

# *Zone 1/21 LED*

*Zone 1/21 Microwave Motion Sensors  
and Daylight Sensor*





### EXTRA-EX-LED

Linear\_PC



### EXTEND-EX-P-LED

Linear\_GRP/PC



### PITBUL-EX-LED/FROST

Linear\_Metal/304SS/Glass



### AQUA-70-EX-LED

Tubular\_PC (IP67/68/69)



### FILA-N21-LED

Linear\_Metal/304SS/Glass



### BERGER-N21-LED

High Bay\_Alu/Glass



# EXTRA-Ex-LED

IP 66 / Ex zone 1, 21

**5 year warranty**



IK10 (5kg@40cm)



FTZÚ 16 ATEX 0167X



**Application:** The dustproof lighting fixture EXTRA-Ex-LED with splash water resistance is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0167X).

**Ballast:** EP – electronic 110 – 254 V, 50/60 Hz AC, EP – electronic, 220 – 250 V, 0 Hz DC

**Light source:** LED, 4000K, CRI +80

**Housing:** Plastic material PC (polycarbonate), grey colour RAL 7035

**Diffuser:** Opal cover PC (polycarbonate)

**Fastening:** Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment) or set of wall brackets - angle 45°, pole mounting via set of pole brackets, suspension by means of wire or cable suspenders.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 4 mm<sup>2</sup>

**Standard equipment:** 1pc EX plastic cable gland M20x1.5 (as a standard for diameter of cable 7-12mm), 1 pc EX plastic plug M20x1.5, 2 pcs stainless steel fastening bracket-AISI 304, stainless clips, double cable clip.

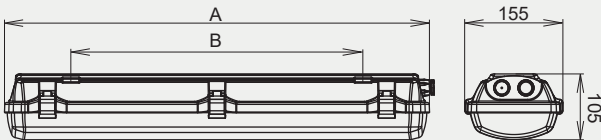
**Calculated lifetime – LED modules:**

L80B50 ta50 – 60 000h

**EXTRA-Ex-LED, MULTIEXTRA-Ex-LED, EXTRA-Ex-LED-Em**

Ⓜ II 2G Ex eb mb op is IIC T4 Gb

Ⓜ II 2D Ex tb op is IIC T67°C Db

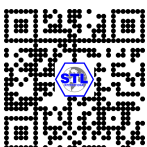


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A (mm)	Mounting spacing B (mm)	Equivalent**	Weight (kg)
050630	EXTRA-Ex-LED-OP-2750-218-4K	2345	16	147	50	670	460	2x18W	3,4
050610	EXTRA-Ex-LED-OP-4000-218-4K	3139	28	112	50	670	460	X	3,4
050631	EXTRA-Ex-LED-OP-5500-236-4K	4654	30	155	50	1280	880	2x36W	5,6
050611	EXTRA-Ex-LED-OP-8000-236-4K	6561	53	124	50*	1280	880	2x58W	5,6

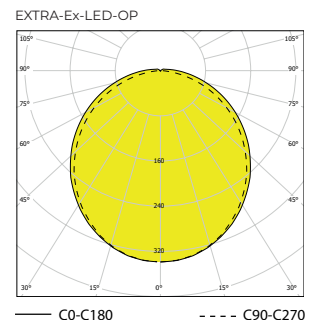
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

\* in version for 110V 50/60 Hz declared for ta 40°C

\*\* Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.



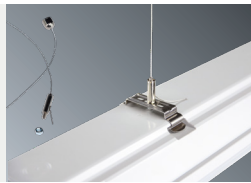
For areas with with the appearance of oily emulsions, aggressive chemicals, vibration, mechanical stress we recommend to use the fixtures series PITBUL-EX-LED, AQUA-EX-LED, EXTEND-EX-LED



## Accessories on request



001696 Wire suspension EXTRA



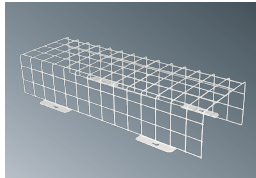
051131 Cable suspension EXTRA-2x (3m)



064643 Set of brackets to a wall - angle 45° EXTRA (2 pcs)



051157 Pole bracket EXTRA (for Ø 50 mm)



001748 LAK Protective cage EXTRA 18W  
001749 LAK Protective cage EXTRA 36W  
001750 LAK Protective cage EXTRA 58W

### Standard accessories M20

008060	Plastic cable gland Ex M20x1.5
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm
008090	Plastic sealing plug Ex M20x1.5
008097	Plastic nut WISKA EMUG 20 M20x1.5

### Accessories for armoured cable M20

008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008093	Nut WISKA EMMU20 M20x1.5 -nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

### Nickel-plated accessories M20

008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass ( 8 Nm)
008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm

## Lighting fixture detail



## Marking system and overview of approved variants of lighting fixtures

EXTRA-Ex-LED-XXXX-YYY	lighting fixture type for standard operation
MULTIEXTRA-Ex-LED-XXXX-YYY	lighting fixture type for maintained emergency lighting
EXTRA-Ex-LED-Em-XXXX-YYY	lighting fixture type for non-maintained emergency lighting
XXXX*	indicates value of luminous flux (lumen) 4000/8000
YYY*	indicates the type of lighting fixture housing 218/236

