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L u m i n a i r e s  
L A N D A P P L I C A T I O N



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**REMONTOWA LIGHTING TECHNOLOGIES SA**  
(formerly Polam-Rem)

We are one of the leading European manufacturers of lighting fixtures intended for explosion hazard zones, chemically aggressive environments, heavy industry and marine market fixtures.

For over 30 years, we have been constantly developing, passionately designing and developing products that will perform well in the toughest conditions.

We belong to the world-famous capital group Remontowa Holding S.A.

Our team of specialists will guide you through the entire process, starting from lighting design with the selection of appropriate fixtures, through optimization of lighting costs, and ending with after-sales support.

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# LAND APPLICATION luminaires

## EXPLOSION PROOF LUMINAIRES



EXP 83 MLED  
113 EX  
EXP 03 MLED  
EXP 03 LED  
EXP 05 MLED

EXP 39 MLED  
EXP 19 MLED  
EXP 17 MLED  
JUNCTION BOX  
SWITCH EX

## INDUSTRIAL LUMINAIRES



TLP 44 MLED  
TLP 44 LED  
TLP 02 MLED  
TLP 39 MLED

PTE 40 MLED  
TLP 51 MLED  
SLP 90 MLED  
CLP 10

## TUNNEL LUMINAIRES | Investment Product



PB 21 MLED  
HLP 990  
HLP 900

HLP 910-2  
ZODE



explosion proof

# EXPLOSION PROOF

# EXP83 MLED

II 2G Ex db eb mb IIC T4 Gb  
II 2D Ex tb IIIC T60°C lub/or T65°C IP66/IP67 Db

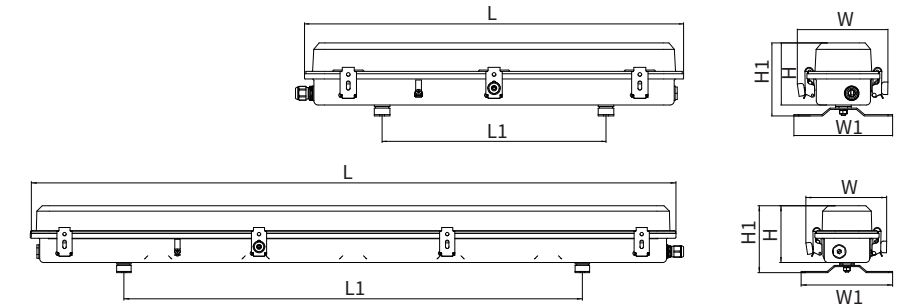


## ZONES 1,21; 2,22



### DIMENSIONS [mm]

Type	L	L1	W	W1	H	H1
EXP 83-MLED220	728	430	174	190	119	140
EXP 83-MLED240	1336	950	167	190	119	140



## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. **Hazardous zones: 1,21,2,22**

Luminaire equipped with diffuser (D) mounted on LED panel for light pattern shaping and reducing glare. Recommended stainless steel housing for outdoor purposes.

### TECHNICAL DATA

Type of housing:	gas: Ex db, eb, mb	dust: Ex tb
Explosion group:	gas: IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1*	
Max surface temperature:	60°C lub 65°C	
Protection level:	gas: Gb	dust: Db
Protection degree:	IP66/67	
Ambient temperature:	from -35°C to +40°C**	

\*\*ambient temp. for emergency version from 0°C to 40°C

	*Max. surface temp.
EXP 83-MLED220/125	60°C
EXP 83-MLED240/150	65°C

### ELECTRIC UNIT

Cable gland:	2 x M20, 2 x blanking plug*
Cable diameter:	ø 7-13 mm
Terminal block:	2 x /3x4 mm <sup>2</sup> /
Ending or through wiring.	

\* standard version. Other options on request

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
EXP 83-MLED220/125	25 W	2691 lm	4,9 kg
EXP 83-MLED240/150	50 W	4994 lm	7,5 kg

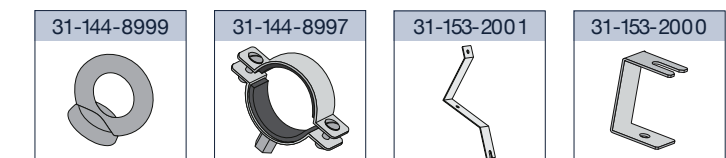
### CONSTRUCTION

Housing:	zinc coated steel, powder painted
Diffuser:	UV stabilized, strengthened polycarbonate **
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted:
Colour temp.:	4000K*
Power supply:	110-254V AC 50/60 Hz 220-250V DC

\* Other colours on request  
\*\* Chemical resistance diagram available on manufacturer's website on section „Designers area“

### ADDITIONAL EQUIPMENT

Only for versions with galvanized sheet metal housing



<b>31-144-8999</b>	eyelet sling (set 2 pcs)
<b>31-144-8997</b>	3/2" stainless pole bracket (set 2 pcs)
<b>31-153-2001</b>	slanting bracket (2 pcs set)
<b>31-153-2000</b>	angular bracket (2pcs set)

### TECHNICAL DATA



### APPROVALS



\* CNBOP - central battery only



EXPLOSION PROOF

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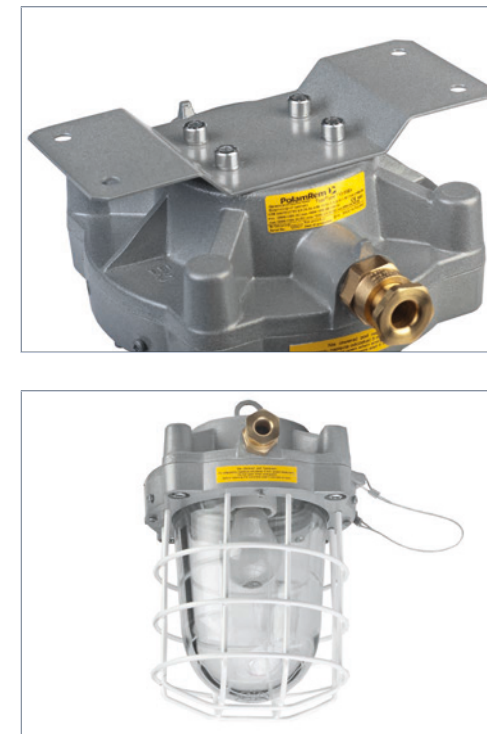
# EXPLOSION PROOF

# 113 EX

**Ex** II 2G Ex db IIB T4 Gb  
II 2D Ex tb IIIC T135°C IP66 Db

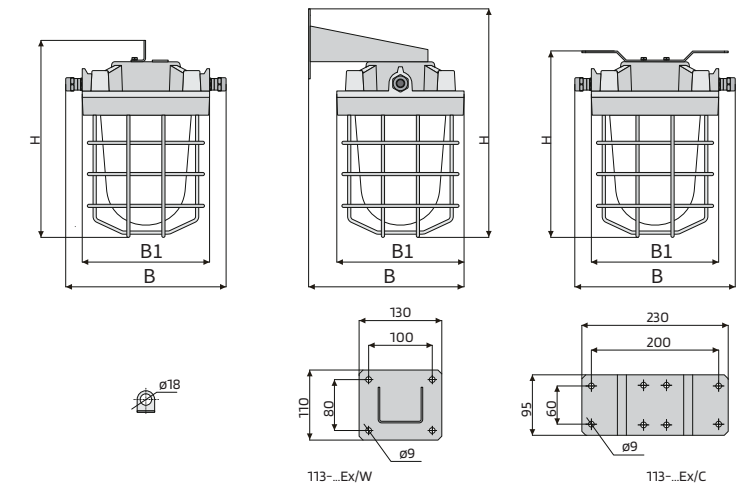


ZONES 1,21; 2,22



DIMENSIONS [mm]

Type	B	B1	H
113-...Ex	252	201	310
113-...Ex/C	252	201	310
113-...Ex/W	245	201	360



TYPE	WATTAGE	LAMP BASE	WEIGHT
113-.. Ex	12,5 W 230 AC 50-60Hz	E27	5,8 kg

## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. **Hazardous zones: 1,21; 2,22.**

## TECHNICAL DATA

Type of housing:	gas: Ex db	I dust: Ex tb
Explosion group:	gas: IIB, IIA	I dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Max surface temperature:	135°C	
Protection level:	gas: Gb	I dust: Db
Protection degree:	IP 66	
Ambient temperature:	from -20°C to +40°C	

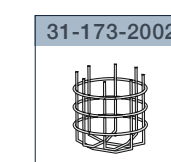
## ELECTRIC UNIT

Cable gland:	1 x M20 (113-03) 2 x M20 (113-04)
Cable diameter:	ø 8-13 mm
Terminal block:	3x4 mm <sup>2</sup> 113-03 - ending wiring 113-04 - through wiring

## CONSTRUCTION

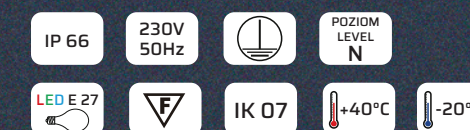
Housing:	aluminium cast, powder painted
Diffuser:	borosilicate glass

## ADDITIONAL EQUIPMENT



31-173-2002 | steel wire guard

## TECHNICAL DATA



## APPROVALS



# EXPLOSION PROOF

# EXP03 MLED

II 3G Ex ec IIC T4 Gc  
II 2D Ex tb IIIC T70°C IP 66 /67 Db

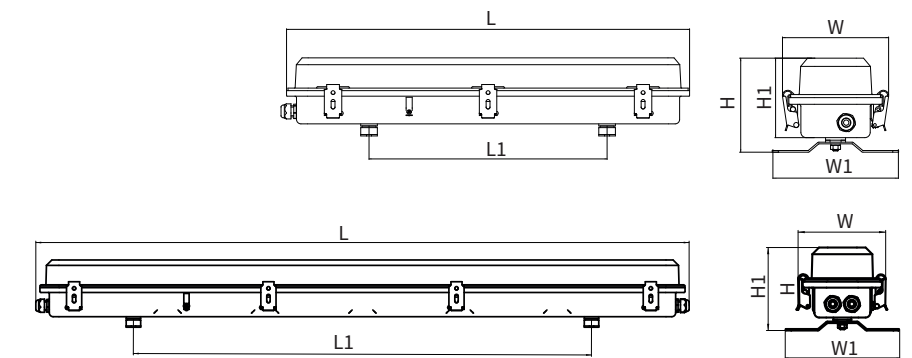


ZONES 2,21,22



DIMENSIONS [mm]

Type	L	L1	W	W1	H	H1
EXP 03-MLED220	728	430	159	190	119	140
EXP 03-MLED240	1336	950	147	190	119	140



## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. **Hazardous zones: 2,21,22**

For areas fully exposed to the weather conditions use dedicated stainless steel version or with WN brackets.

