about 3 minutes.  
**HOT INSTANT RESTRIKE** solution also available via **INSTANT RESTRIKE BALLAST**, assuring immediate hot instant restrike ignition with 80% of the lamp nominal flux in 7 seconds.  
(for high pressure sodium version)

### Photometric light curves

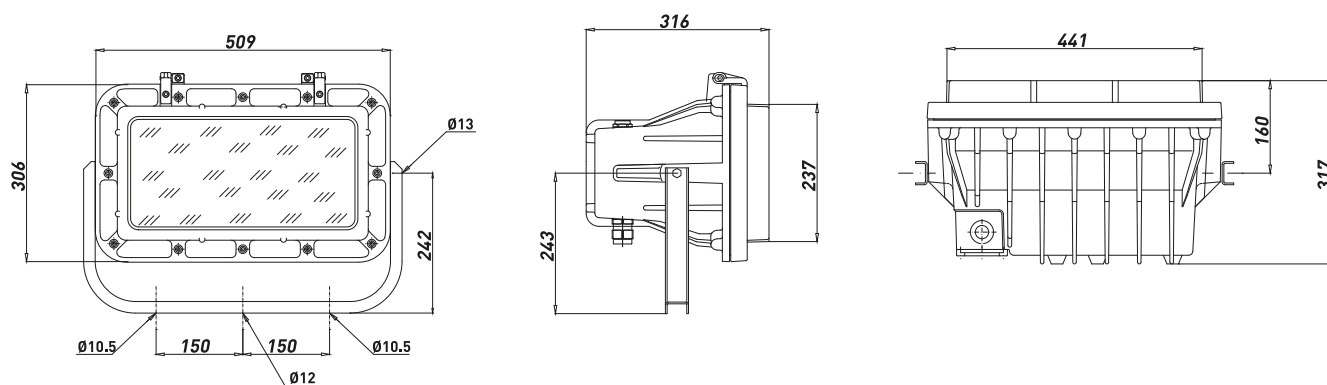
FL-SA IM HG



FL-SA IM HG wide beam



## Dimensions FL



## (FL..) Floodlights

TYPE	CODE	LAMP [W]	LAMP. TYPE	WEIGHT [kg]	VOLTAGE	FREQUENCY	AMBIENT TEMPERATURE
FL-15SA	A0101.111110	150	HPS	22.70	230V*	50HZ***	(-50°;+55°)
FL-25SA	A0101.111210	250	HPS	23.80	230V*	50HZ***	(-50°;+55°)
FL-40SA	A0101.411311	400	HPS	25.00	230V*	50HZ***	(-50°;+55°)
FL-25IM	A0102.111210	250	METAL HALIDE	23.80	230V*	50HZ***	(-50°;+55°)
FL-40IM	A0102.111314	400	METAL HALIDE	22.80	230V*	50HZ***	(-50°;+55°)
FL-25HG	A0103.111210	250	MERCURY VAPOUR	23.70	230V*	50HZ***	(-50°;+55°)
FL-40HG	A0103.111310	400	MERCURY VAPOUR	20.90	230V*	50HZ***	(-50°;+55°)
FL-14HA	A0104.111512	2X70	HALOGEN	20	24VDC	-	(-50°;+55°)
FL-14HA	A0104.111511	2X70	HALOGEN	20	48VDC	-	(-50°;+55°)
FL-50HA	A0104.111410	500	HALOGEN	19	230V**	50/60HZ	(-50°;+55°)

\* 220 V and 240 V versions available upon request

\*\* 220 V, 240 V (marking upon request)

\*\*\* 60 Hz available upon request

Below -20°C, mercury vapour and metal halid floodlight can be used, providing they are switched on 24 hours a day.

## LED LIGHTING


# FL-LED.. Series floodlights



LED FL.. floodlights have been design for street and sidewalk lighting.

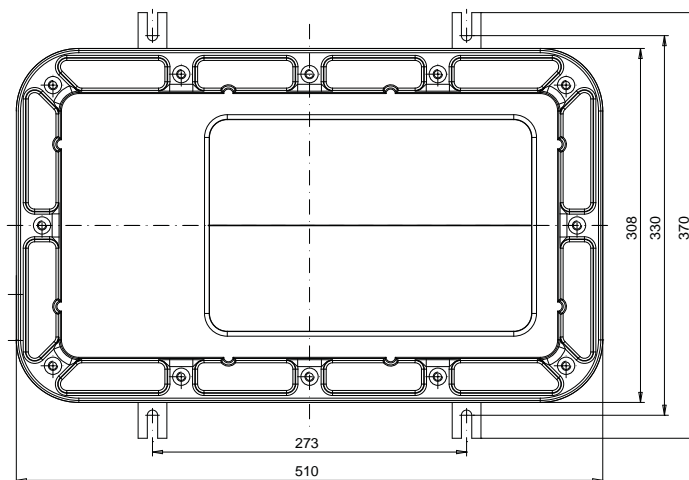
Due to the body made of aluminium with low content of copper and tempered glass, these floodlights have an excellent corrosion resistance.

