



**Hazardous**  
Lighting Solutions LTD



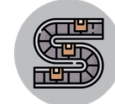
# INS230LED



*Waterproof and dustproof industrial luminaire with LED modules.*



PASSAGEWAYS



PRODUCTION LINES



WAREHOUSES



INDUSTRIAL BUILDINGS



## MECHANICAL FEATURES

**Housing:** glass-fiber reinforced polyester (GRP)

**Diffuser:** UV stabilised polycarbonate (PC), polymethyl methacrylate (PM)

**Ingress protection:** IP66 / IP67

**Protection class:** I (option II)

**Mounting:** different mountings (check: mountings)

**Accessories:** mounting accessories

## ELECTRICAL FEATURES

**Connection terminals:** 2.5 mm<sup>2</sup>, 4.0 mm<sup>2</sup> (optional)

**Power supply:** 35E: 220-240V, 50-60Hz / 220-240V, 0Hz

34E: 220-240V, 50-60Hz

**Source of light:** certified LED modules

**Power factor:** >0.95

**Cable inlets:** Ø20 (wire 6-13 mm)  
Ø25 (option, wire 9-17 mm)

**Overvoltage protection:** 1 kV (L-N)  
2 kV (L-PE)

## WORK PARAMETERS

**Ambient temperature:** -25°C to +50°C (check: types comparison)

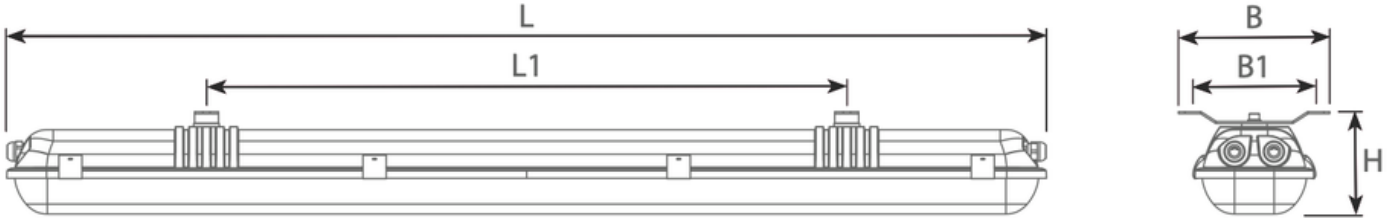
**Lifetime:** 70,000h (L80 B10)  
100,000h (L70 B10)

## PHOTOMETRICAL PARAMETERS

**CRI:** >80

**Colour temperature:** 4000K, 5000K (option), 6500K (option)

## DIMENSIONS



Type	L [mm]	L1 [mm]	B [mm]	B1 [mm]	H [mm]	Weight [kg]
INS230LED-0600	700	450	190	160	129	~3.2
INS230LED-1200	1300	800	190	160	129	~5.0

## TYPE COMPARISONS

### STANDARD VERSIONS

Type of the Lighting	Luminous Flux [lm]	Power Consumption [W]	Efficiency [lm/W]	Ambient Temperature [°C]
INS230LED-0600-J2-1	2,706	18.2	149	-25 to 50
INS230LED-0600-J2-3	3,770	26.3	143	-25 to 50
INS230LED-1200-J4-1	5,413	35.3	153	-25 to 50
INS230LED-1200-J4-3	7,540	48.5	155	-25 to 50
INS230LED-1200-B4-1	10,825	68.1	159	-25 to 45

### VERSIONS WITH ENCAPSULATED LED MODULES - C4

Type of the Lighting	Luminous Flux [lm]	Power Consumption [W]	Efficiency [lm/W]	Ambient Temperature [°C]
INS230LED-0600-J2-1	2,490	18.2	137	-25 to 50
INS230LED-0600-J2-3	3,469	26.3	132	-25 to 50
INS230LED-1200-J4-1	4,980	35.3	141	-25 to 50
INS230LED-1200-J4-3	6,937	48.5	143	-25 to 50
INS230LED-1200-B4-1	9,959	68.1	146	-25 to 45


## MAXIMUM NUMBER OF FIXTURES CONNECTED IN LINE

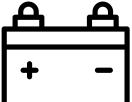
MAXIMUM NUMBER OF LINE CONNECTED LUMINAIRES DEPENDING ON THE USED CIRCUIT BREAKERS

Luminaire	B16	C16
INS230LED	16	26

## EMERGENCY VERSIONS

 3H ⚡ 34E **EMERGENCY POWER MODULE: 3H EMERGENCY POWER MODULE**

 3H ⚡ 34E **EMERGENCY POWER MODULE: 3H EMERGENCY POWER MODULE. WORKS IN TEMP. RANGE -20°C\* TO +45°C**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITHOUT SWITCHING MODULE**

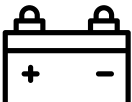
 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH TM TECHNOLOGIE TM-AM SWITCHING MODULE**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH CEAG V-CG-S 4-400W SWITCHING MODULE**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH RP TECHNIK MU05 SWITCHING MODULE**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH ES SYSTEM MSU 35 SWITCHING MODULE**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH HYBRYD MAPS-01 SWITCHING MODULE**

 ⚡ 35E **CENTRAL BATTERY: VERSION ADAPTED TO BE POWERED FROM CENTRAL BATTERY WITH MICHAŁOWSCY LMP-1 SWITCHING MODULE**

## EMERGENCY TYPE COMPARISON

Type	34E Version A3 [lm]	35E Version ZB [lm]	34E Version A3-C4 [lm]	35E Version ZB-C4 [lm]
INS230LED-0600-J2-1	678	2706	624	2490
INS230LED-0600-J2-3	647	3770	595	3469
INS230LED-1200-J4-1	873	5413	803	4980
INS230LED-1200-J4-3	833	7540	766	6937
INS230LED-1200-B4-1	874	10825	804	9959

## OPTIONAL VERSIONS



**DALI-2 DRIVER:** INTEGRATED POWER SUPPLY UNIT WITH DALI-2 INTERFACE.

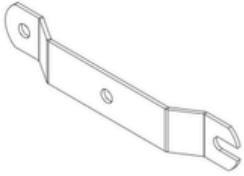
## ADDITIONAL PICTOGRAMS



The light fitting can be equipped with additional self-adhesive pictogram.