### TECHNICAL DATA

Type of housing:	gas: Ex ec	I dust: Ex tc
Explosion group:	gas: IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Max surface temperature:	70°C	
Protection level:	gas: Gc	dust: Db
Protection degree:	IP66/67	
Ambient temperature:	from -20°C to +50°C***	

\*\*\*ambient temp. for emergency version from 0°C to 40°C

### ELECTRIC UNIT

Cable gland:	2 x M25, 2 x blanking plug*
Cable diameter:	ø 7-17 mm
Terminal block:	2 x /3x4 mm²/
Ending or through wiring.	

\*standard version. Other options on request.

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
EXP 03-MLED220/211	27 W	3290 W	3,3 kg
EXP 03-MLED240/411	45 W	6492 W	5,7 kg
EXP 03-MLED240/417**	70 W	8440 W	5,7 kg

### CONSTRUCTION

Housing:	zinc coated steel, powder painted
Diffuser:	UV stabilized and strengthened polycarbonate *
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted:
Power supply:	110-254V AC 50/60 Hz 220-250V DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

\*\* 70 W version only for zone 2,22 without ATEX certificate

### ADDITIONAL EQUIPMENT

Only for zinc coated steel version



<b>31-144-8999</b>	eyelet sling (set 2 pcs)
<b>31-144-8997</b>	3/2" stainless pole bracket (set 2 pcs)
<b>31-153-2001</b>	slanting bracket (2 pcs set)
<b>31-153-2000</b>	angular bracket (2 pcs set)

### TECHNICAL DATA



### APPROVALS



EXPLOSION PROOF

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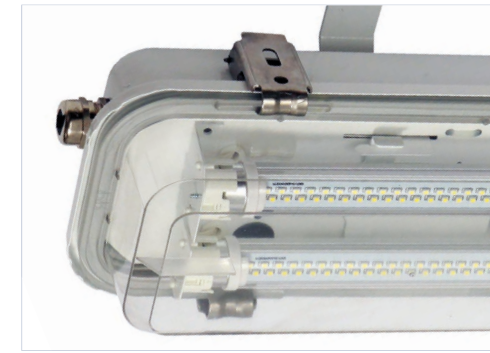
# EXPLOSION PROOF

# EXP03 LED

 II 3G Ex ec IIC T4 Gc  
 II 3D Ex tc IIIC T65°C IP 66 /67 Dc

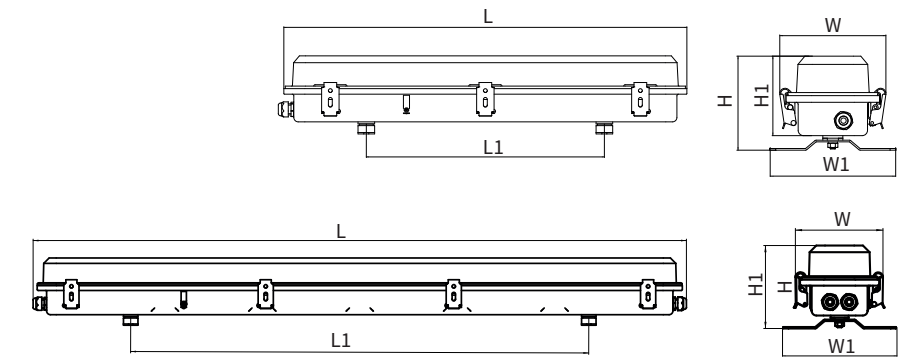


ZONES 2,22



DIMENSIONS [mm]

Type	L	L1	W	W1	H	H1
EXP 03-220/LED	728	430	159	190	119	140
EXP 03-240/LED	1336	950	147	190	119	140



## APPLICATION

Dustproof and waterproof luminaire for the single sided LED tubes with G13 lamp base. The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. **Hazardous zones: 2,22**

For areas fully exposed to the weather conditions use dedicated stainless steel version or with WN bracket.

### TECHNICAL DATA

Protection class: I  
 Protection degree: IP 66/67  
 Power factor: > 0,95  
 Ambient temperature: from -35°C to +40°C\*\*

\*\*dependent on used LED tubes

### ELECTRIC UNIT

Cable gland: 2 x M20, 1 x blanking plug  
 Cable diameter: ø 6-12 mm  
 Terminal block: 2 x /3x4 mm<sup>2</sup>/

TYPE	LED TUBES LENGTH	LAMP BASE	WEIGHT (without led tubes)
EXP 03-220/LED	600	G13	3,2 kg
EXP 03-240/LED	1200	G13	4,9 kg

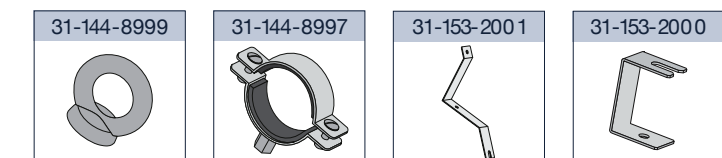
### CONSTRUCTION

Housing: zinc coated steel, powder painted  
 Diffuser: UV stabilized and strengthened polycarbonate \*  
 Diffuser clips: stainless steel  
 Mounting plate: zinc coated steel, powder painted

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

### ADDITIONAL EQUIPMENT

Only for zinc coated steel version

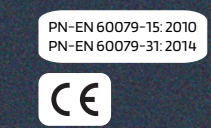


**31-144-8999** eyelet sling (set 2 pcs)  
**31-144-8997** 3/2" stainless pole bracket (set 2 pcs)  
**31-153-2001** slanting bracket (2 pcs set)  
**31-153-2000** angular bracket (2 pcs set)

### TECHNICAL DATA



### APPROVALS



EXPLOSION PROOF

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**EXPLOSION  
PROOF**

**EXP05  
MLED**



II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC T65°C IP 66 Dc

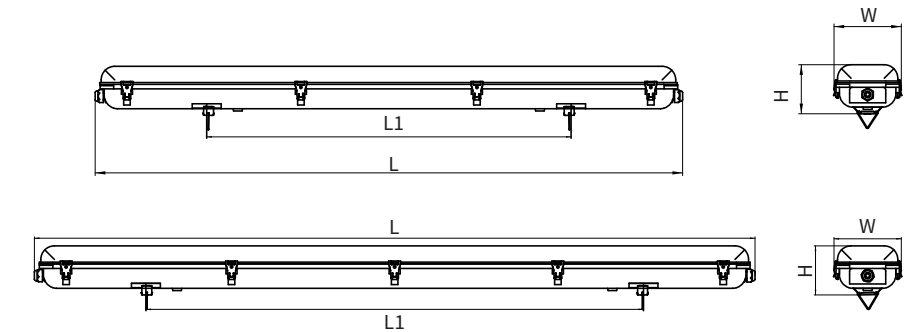


**ZONES 2,22**



**DIMENSIONS [mm]**

Type	L	L1	W	H
EXP 05-MLED220	682	395	149	109
EXP 05-MLED240	1301	807	149	109
EXP 05-MLED260	1596	1102	149	109



**APPLICATION**

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. **Hazardous zones: 2,22**

Luminaire for outdoor use limited to space partially protected against the weather - ie .: sheds, roofing, etc.

**TECHNICAL DATA**

Type of housing:	gas: Ex ec	dust: Ex tc
Explosion group:	gas: IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Protection class:	I	
Protection level:	gas: Gc	dust: Dc
Protection degree:	IP 66, IK 08*	
Ambient temperature:	from -25°C to +50°C**	

\*IK 03 for luminaires with PMMA diffuser  
\*\*ambient temp. for emergency version from 0°C to 40°C

**ELECTRIC UNIT**

Cable gland:	2 x M20, 2 x blanking plug
Cable diameter:	ø 6-12 mm
Terminal block:	2 x /3x6 mm <sup>2</sup> /
Ending or through wiring.	

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
EXP 05-MLED220/211	21 W	3714 lm	2,4 kg
EXP 05-MLED240/411	44 W	7179 lm	4,3 kg
EXP 05-MLED240/66	73 W	12394 lm	5,1 kg

**CONSTRUCTION**

Housing:	poliester fibreglass reinforced
Diffuser:	semi-opal UV stabilized polycarbonate *
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted
Power supply:	220-240V AC/DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

**TECHNICAL DATA**



**APPROVALS**



**EXPLOSION PROOF**

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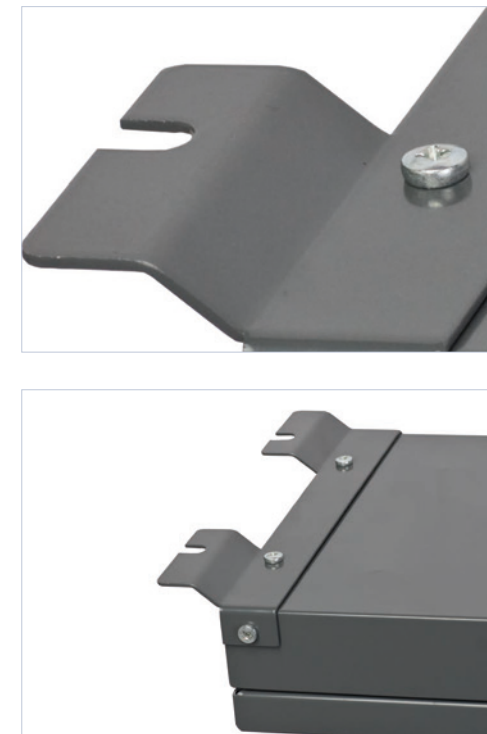
# EXPLOSION PROOF

II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC T100°C IP 66 Dc

# EXP39 MLED

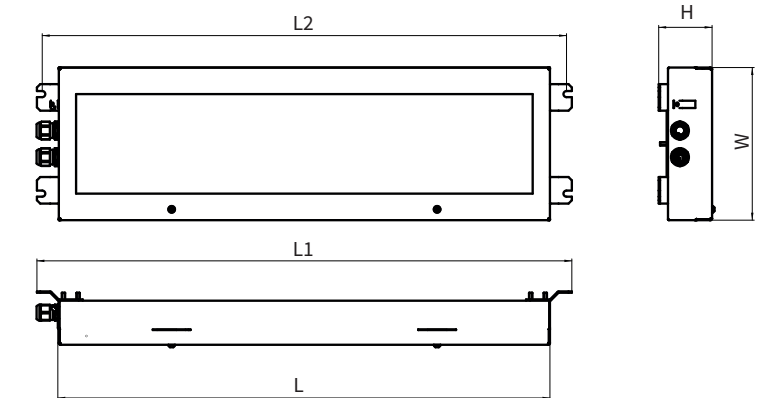


## ZONES 2,22



## DIMENSIONS [mm]

Type	L	L1	L2	W	H
EXP 39 MLED210	462	528	508	230	80
EXP 39 MLED220	742	806	790	230	80
EXP 39 MLED230	1030	1096	1080	230	80
EXP 39 MLED240	1314	1375	1364	230	80



## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. The luminaire suitable for painting shops.