## TECHNICAL FEATURES

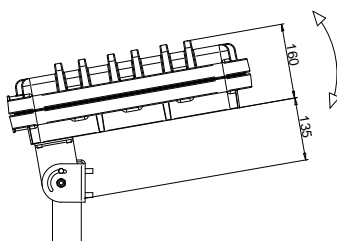
<b>Material</b>	Aluminium with low content of copper
<b>IP rating</b>	IP66
<b>Ambient temperature range</b>	-50°C to +55°C
<b>Approvals</b>	INERIS 00ATEX0023X (standard) / INERIS 01ATEX0059 (battery pack) CoC TR CU 012/2011: n° B.01067 (marking upon request, ordering code to be required)
<b>Marking</b>	Standard: II 2 GD Ex d IIB+H2 T6 Gb Ex tb IIIC T85°C Db IP66  Battery pack: II 2 GD Ex d IIC T6 Gb Ex tb IIIC T85°C Db IP66
<b>Gaskets</b>	Gasket made of Nitrile Rubber (NBR) on flat joint
<b>Entries</b>	Suitable for LOOP-IN LOOP-OUT UP TO 4mm <sup>2</sup>
<b>Hardware and screws</b>	AISI316L Stainless steel external hardware and screws
<b>Lamps</b>	Included
<b>Rated operation voltage (UE)</b>	110V/264V (standard version) 220V/240V (emergency version)
<b>Frequency</b>	50/60Hz
<b>Accessories</b>	Ceiling mounting : N° 1 brass nickel chrome plated plug + N° 1 brass nickel chrome plated cable gland PNA type c/w set of inner seals Pole mounting : N°1 brass nickel chrome plated cable gland PNA type c/w set of inner seals Adjustable mounting bracket: : N°1 brass nickel chrome plated cable gland PNA type c/w set of inner seals
<b>Operating principles</b>	FL.. floodlight for emergency service : 180 minutes; with constant flux 650 lm (other emergency duration available upon request)
<b>Photometric light curves</b>	

Dimension FL -LED - Standard version 10W/30W/60W/95W

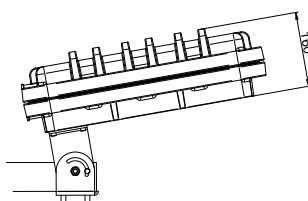
Front view/  
ceiling mounting



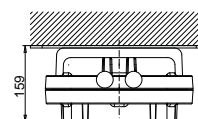
Straight  
bracket



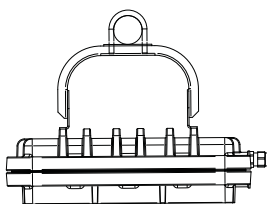
Curved bracket



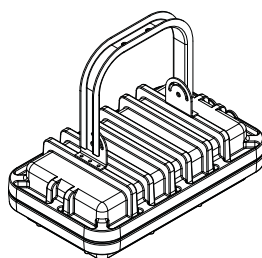
Ceiling/direct  
wall mounting



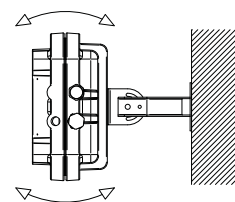
Adjustable pipe



Adjustable pendant



Adjustable wall



LED FL.. Floodlights - Standard version

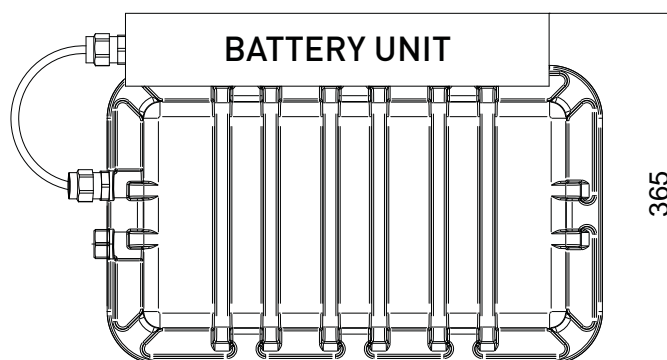
TYPE	CODE	LAMP [W]	VOLTAGE	FREQUENCY	AMBIENT TEMPERATURE
FL-LED 30	A0105.500000	95W	110/264V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.500001	60W	110/264V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.500002	30W	110/264V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.500003	10W	110/264V	50/60HZ	(-50°C;+55°C)