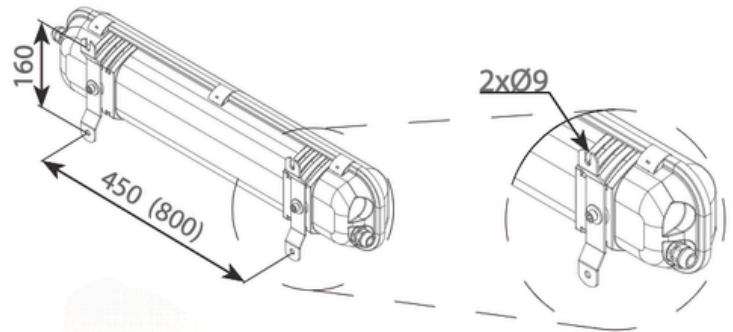


## MOUNTINGS



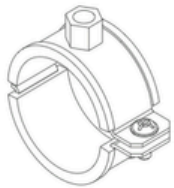
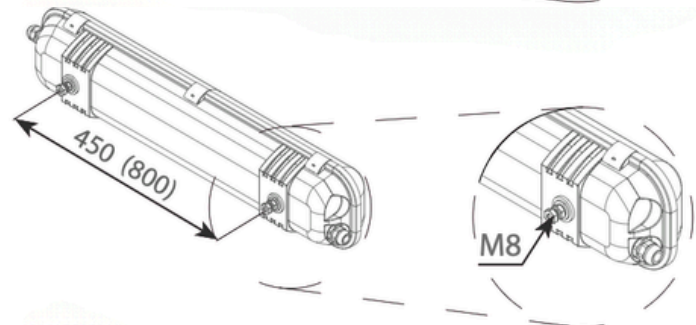
### standard AMO1

standard mounting bracket  
made of 1.5mm thick steel,  
mounting hole spacing  
160mm



### BK

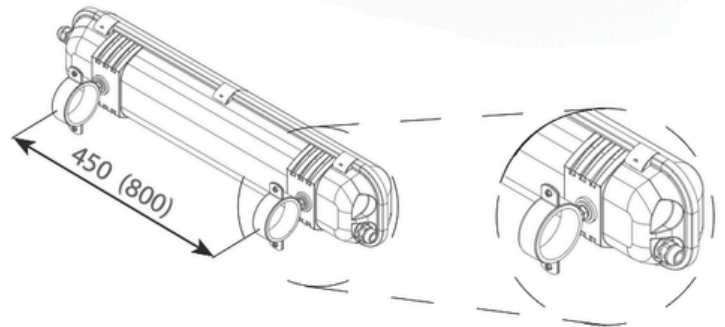
standard bolt kit made to  
install the light fitting on the  
thin surfaces or the cable trays



### AMO3

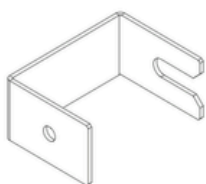
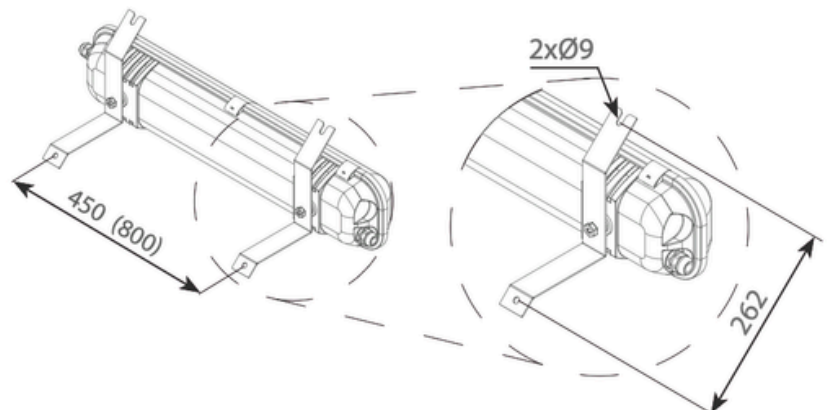
stainless steel pipe clamp:  
AMO3A: 26-30mm,  
AMO3B: 31-36mm,  
AMO3C: 59-64mm,  
AMO3D: 47-52mm,  
AMO3E: 41-46mm

*Please specify while ordering*



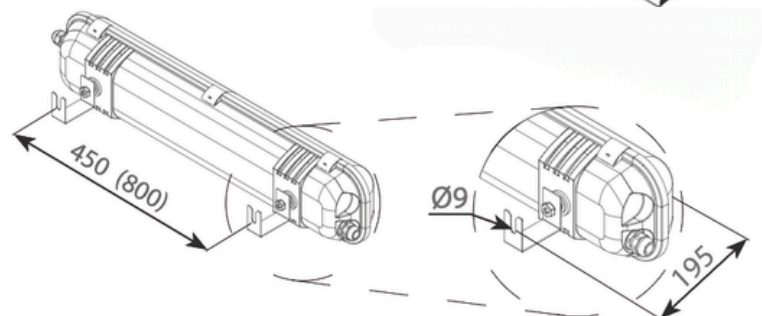
### AMO4

bracket for installation at 45°



### AMO5

68mm distance bracket



## PHOTOMETRY