Hazardous zones: 2,22

### TECHNICAL DATA

Type of housing:	gaz: Ex ec	dust: Ex tc
Explosion group:	gaz: IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Max surface temperature:	100°C	
Protection level:	gas: Gc	dust: Dc
Protection degree:	IP 66	
Ambient temperature:	from -25°C to +45°C**	

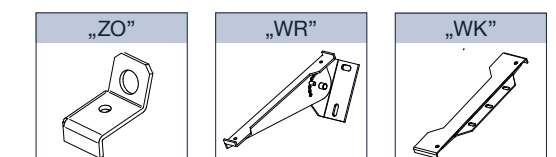
\*\*ambient temp. for emergency version from 0°C to 40°C

### ELECTRIC UNIT

Cable gland:	2 x M20
Cable diameter:	ø 8-13 mm
Terminal block:	3x4 mm <sup>2</sup>
Ending or through wiring	

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
EXP 39-MLED210/7	9 W	1050 lm	4,0 kg
EXP 39-MLED210/11	11 W	1700 lm	4,0 kg
EXP 39-MLED210/16	19 W	2400 lm	4,0 kg
EXP 39-MLED220/22	25 W	2700 lm	7,8 kg
EXP 39-MLED220/29	32 W	3800 lm	7,8 kg
EXP 39-MLED220/33	39 W	4800 lm	7,8 kg
EXP 39-MLED230/44	47 W	5500 lm	9,2 kg
EXP 39-MLED230/49	52 W	7300 lm	9,2 kg
EXP 39-MLED240/58	62 W	8400 lm	13,0 kg
EXP 39-MLED240/64	72 W	9000 lm	13,0 kg

### ADDITIONAL EQUIPMENT



Eyelet sling „ZO”  
Flexible bracket „WR”  
Cable tray „WK”

for EXP 39 MLED  
for EXP 39 MLED  
for EXP 39 MLED

### CONSTRUCTION

Housing:	zinc coated steel, powder painted
Diffuser:	hardened glass or PC*
Mounting plate:	zinc coated steel, powder painted
Power supply:	220-240V AC/DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area”

### TECHNICAL DATA



### APPROVALS



EXPLOSION PROOF

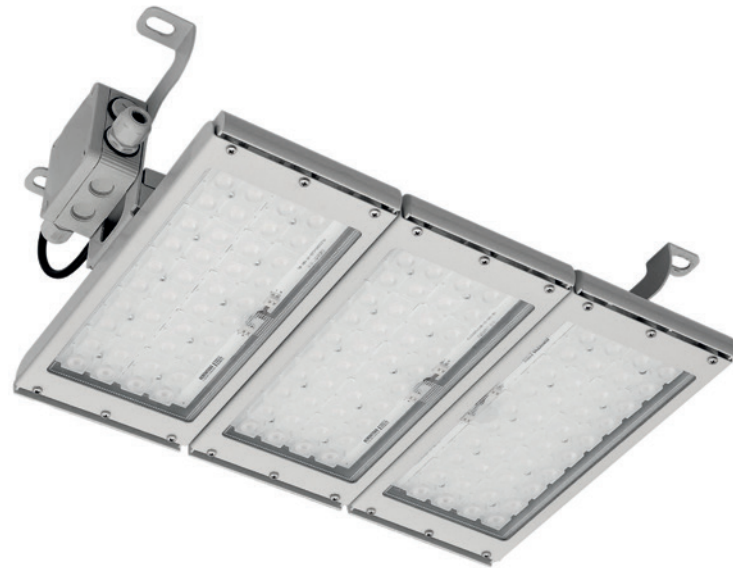
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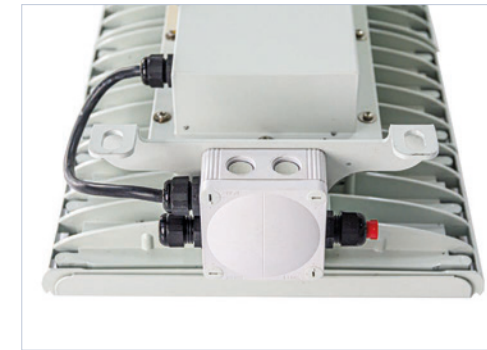
**EXPLOSION  
PROOF**

# EXP19 MLED

 II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC T100°C IP 66 Dc

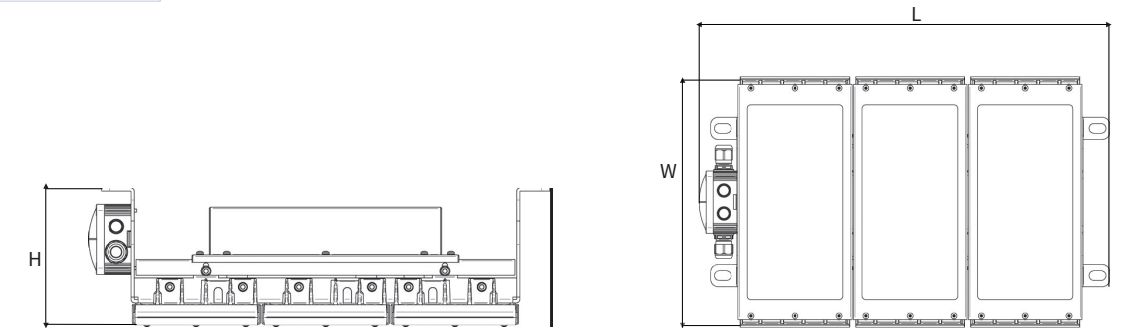


ZONES 2,22



DIMENSIONS [mm]

Type	Number of chambers	L	H	W
EXP 19-MLED2	2	402	167	341
EXP 19-MLED3	3	558	167	341
EXP 19-MLED4	4	716	167	341



## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. The luminaire suitable for a painting shops. **Hazardous zones: 2,22**  
Luminaire equipped with lens mounted on LED panel for light pattern shaping and reducing glare.  
Luminaire is available in 2, 3 or 4 modules version.

### TECHNICAL DATA

Type of housing:	gas: Ex ec	dust: Ex tc
Explosion group:	gas: IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Max surface temperature:	100°C	
Protection level:	gas: Gc	dust: Dc
Protection degree:	IP 66	
Ambient temperature:	from -30°C to +45°C	
Power supply:	220-240V AC/DC	

### ELECTRIC UNIT

Cable gland:	2 x M20
Cable diameter:	ø 6-12 mm
Terminal block:	2 x /3x4 mm <sup>2</sup> /
Ending or through wiring	

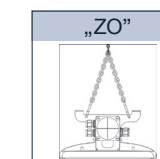
TYPE	WATTAGE	LUMEN OUTPUT	NUMBER OF CHAMBERS	WEIGHT
EXP 19-MLED2/100	100 W	16490 lm	2	8 kg
EXP 19-MLED3/150	150 W	26490 lm	3	11 kg
EXP 19-MLED4/200	200 W	32410 lm	4	15 kg

### CONSTRUCTION

Housing:	diecast aluminium, powder painted
Diffuser:	hardened glass
Bracket:	steel, powder painted

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

### ADDITIONAL EQUIPMENT

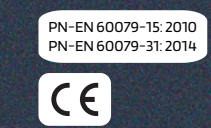


**31-515-9001** | chain suspension  
L=600 mm (2 pcs set)

### TECHNICAL DATA



### APPROVALS



EXPLOSION PROOF

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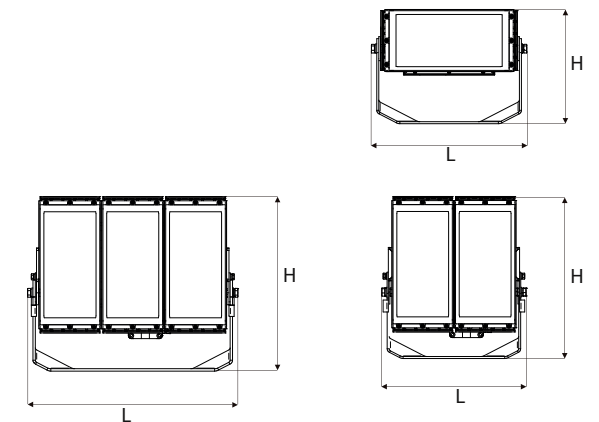
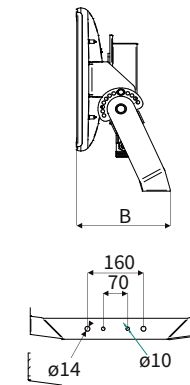
**EXPLOSION  
PROOF**

# EXP17 MLED

**Ex** II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC T100°C IP 66 Dc



ZONES 2,22



DIMENSIONS [mm]

Type	Number of chambers	L	B	H
EXP 17-MLED1	1	382	141	155
EXP 17-MLED2	2	356	184	403
EXP 17-MLED3	3	515	205	436

## APPLICATION

The luminaire is designed for the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air. The luminaire suitable for a painting shops. **Hazardous zones: 2,22**

Luminaire equipped with lens mounted on LED panel for light pattern shaping and reducing glare.

Luminaire is available in 1, 2 or 3 modules version.