LED FL.. Coventional efficiency comparison table

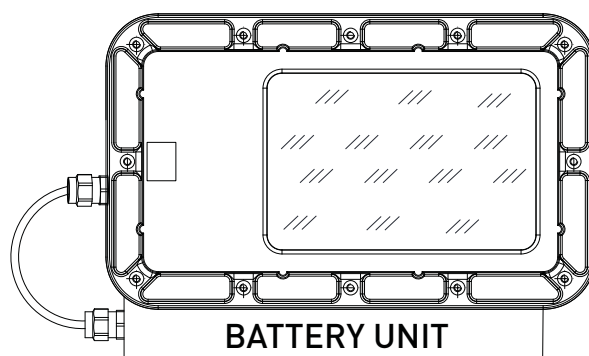
LED ->	FLUORESCENT ->	HID
FL-LED 30 W	2X18 W	50 W HPSV / 80W HPMV
FL-LED 60 W	2X36 W	100 W HPSV/ 125 HPMV
FL-LED 95 W	2X58 W	150 W HPSV / 250 HPMV

## Dimension FL..LED – Emergency version

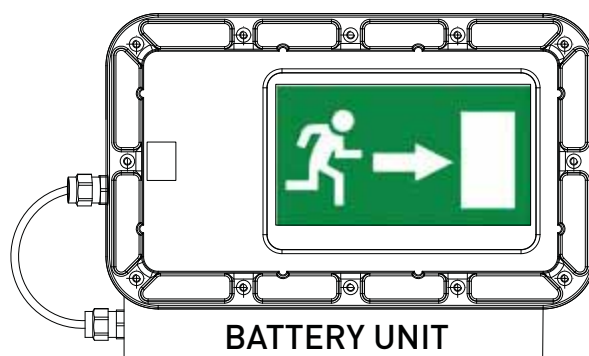
Top view



Front view



EXIT version



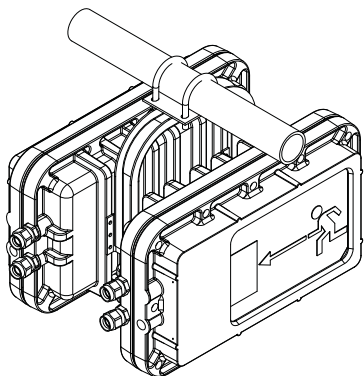
### LED FL.. Floodlights – Emergency version / 3 hours duration with 650 lm output in emergency

TYPE	CODE	LAMP [W]	VOLTAGE	FREQUENCY	AMBIENT TEMPERATURE
FL-LED 30	A0105.600000	95W	220/240V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.600001	60W	220/240V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.600002	30W	220/240V	50/60HZ	(-50°C;+55°C)
FL-LED 30	A0105.600003	10W	220/240V	50/60HZ	(-50°C;+55°C)
FL-LED 30 (DOUBLE SIDE)	A0105.700000	2X10W	220/240V	50/60HZ	(-50°C;+55°C)

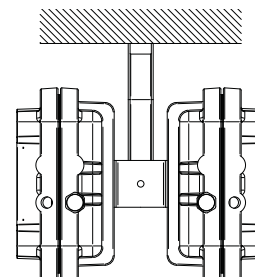
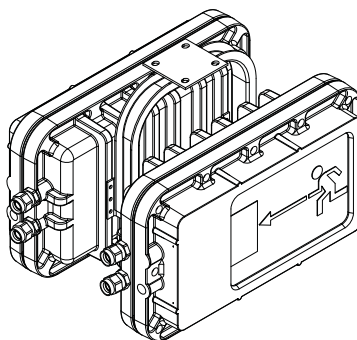
Note: 1300 lm available in emergency condition (upon request)