## TECHNICAL DATA

Type of housing:	gas: Ex ec	dust: Ex tc
Explosion group: gas:	IIC, IIB, IIA	dust: IIIC, IIIB, IIIA
Temperature class:	T4, T3, T2, T1	
Max surface temperature:	100°C	
Protection level:	gas: Gc	dust: Dc
Protection degree:	IP 66	
Ambient temperature:	from -30°C to +45°C**	
Power supply:	220-240V AC/DC	

## ELECTRIC UNIT

Cable gland:	1 x M20
Cable diameter:	ø 6-12 mm
Terminal block:	2 x /3x4 mm <sup>2</sup> /
Ending or through wiring	

## CONSTRUCTION

Housing:	diecast aluminium, powder painted
Diffuser:	hardened glass
Bracket:	steel, powder painted

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

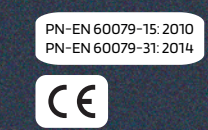


Adjustable bracket. 2- and 3-modules version

## TECHNICAL DATA



## APPROVALS




EXPLOSION PROOF

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**EXPLOSION  
PROOF**

 II 2G Ex e IIC T6  
II 2D tD A21 IP66 T 80°C

# JUNCTION BOX



ZONES 1,21; 2,22

## APPLICATION

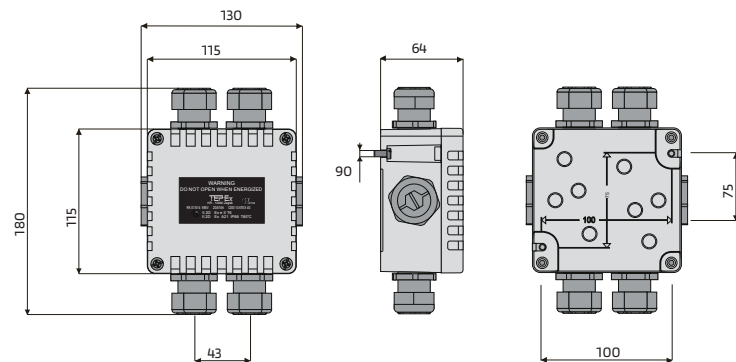
The junction box for transmission and distribution of electrical energy, used in industrial facilities with explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air.

Hazardous zones: 1,21; 2,22.


## TECHNICAL DATA

Protection degree:	IP 66
Ambient temperature:	from -20°C to +50°C (16A) from -20°C to +40°C (20A)
Housing:	glass fibre reinforced polyamide
Cable entry:	4 x M25, 2 x blanking plug
Cable diameter:	Ø 6-15 mm
Terminal block:	max 5x4 mm <sup>2</sup>
Mounting:	see drawing

## DIMENSIONS [mm]



**EXPLOSION  
PROOF**

 II 2G Ex e IIC T6  
II 2D tD A21 IP66 T 80°C

# SWITCH EX



ZONES 1,21; 2,22

## APPLICATION

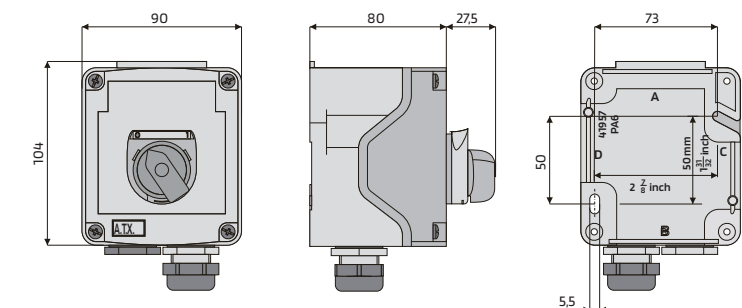
Switch for switching lighting installations in industrial facilities with explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air.

Hazardous zones: 1,21; 2,22.

## TECHNICAL DATA

Protection degree:	IP 66
Ambient temperature:	from -20°C to +40°C
Housing:	polyamide
Cable entry:	1xM20 /2-nd cable gland for request/
Cable diameter:	Ø 6,5-14,5 mm
Terminal block:	max 2,5 mm <sup>2</sup>
Insulation rated voltage:	690V
Rated voltage:	250V AC
Rated current:	16A/ +40°C, 11A/ +60°C
Mounting:	see drawing

## DIMENSIONS [mm]



TEPEx





EXPLOSION PROOF

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**EXPLOSION PROOF** | available configurations

**EXP83**  
MLED



WATTAGE	CRI AND COLOUR TEMP.	HOUSING	CABLE ENTRY	CABLE GLANDS	FIXING TYPE	OPTIONS
220   25W	840 CRI 80 4000 K	- zinc coated steel	P	10 M20 polyamide	W fixed bracket	A3/AT battery backup system 3h with autotest
240   50W	830 CRI 80 3000 K	S stainless steel 304*	PA	11 M20 brass	WN fixed bracket to the body with rivet nuts	
	857 CRI 80 5700 K	S316 stainless steel 316L*	K	13 M20 brass screen cable	H bolt kit	
			KA	20 M25 polyamide	N rivet nuts	
			PAK	21 M25 brass		
				23 M25 brass screen cable		

**113**  
EX



WIRING TYPE	OPTIONS
03 ending wiring	C/W ceiling / wall bracket
04 through wiring	

**EXP03**  
MLED



WATTAGE	CRI AND COLOUR TEMP.	HOUSING	CABLE ENTRY	CABLE GLANDS	FIXING TYPE	OPTIONS
220   25W	830 CRI 80 3000 K	- zinc coated steel	P	10 M20 polyamide	W fixed bracket	A3/AT battery backup system 3h with autotest
240   50W	840 CRI 80 4000 K	S stainless steel 304*	PA	11 M20 brass	WN bracket fixed to the body with rivet nuts	A3/TEMP** battery backup system 3h with heater
240   70W**	865 CRI 80 6500 K	S316 stainless steel 316L*	K	13 M20 brass screen cable	H bolt kit	
	865 CRI 80 5000 K		KA	20 M25 polyamide	WD welded bracket	
			PAK	21 M25 brass	N rivet nuts	
				23 M25 brass screen cable		

\* please select bracket W or WN  
\*\* versions without ATEX

**EXP03**  
LED



WATTAGE	HOUSING	CABLE ENTRY	CABLE GLANDS	FIXING TYPE
220   -	- zinc coated steel	P	10 M20 polyamide	W fixed bracket
240   -	S stainless steel 304*	PA	11 M20 brass	WN bracket fixed to the body with rivet nuts
	S316 stainless steel 316L*	K	13 M20 brass screen cable	H Bolt kit
		KA	20 M25 polyamide	WD welded bracket
		PAK	21 M25 brass	N rivet nuts
			23 M25 brass screen cable	

\* please select bracket W or WN

**EXPLOSION PROOF** | available configurations

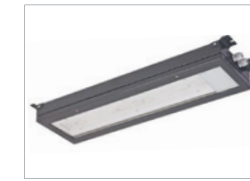
**EXP05**  
MLED



WATTAGE	POWER SUPPLY	CRI AND COLOUR TEMP.	CABLE ENTRY	CABLE GLANDS	OPTIONS	HOUSING /DIFFUSER	LIGHT CONTROL	
220   2x11 W	7 220-240V AC/DC	830 CRI 80 3000 K	P 	10 M20 polyamide	A3/AT battery backup system 3h with autotest	PC polycarbonate housing*	DALI	
240   4x11 W		840 CRI 80 4000 K	K 	11 M20 brass	A3/TEMP battery backup system 3h with heater	PMMA polymethyl methacrylate diffuser**		
260   6x11 W		850 CRI 80 5000 K	KA 			CB version for central battery		
		865 CRI 80 6500 K	PAK 			ADR addressable module		

\* lack of PC symbol means housing made of GRP  
\*\* lack of PMMA symbol means diffuser made of PC

**EXP39**  
MLED



WATTAGE	CRI AND COLOUR TEMP.	DIFFUSER	HOUSING	OPTIONS
210   7 W 210   11 W 210   16 W	830 CRI 80 3000 K	G hardened glass	- zinc coated steel	A3 battery backup system 3h DALI
	840 CRI 80 4000 K	PC polycarbonate	S stainless steel 304	
	956 CRI 90 5600 K		S316 stainless steel 316L	
220   22 W 220   29 W 220   33 W	865 CRI 80 6500 K			
	230   44 W 230   49 W			
	240   58 W 240   64 W			

**EXP17**  
MLED



WATTAGE	CRI AND COLOUR TEMP.	OPTICS	OPTIONS
1   50 W	840 CRI 80 4000 K	N narrow	DALI
2   100 W	956 CRI 90 5600 K	W wide	
3   150 W		AS asymmetric	

**EXP19**  
MLED



WATTAGE	CRI AND COLOUR TEMP.	OPTICS	OPTIONS
2   100 W	830 CRI 80 4000 K	N narrow	DALI
3   150 W	956 CRI 90 5600 K	W wide	
4   200 W			

# Industrial Luminaires

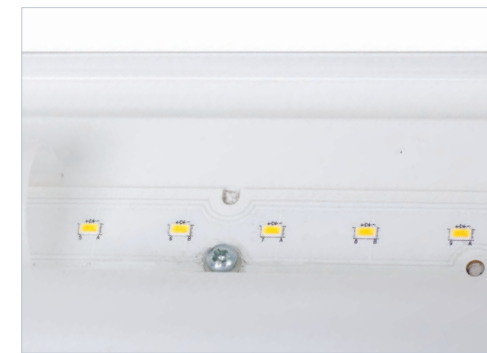


## INDUSTRIAL LUMINAIRES

# TLP44 MLED

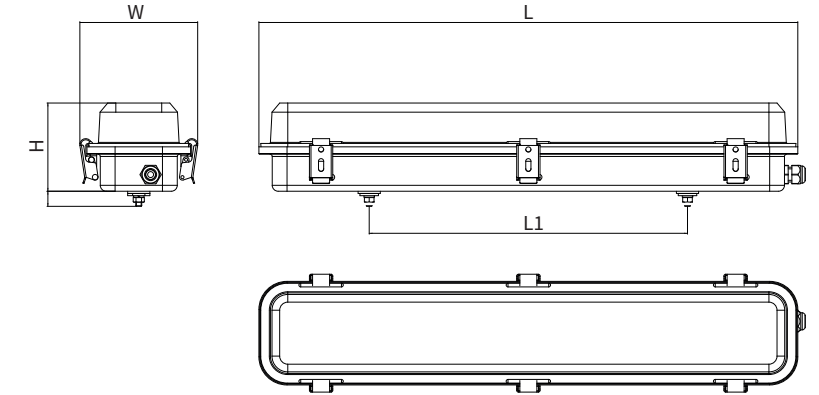


IP 67; IP 66; CLASS I



DIMENSIONS [mm]

Type	L	L1	W	H
TLP 44-MLED220	728	430	159	119
TLP 44-MLED240	1336	950	147	119



## APPLICATION

Dustproof and watertight luminaire for LED source type. Designed for the industrial facilities, utility rooms: warehouses, production spaces, workshops, pathways and outdoor areas limited to spaces partially protected against the weather - ie .: sheds, roofing, etc.

For areas fully exposed to the weather conditions use dedicated stainless steel version or with WN brackets.

Luminaire equipped with diffuser mounted on LED panel for light pattern shaping and reducing glare.

## TECHNICAL DATA

Protection class:	I
Protection degree:	IP 67, IP 66
Power factor:	≥ 0,95
Ambient temperature:	from -25°C to +40°C*
Power supply:	220-240V AC/DC
Lifetime:	L70/B50 for > 60 000h

\*Ambient temperature with battery from 0° up to +40°C

## ELECTRIC UNIT

Cable gland:	2 x M20, 2 x blanking plug
Cable diameter:	ø 6-12 mm
Terminal block:	2x/3x6 mm <sup>2</sup>

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
TLP 44-MLED220/211	23 W	3121 lm	4,0 kg
TLP 44-MLED240/411	46 W	5760 lm	6,5 kg

## CONSTRUCTION

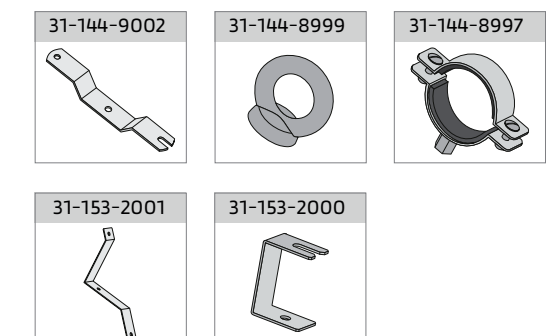
Housing:	zinc coated steel, powder painted
Diffuser:	UV stabilized and strengthened polycarbonate **
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted

\*\*Chemical resistance diagram available on manufacturer's website in section „Designers area“

31-144-9002	"W" bracket (2 pcs set)
31-153-2001	slanting bracket (2 pcs set)
31-153-2000	angular bracket (2 pcs set)
31-144-8999	eyelet sling (2 pcs set)
31-144-8997	3/2" stainless pole bracket (2 pcs set)

## ADDITIONAL EQUIPMENT

Only for zinc coated steel version



## TECHNICAL DATA



## APPROVALS



INDUSTRIAL LUMINAIRES

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LIGHTING TECHNOLOGIES

## INDUSTRIAL LUMINAIRES

# TLP44 LED



## APPLICATION

Dustproof and waterproof luminaire for the single sided LED tubes with G13 lamp base. The luminaire is designed for the industrial areas and facilities also outdoor spaces. For areas fully exposed to the weather conditions use dedicated stainless steel version or with WN bracket.

## TECHNICAL DATA

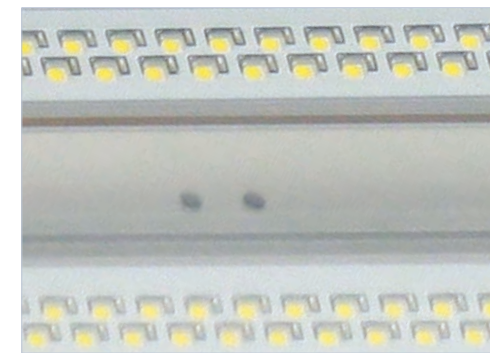
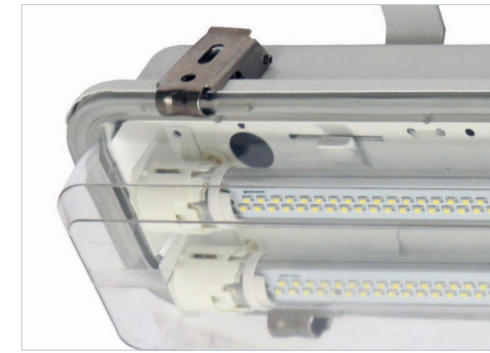
Protection class:	I
Protection degree:	IP 66/67
Power factor:	> 0,95
Ambient temperature:	from -35°C to +40°C**

\*\*dependent on used LED tubes

## ELECTRIC UNIT

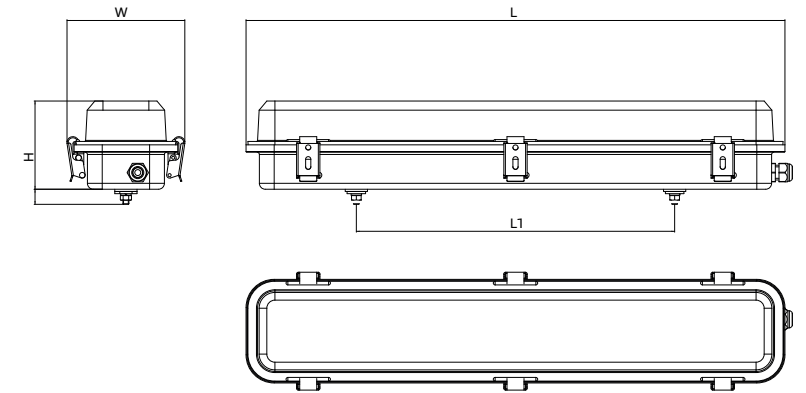
Cable gland:	2 x M20, 1 x blanking plug
Cable diameter:	ø 6-12 mm
Terminal block:	2 x /3x4 mm <sup>2</sup> /

## IP 67; IP 66; CLASS I



## DIMENSIONS [mm]

Type	L	L1	W	H
TLP 44-220/LED	728	430	159	119
TLP 44-240/LED	1336	950	147	119



TYPE	LED TUBES LENGTH	LAMP BASE	WEIGHT (WITHOUT LED TUBES)
TLP 44-220/LED	600	G13	3,2 kg
TLP 44-240/LED	1200	G13	4,9 kg

## CONSTRUCTION

Housing:	zinc coated steel, powder painted
Diffuser:	UV stabilized and strengthened polycarbonate *
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted

\*\*Chemical resistance diagram available on manufacturer's website in section „Designers area“

## TECHNICAL DATA



## APPROVALS

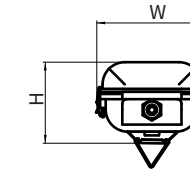


**INDUSTRIAL  
LUMINAIRES**

**TLP02  
MLED**

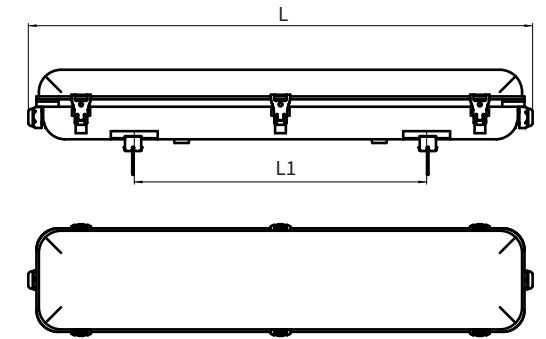


**IP 66; CLASS I**



**DIMENSIONS [mm]**

Type	L	L1	W	H
TLP 02-MLED220	682	395	149	109
TLP 02-MLED240	1301	807	149	109
TLP 02-MLED260	1596	1102	149	109



**APPLICATION**

Dustproof and watertight luminaire for LED source type. Designed to light industrial facilities, utility rooms: warehouses, production spaces, workshops, pathways etc.  
Luminaire for outdoor use limited to space partially protected against the weather - ie.: sheds, roofing, etc.

**TECHNICAL DATA**

Protection class:	I
Protection degree:	IP 66, IK 08
Power factor:	≥ 0,95
Ambient temperature:	from -25°C to +50°C*
Power supply:	220-240V AC/DC
Lifetime:	L70/B50 for > 60 000 h

\*ambient temp. for emergency version from 0°C to 40°C

**ELECTRIC UNIT**

Cable gland:	2 x M20, 2 x blanking plug
Cable diameter:	ø 6-12 mm
Terminal block:	2 x /3x6 mm <sup>2</sup> /

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
<b>TLP 02-MLED220/211</b>	21 W	3714 lm	2,4 kg
<b>TLP 02-MLED240/411</b>	44 W	7179 lm	4,3 kg
<b>TLP 02-MLED260/66</b>	73 W	12394 lm	5,1 kg

**CONSTRUCTION**

Housing:	poliester fibreglass reinforced
Diffuser:	semi-opal UV stabilized polycarbonate *
Diffuser clips:	stainless steel
Mounting plate:	zinc coated steel, powder painted
Power supply:	220-240V AC/DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area”

**TECHNICAL DATA**



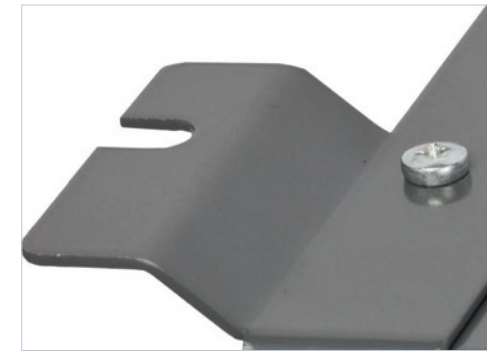
**APPROVALS**



# TLP39 MLED

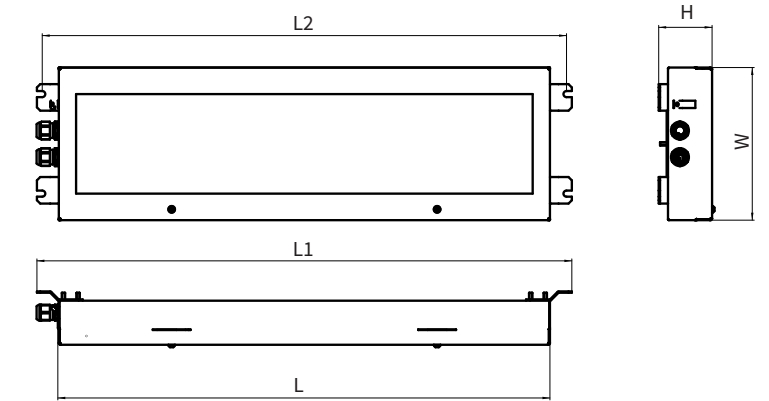


IP 66; LED; CLASS I



DIMENSIONS [mm]

Type	L	L1	L2	W	H
TLP 39-MLED210	462	528	508	230	80
TLP 39-MLED220	742	806	790	230	80
TLP 39-MLED230	1030	1096	1080	230	80
TLP 39-MLED240	1314	1375	1364	230	80



## APPLICATION

Dustproof and waterproof luminaire with energy-efficient LED light source. Designed to light industrial facilities such as production halls, collecting halls, workshops, heavy-duty industry (plants), electro-machinery, arms industry, food industry, warehouses, wholesalers, path ways etc..