# FL-LED 30 (double side for emergency exit application)

Pipe/pendant mounting

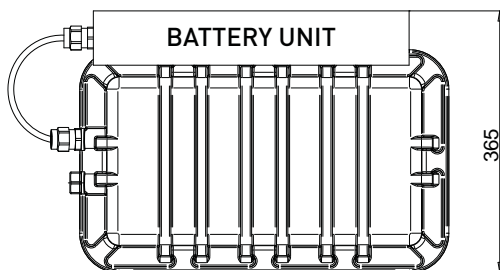


Ceiling mounting

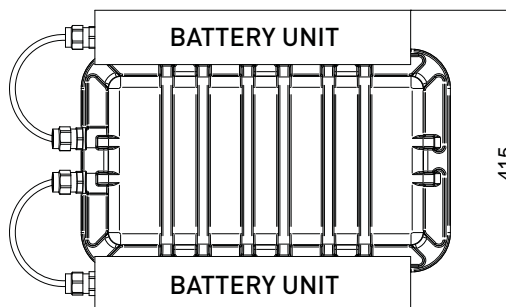


## Top view of the emergency floodlight version

650lm/EMERGENCY



1300lm/EMERGENCY



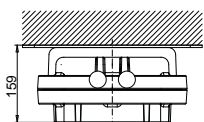
# FLOODLIGHTS

## FL-LED Series

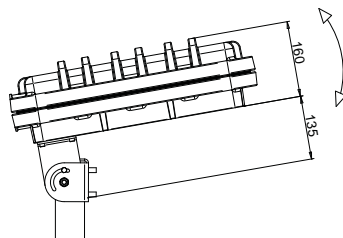
### SPARES & ACCESSORIES

CODE	TYPE
A0A01.000020	2" POLE MOUNTING KIT FOR FL-LED
A0A01.000021	180° ADJUSTABLE POLE/WALL/FRAME MOUNTING KIT /2" PIPE, FOR FL- LED
A0A01.000022	90° ADJUSTABLE POLE/WALL/FRAME MOUNTING KIT/2" FOR FL-LED
A0A01.000024	DIRECT CEILING/WALL MOUNTING KIT FOR FL-LED
A0A02.000001	KIT OF THREE SAFETY SIGN/PICTOGRAMME
A0A01.000017	STAINLESS STEEL SAFETY GUARD