### TECHNICAL DATA

Protection class:	I
Protection degree:	IP 66
Power factor:	≥ 0,95
Ambient temperature:	from -25°C to +45°C*
Power supply:	220-240V AC/DC
Lifetime:	> 50 000 h

\*ambient temp. for emergency version from 0°C to 40°C

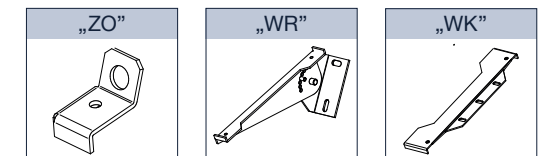
### ELECTRIC UNIT

Cable gland:	2 x M20
Cable diameter:	ø 8-13 mm
Terminal block:	3x4 mm <sup>2</sup>

Ending or through wiring.

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
TLP 39-MLED210/7	9 W	1050 lm	4,0 kg
TLP 39-MLED210/11	11 W	1700 lm	4,0 kg
TLP 39-MLED210/16	19 W	2400 lm	4,0 kg
TLP 39-MLED220/22	25 W	2700 lm	7,8 kg
TLP 39-MLED220/29	32 W	3800 lm	7,8 kg
TLP 39-MLED220/33	39 W	4800 lm	7,8 kg
TLP 39-MLED230/44	47 W	5500 lm	9,2 kg
TLP 39-MLED230/49	52 W	7300 lm	9,2 kg
TLP 39-MLED240/58	62 W	8400 lm	13,0 kg
TLP 39-MLED240/64	72 W	9000 lm	13,0 kg

### ADDITIONAL EQUIPMENT



Eyelet sling: for TLP 39 MLED  
Flexible bracket „WR“: for TLP 39 MLED  
Cable tray „WK“ bracket: for TLP 39 MLED

### CONSTRUCTION

Housing:	zinc coated steel, powder painted
Diffuser:	hardened glass or PC*
Mounting plate:	zinc coated steel, powder painted
Power supply:	220-240V AC/DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

### TECHNICAL DATA



### APPROVALS



INDUSTRIAL  
LUMINAIRES

# PTE40 MLED



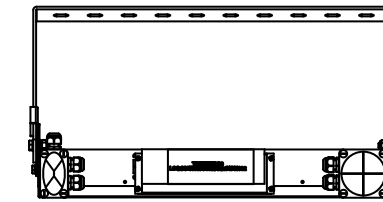
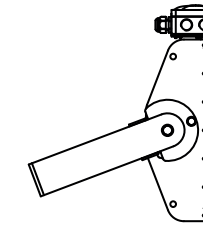
## APPLICATION

Dustproof and watertight luminaire for LED source type. Designed for the industrial facilities, utility rooms: warehouses, production spaces, workshops, pathways and open areas.  
Luminaire equipped with lens mounted on LED panel for light pattern shaping and reducing glare.

## TECHNICAL DATA

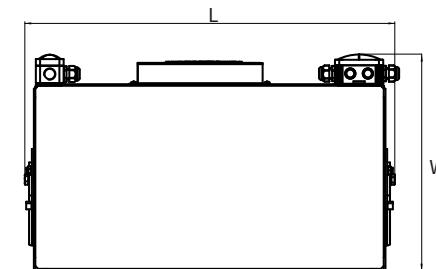
Protection class:	I
Protection degree:	IP 66/67
Ambient temperature:	from - 25°C to +45°C
Power supply:	220-240V AC
Power factor:	> 0,95
Protection degree:	IK 08
Lifetime:	L70B50 > 72 000 h

## IP 66/67; LED; CLASS I



## DIMENSIONS [mm]

Type	L	W
PTE 40-MLED2	379	378
PTE 40-MLED3	505	378
PTE 40-MLED2	638	378



TYPE	WATTAGE	LUMEN OUTPUT	NUMBER OF CHAMBERS	WEIGHT
PTE 40-MLED2/1017	100 W	14274 lm	1	10 kg
PTE 40-MLED3/1347	135 W	18766 lm	1	14 kg
PTE 40-MLED4/1257	205 W	28532 lm	1	16,6 kg

## CONSTRUCTION

Housing:	powder painted steel, aluminium radiator,
Diffuser:	hardened glass
Mounting bracket*:	powder painted steel

\*mounting bracket ordered separately

## TECHNICAL DATA



## APPROVALS



# TLP51 MLED

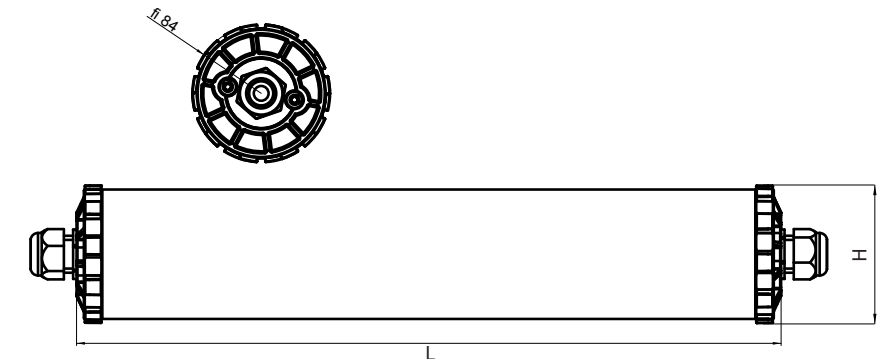


IP 68; LED; CLASS I



DIMENSIONS [mm]

Typ	L	H
TLP 51-MLED380/3	381	92
TLP 51-MLED520/6	518	92
TLP 51-MLED800/11	798	92
TLP 51-MLED1400/22	1358	92



## APPLICATION

Dustproof and watertight luminaire for LED source type. Designed for the industrial facilities, utility rooms and open areas. Perfect for chemically aggressive environments and places where pressure washing is necessary.

## TECHNICAL DATA

Protection class:	I
Protection degree:	IP 68
Ambient temperature:	- 25°C +45°C
Power supply:	220-240V AC
Power factor:	> 0,95
Lifetime.:	L70B50 >72 000h

## ELECTRIC UNIT

Cable gland:	2 x M20
Cable diameter:	7-13 mm

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
TLP 51-MLED380/3	4 W	465 lm	1,5 kg
TLP 51-MLED520/6	7 W	870 lm	1,7 kg
TLP 51-MLED800/11	13 W	1770 lm	2,3 kg
TLP 51-MLED1400/22	22 W	3343 lm	3,2 kg

## CONSTRUCTION

Tube:	polycarbonate
Mounting bracket:	stainless steel
End caps:	POM-C

### TECHNICAL DATA



### APPROVALS

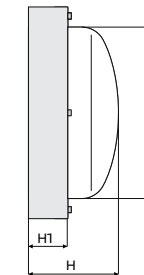
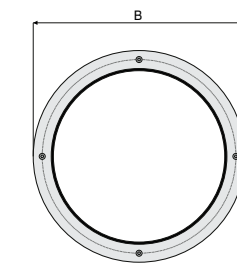


INDUSTRIAL  
LUMINAIRES

SLP90  
MLED

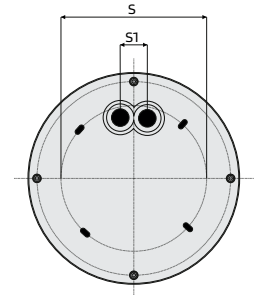


IP 67; CLASS I



DIMENSIONS [mm]

Typ	B	B1	H	H1	S	S1
SLP 90- MLED	247	200	105	46	170	32



APPLICATION

Dustproof and watertight luminaire for LED light source.  
Designed to light facilities with high dust dustiness and possibility of water streams appearance.

TYPE	WATTAGE	LUMEN OUTPUT	WEIGHT
SLP 90-MLED/250/14	14 W	2050 lm	1,8 kg

TECHNICAL DATA

Protection class:	I
Protection degree:	IP 67
Power factor:	≥ 0,90
Ambient temperature:	from -25°C to +45°C

CONSTRUCTION

Housing:	stainless steel, powder painted
Diffuser:	acrylic (PMMA), opal, UV stabilized*
Mounting plate:	stainless steel, powder coated
Supply voltage:	220V-240V AC/DC

\* Chemical resistance diagram available on manufacturer's website in section „Designers area“

ELECTRIC UNIT

Luminaire equipped with two grommets IP 67	
Cable diameter:	ø max 12 mm
Terminal block:	3x2,5 mm <sup>2</sup>
Mains supply:	ending or through wiring.

TECHNICAL DATA



APPROVALS



INDUSTRIAL  
LUMINAIRES

# CLP10

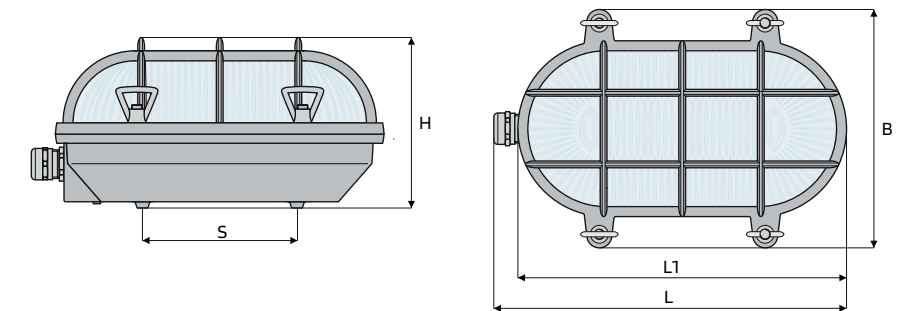


IP 65; A80; CLASS I



DIMENSIONS [mm]

Type	L	L1	B	H	S
CLP 10	246	230	167	120	109



## APPLICATION

Dustproof and watertight luminaire for incandescent lamps. Suitable for lighting outdoor and indoor industrial facilities and utility rooms.

TYPE	WATTAGE	LAMP BASE	WEIGHT
CLP 10-1100	Max. 15 W LED	E27	1,4 kg

## TECHNICAL DATA

Protection degree:	IP 65
Protection class:	I
Power factor:	≥ 0,85
Ambient temperature:	from -20°C to +45°C

## CONSTRUCTION

Housing:	brass cast
Diffuser:	tempered glass covered with brass protection grid

Varnished metal parts.  
Other RAL colour available.

### TECHNICAL DATA



### APPROVALS





TLP44 MLED



TLP44 LED



WATTAGE	CRI AND COLOUR TEMP.	HOUSING	CABLE ENTRY	CABLE GLANDS	FIXING TYPE	OPTIONS		
220   24W	830 CRI 80 3000 K	- zinc coated steel	P 	10 M20 poliamide	W	A3 battery backup system 3h with autotest	DALI	ZT low temp. version***
240   48W	840 CRI 80 4000 K	S stainless steel 304*	PA 	11 M20 brass	WN	A3/TEMP battery backup system 3h with heater**		WT high temp. version***
	850 CRI 80 5000 K	S316 stainless steel 316L*	K 	13 M20 brass screen cable	H	CB version for central battery		
	865 CRI 80 6500 K		KA 	20 M25 poliamide				
			PAK 	21 M25 brass				
				23 M25 brass screen cable				

WATTAGE	HOUSING	CABLE ENTRY	CABLE GLANDS	FIXING TYPE
220   -	- zinc coated steel	P 	10 M20 poliamide	W fixed bracket
240   -	S stainless steel 304*	PA 	11 M20 brass	WN bracket fixed to the body with rivet nuts
	S316 stainless steel 316L*	K 	13 M20 brass screen cable	H bolt kit
		KA 	20 M25 poliamide	
		PAK 	21 M25 brass	
			23 M25 brass screen cable	

\* please select bracket W or WN  
 \*\* version without CNBOP certificate  
 \*\*\*The parameters of the ZT and WT version are not standard.

\* please select bracket W or WN

Ask for details..

TLP02  
MLED



WATTAGE	POWER SUPPLY	CRI AND COLOUR TEMP.	CABLE ENTRY	CABLE GLANDS	OPTIONS	HOUSING /DIFFUSER	LIGHT CONTROL
220   2x11 W	7 220-240V AC/DC	830 CRI 80 3000 K	P 	10 M20 poliamide	A3/AT battery backup system 3h with autotest	PC polycarbonate housing*	DALI
240   4x11 W		840 CRI 80 4000 K	K 	11 M20 brass	A3/TEMP battery backup system 3h with heater	PMMA methacrylate diffuser**	
260   6x11 W		850 CRI 80 5000 K	KA 		CB version for central battery		
		865 CRI 80 6500 K	PAK 		ADR addressable module		

\* lack of PC symbol means housing made of GRP  
 \*\* lack of PMMA symbol means diffuser made of PC

TLP39  
MLED



WATTAGE	CRI AND COLOUR TEMP.	DIFFUSER	HOUSING	OPTIONS	
	830 CRI 80 3000 K	G hardened glass	- zinc coated steel	A3 battery backup system 3h	DALI
210   7 W					
210   11 W	840 CRI 80 4000 K	PC polycarbonate	S stainless steel 304		
210   16 W	956 CRI 90 5600 K		S316 stainless steel 316L		
	865 CRI 80 6500 K				
220   22 W					
220   29 W					
220   33 W					
230   44 W					
230   49 W					
240   58 W					
240   64 W					

# PTE40 MLED



WATTAGE	CRI AND COLOUR TEMP.	OPTICS	OPTIONS
2   100 W	840 CRI 80 4000 K	N narrow	DALI
3   134 W		W wide	
4   205 W		AS asymmetric	

# TLP51 MLED



WATTAGE	POWER SUPPLY	CRI AND COLOUR TEMP.	OPTIONS
380   5 W	7 220-240V AC/DC	840 CRI 80 4000 K	BF blue filter
520   7 W	4 24V DC		RF red filter
800   13 W			
1400   24 W			

# SLP90 MLED



WATTAGE	CRI AND COLOUR TEMP.
250   14 W	840 CRI 80 3000 K
	840 CRI 80 4000 K

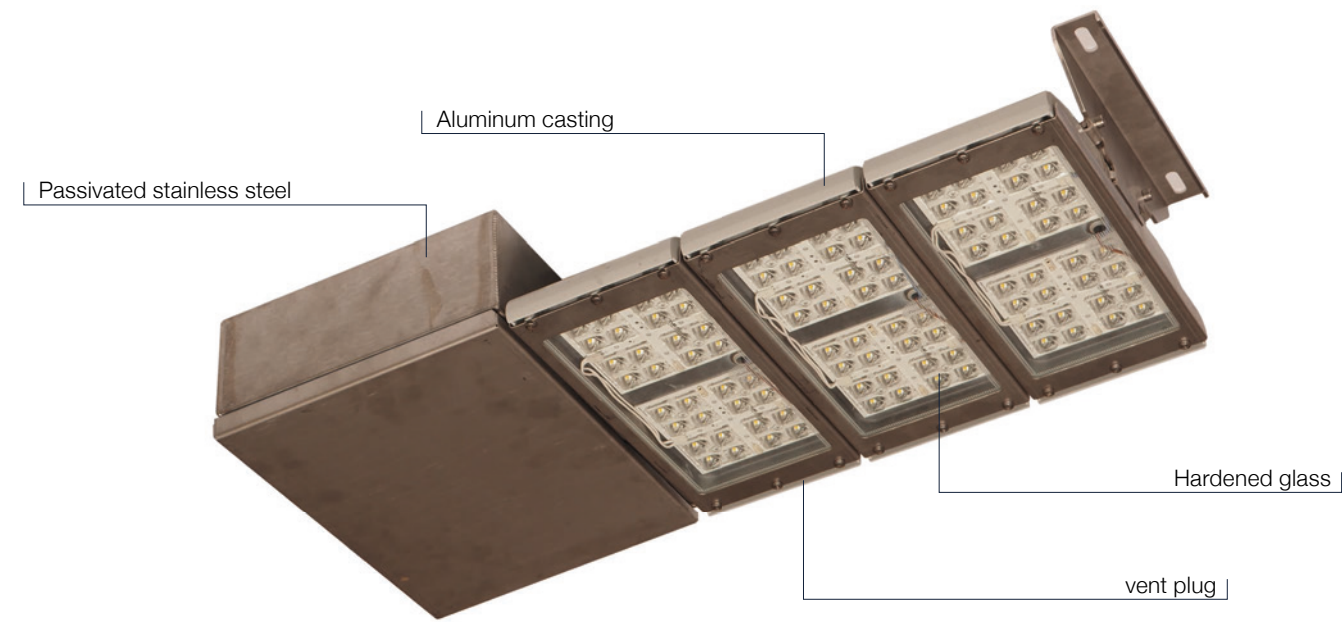
# tunnel luminaires



TUNNEL  
LUMINAIRES

INVESTMENT PRODUCT

# PB 21 MLED

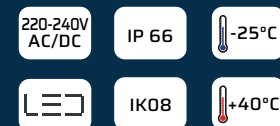


## APPLICATION

Modular industrial luminaire for special purposes with an energy-saving LED light source. Designed for the road infrastructure facilities eg.: tunnels, underground passages, passages under viaducts, etc.

Contact us for more details.

TECHNICAL DATA



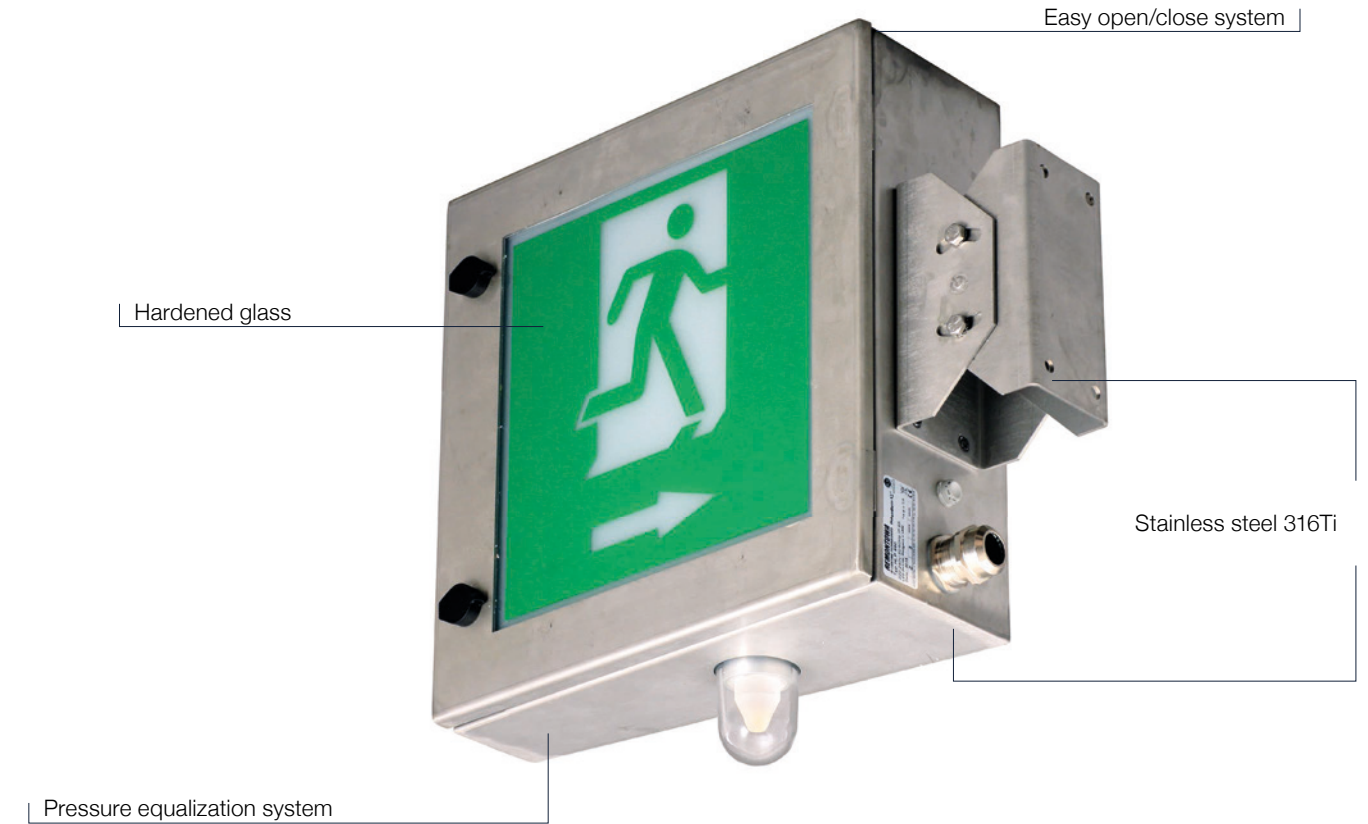
APPROVALS



TUNNEL  
LUMINAIRES

INVESTMENT PRODUCT

# HLP 990

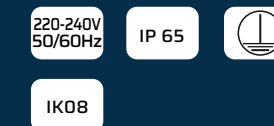


## APPLICATION

Emergency LED luminaire with object signalization. Suitable for lighting escape routes in commercial, industrial and public facilities (tunels, car pass etc).