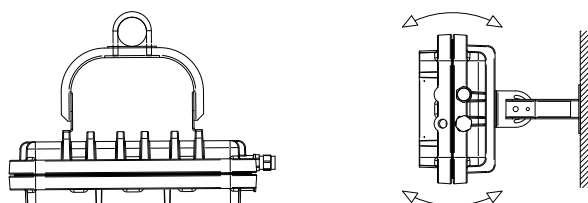
**A0A01.000024**



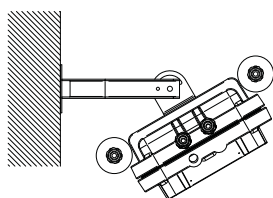
**A0A01.000020**



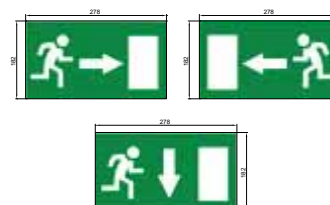
**A0A01.000022**



**A0A01.000021 with longer bracket for emergency version**
















**A0A02.000001**



# LAMPS / SPARE PARTS

## Lighting section

PRODUCT NAME	SHAPE	POWER [W]	CAP	VOLTAGE	FLUX [lm]	CODE	WHERE IT IS USED
FLUORESCENT COMPACT		45	E27	230 VAC	3000	A5004.000087	EVDE-4/FC 45 / EVCC-4/FC 45 / EVA-4/FC 45
		60	E27	230 VAC	4200	A5004.000088	EVDE-4/FC 65 / EVCC-4/FC 65 / EVA-4/FC 65
		75	E27	230 VAC	5600	A5004.000089	EVDE-5/FC 75 / EVCC-5/FC 75 / EVA-5/FC 75
HALOGEN BULB		42	E27	230 VAC	630	A5004.000083	EVDE-1/HA 42 / EVDE-2/HA 42 / EVCC-1/HA 42 / EVCC-2/HA 42 / EVA-1/HA 42 / EVA-2/HA 42
		53	E27	230 VAC	850	A5004.000084	EVCC-PR2/HA 53
		70	E27	230 VAC	1200	A5004.000085	EVDE-2/HA 70 / EVDE-PT/HA 70 / EVDE-WAR / EVCC-PR2/HA 70 / EVCC-PR3/HA 70 / EVCC-PT/HA 70 / EVCC-WAR / EVA-1/HA 70 / EVA-2/HA 70 / EVA-WAD
		105	E27	230 VAC	1980	A5004.000086	EVDE-2/HA 105 / EVCC-2/HA 105 / EVA-2/HA 105
		140	E27	230 VAC	2840	A5004.000128	EVDE-3/HA 140 / EVCC-3/HA 140 / EVA-3/HA 140
HIGH PRESSURE SODIUM BULB + IGNITER		70	E27	220/240 VAC	5900	A5004.000044	EVDE-2/NA-B 70 / EVCC-2/NA-B 70 / EVA-2/NA-B 70
HIGH PRESSURE SODIUM BULB		50	E27	220/240 VAC		A5004.000043	EVDE-2/NA-B 50 / EVCC-2/NA-B 50 / EVCC-3/NA-B 50 / EVA-2/NA-B 50 / EVA-3/NA-B 50
		70	E27	220/240 VAC	5900	A5004.000064	EVDE-3/NA-B 70 / EVCC-3/NA-B 70 / EVA-3/NA-B 70
		100	E40	220/240 VAC	10000	A5004.000062	EVDE-4/NA-B 100 / EVCC-4/NA-B 100 / EVA-4/NA-B 100
		150	E40	220/240 VAC	16100	A5004.000045	EVDE-4/NA-B 150 / EVCC-4/NA-B 150 / EVA-4/NA-B 150
		250	E40	220/240 VAC	30900	A5004.000046	EVDE-4/NA-B 250 / EVDE-5/NA-B 250
		400	E40	220/240 VAC	55400	A5004.000047	EVDE-5/NA-B 400
MERCURY VAPOUR BULB		50	E27	220/240 VAC	1770	A5004.000039	EVDE-2/HG-B 50 / EVCC-2/HG-B 50 / EVA-2/HG-B 50
		80	E27	220/240 VAC	3600	A5004.000040	EVDE-2/HG-B 80 / EVCC-2/HG-B 80 / EVA-2/HG-B 80
		125	E27	220/240 VAC	6200	A5004.000041	EVDE-3/HG-B 125 / EVCC-3/HG-B 125 / EVA-3/HG-B 125
		250	E40	220/240 VAC	12700	A5004.000042	EVDE-4/HG-B 250 / EVDE-4/HG-B 250 / FL-25HG
		400	E40	220/240 VAC	22000	A5004.000029	EVDE-5/HG-B 400
METAL HALIDE BULB		70	E27	220/240 VAC	7230	A5005.000003	EVDE-3/IM-B 70 / EVCC-3/IM-B 70 / EVA-3/IM-B 70
		100	E40	220/240 VAC	9400	A5005.000004	EVDE-4/IM-B 100 / EVCC-4/IM-B 100 / EVA-4/IM-B 100
		150	E40	220/240 VAC	15100	A5005.000005	EVDE-4/IM-B 150 / EVCC-4/IM-B 150 / EVA-4/IM-B 150
		250	E40	220/240 VAC	18000	A5004.000030	EVDE-4/IM-B 250 / EVDE-5/IM-B 250
		400	E40	220/240 VAC	32500	A5004.000032	EVDE-5/IM-B 400
LED		7	E27	230 VAC	430	A5006.000121	EVCC-PR3/LED 7
HIGH PRESSURE SODIUM TUBE		150	E40	230 VAC	18000	A5004.000068	FL-15SA
		250	E40	230 VAC	33000	A5004.000069	FL-25SA
		400	E40	230 VAC	55800	A5004.000070	FL-40SA
METAL HALIDE TUBE		250	E40	230 VAC	20 500	A5004.000053	FL-25IM
		400	E40	230 VAC	41000	A5004.000054	FL-40IM
HALOGEN		70	H3	24 VDC	1750	A5004.000061	FL-14HA
HALOGEN TUBE		500	E40	230 VAC	10250	A5004.000059	FL-50HA
FLUORESCENT TUBE		18	G13	220/240 VAC	1300	A5004.000112	EVF-P 118 / EVF-P 218 / RMS-540 / RMS-550 / RMS-560
		36	G13	220/240 VAC	3250	A5004.000113	EVF-P 236 / RMS-540 / RMS-550 / RMS-560
		58	G13	220/240 VAC	5240	A5004.000111	EVF-P 258
MERCURY VAPOUR TUBE		400	E40	230VAC	21000	A5004.000058	FL-40HG