Contact us for more details.

TECHNICAL DATA



APPROVALS



# HLP 900

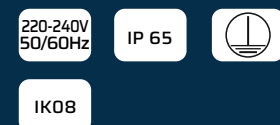


## APPLICATION

Emergency LED luminaire with direction/distance signalization. Suitable for lighting escape routes in commercial, industrial and public facilities (tunels, car pass etc).

Contact us for more details.

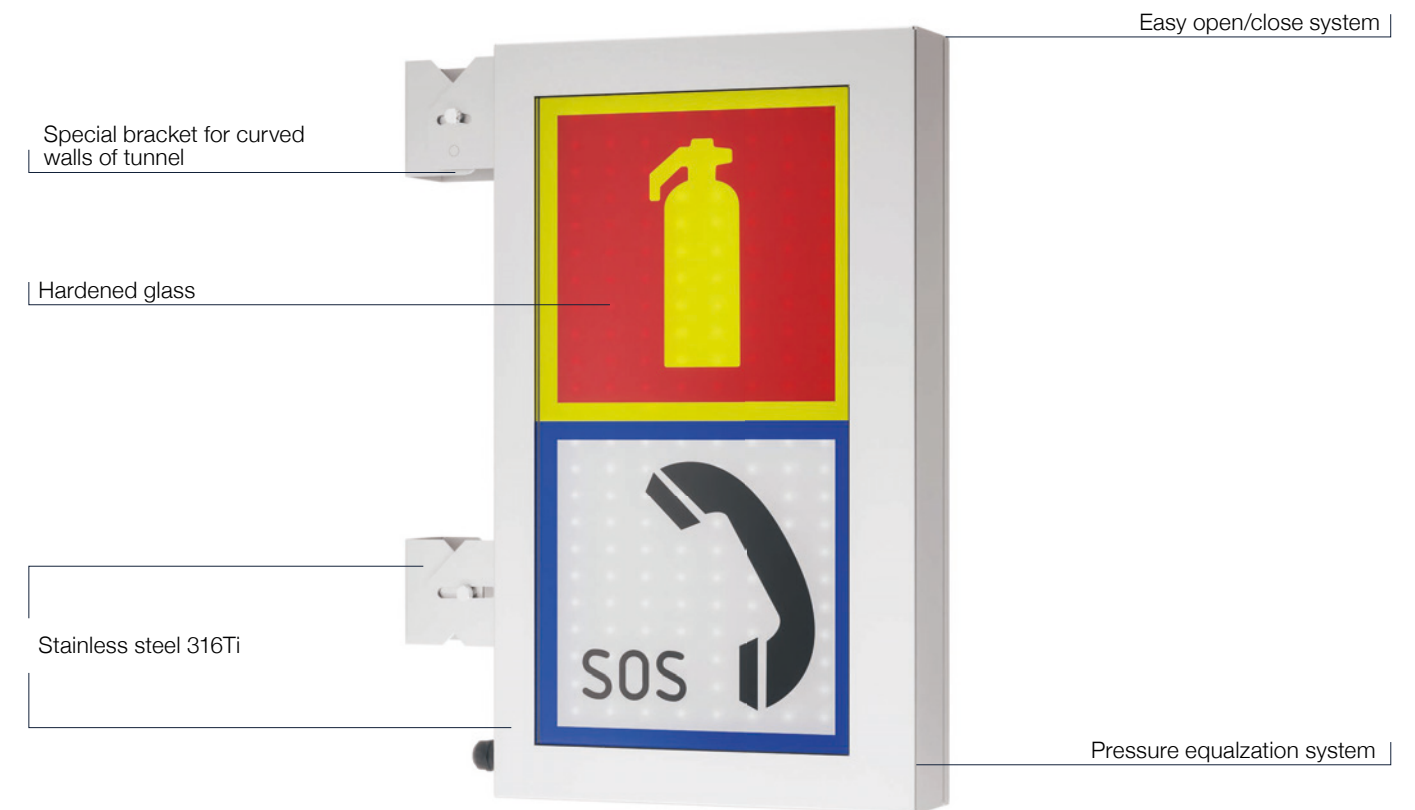
### TECHNICAL DATA



### APPROVALS



# HLP 910-2

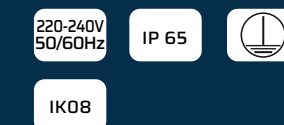


## APPLICATION

Information LED luminaire with two independent pictograms.

Contact us for more details

### TECHNICAL DATA



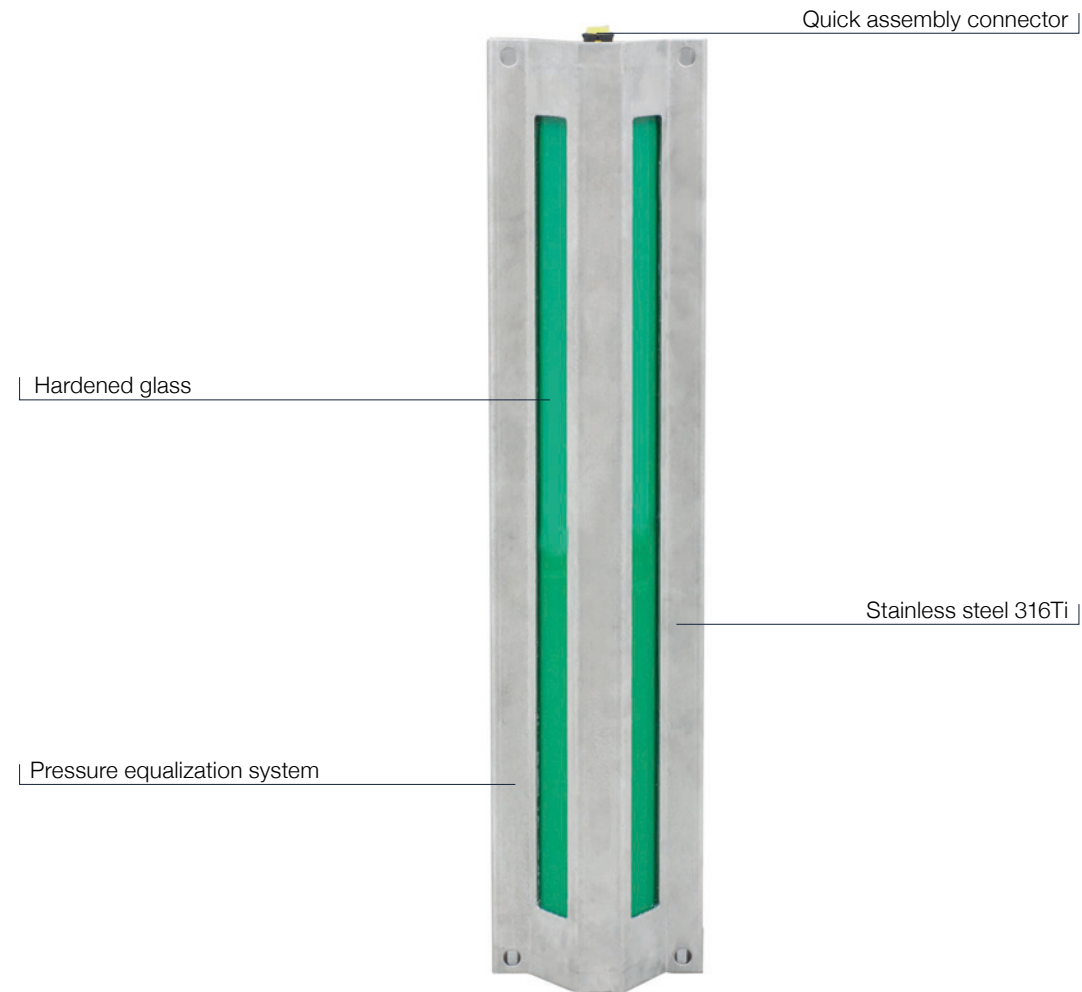
### APPROVALS



TUNNEL  
LUMINAIRES

INVESTMENT PRODUCT

# ZODE



## APPLICATION

Emergency LED set for exit door signalization. Suitable for lighting escape door in commercial, industrial and public facilities (tunels, car pass etc).

The set contains:

8 segments (6 x vertical lum. + 2 x horizontal lum.) and power box.

Contact us for more details.

### TECHNICAL DATA

220-240V  
50/60Hz

IP 65



IK08

### APPROVALS



TUNNEL LUMINAIRES

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LIGHTING TECHNOLOGIES REMONTOWA  
HOLDING S.A.

# SYMBOLS

USED IN CATALOGUE:

# INGRESS PROTECTION RATING

DEFINED BY FIRST AND SECOND NUMBER



ATEX certified



Certificate of approval of the Scientific and Research Center for Fire Protection

PN-EN 60079-15: 2010  
PN-EN 60079-31: 2014

Compliance with the indicated standards

The product has been tested by the manufacturer and found to meet EU health, safety and environmental protection requirements



IP 20

IP degree for dust and water protect

IP 68



I protection class



II protection class



Luminaire can be installed on inflammable surfaces

230V  
50Hz

Voltage and frequency, for example 220-240 V AC/DC

IK 02

IK degree for impact protection expressed in J

IK 10

-30°C

Minimum and maximum ambient temperature Ta

+70°C

POZIOM  
LEVEL  
N

Electromagnetic compatibility level EMC

PROTECTION DEGREE AGAINST DUST AND FOREIGN BODIES		PROTECTION DEGREE AGAINST WATER	
First number [X]	DESCRIPTION	Second number [Y]	DESCRIPTION
0	No protection	0	No protection
1	Large foreign bodies, diameter greater than or equal to 50 mm	1	Vertically falling water drops
2	Medium-size foreign bodies, diameter greater than or equal to 12 mm	2	Obliquely falling water drops up to 15° towards vertical
3	Small foreign bodies, diameter greater than or equal to 2.5 mm	3	Spray water up to 60° towards vertical
4	Grain-shaped foreign bodies, diameter greater than or equal to 1 mm	4	Splash water from all sides
5	Dust deposit	5	Jets of water
6	Ingress of dust	6	Powerful jets of water
-		7	Partial immersion
-		8	Immersion

**For example: IP 66**

luminaire protected against ingress of dust (6); protection against powerful jets of water (6)



**PolamRem** 

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≡ LIGHTING TECHNOLOGIES REMONTOWA  
HOLDING S.A.

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