## On request

**EM-1.5/3** - non-maintained emergency lighting

**MULTI-1.5/3** - maintained emergency lighting

**1/3 F** - single-phase or three phase through wiring connection, max. diameter of wires 4 mm<sup>2</sup>

**3000 / 4000 / 6000 K** - colour temperature

Standard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
050610	X	X	X	X	X	050610 1F	050610 3F
050611	050612	050613	050614	050615	X	050611 1F	050611 3F

### Use of lighting fixtures in areas with danger of explosion

Danger of explosion of flammable dust

Danger of explosion of flammable gases and vapours

### Marking of external influences

BE3N1

BE3N1

### Marking

ZONE 21.22

ZONE 1.2

### Area classification

#### Directive

ČSN EN 60079-14, ČSN EN 60079-10-2

ČSN EN 60079-14, ČSN EN 60079-10-1

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# EXTEND-Ex-P-LED

IP 66 / zone 1, 21

**5 year warranty**



FTZÚ 16 ATEX 0080X



**Application:** Dustproof lighting fixture EXTEND-Ex-P-LED with splash water resistance is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0080X).

**Ballast:** EP – electronic 110 – 254 V, 50/60 Hz AC, EP – electronic, 220 – 250 V, 0 Hz DC

**Light source:** LED, 4000K, CRI +80

**Housing:** Plastic material GRP (polyester filled with fibreglass), grey colour RAL7035

**Diffuser:** PC (polycarbonate), clear

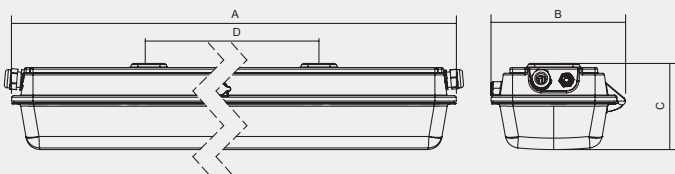
**Fastening:** Direct surface ceiling or wall mounting, ceiling mounting via set of stainless steel ceiling brackets, pole mounting via set of pole brackets, suspension mounting via set of suspension brackets.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 4 mm<sup>2</sup>

**Standard equipment:** 1 pc packing cable gland M25x1.5 (as a standard for diameter of cable 12-18mm), 2 pcs sealing plug M25x1.5

**Calculated lifetime – LED modules:** L80B50 ta55 - 50 000h

MULTI/EXTEND-Ex-P-LED	EXTEND-Ex-P-LED-WOD	EXTEND-Ex-P-LED-Em
II 2G Ex db eb mb op is IIC T4 Gb	II 2G Ex eb mb op is IIC T4 Gb	II 2G Ex db eb mb op is IIC T4 Gb
II Ex tb op is IIIC T71°C Db	II Ex tb op is IIIC T71°C Db	II Ex tb op is IIIC T71°C Db

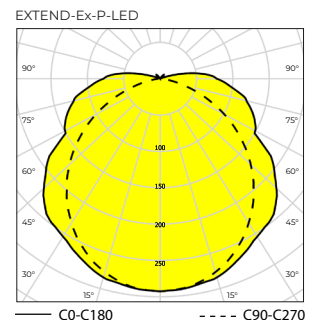


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Equivalent**	Weight (kg)
053275	EXTEND-Ex-P-LED-D-2750-218-4K	2224	16	139	55*	728x244x156	570	1x36W/2x18W	5,06
053260	EXTEND-Ex-P-LED-D-4000-218-4K	3158	28	113	55	728x244x156	570	X	5,06
053276	EXTEND-Ex-P-LED-D-5500-236-4K	4123	30	137	55	1328x244x156	830	2x36W	8,1
053261	EXTEND-Ex-P-LED-D-8000-236-4K	6138	53	116	55*	1328x244x156	830	X	8,1
053277	EXTEND-Ex-P-LED-WOD-2750-218-4K	2224	16	139	55*	728x244x156	570	1x36W/2x18W	4,98
053262	EXTEND-Ex-P-LED-WOD-4000-218-4K	3158	28	113	55	728x244x156	570	X	4,98
053278	EXTEND-Ex-P-LED-WOD-5500-236-4K	4123	30	137	55	1328x244x156	830	2x36W	7,94
053263	EXTEND-Ex-P-LED-WOD-8000-236-4K	6138	53	116	55*	1328x244x156	830	X	7,94

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

\* in version for 110V 50/60 Hz declared for ta 45°C

\*\* Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.



## Accessories on request



051200 Set of ceiling stainless steel brackets EXTEND (2 pcs)-AISI 304



053296 EXTEND set of pole brackets (2pcs)



004642 Suspension bracket DIN 580 M8 - 1 pc

### Standard accessories M25

008061	Cable gland OBO V-TEC EX M25x1.5 - 2050331 (5.0 Nm)
008089	Plastic sealing plug Ex M25x1.5
008102	Plastic nut WISKA EMUG 25 M25x1.5 black
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

### Accessories for armoured cable M25

008056	BIMED KBA 2M(25) Brass M25x1.5
008089	Plastic sealing plug Ex M25x1.5
008035	Nut WISKA EMMU25 M25x1.5 - nickel-plated brass
007075	Flat sealing ring EPDM 32x23.5x1.5 mm

## Marking system and overview of approved variants of lighting fixtures

EXTEND-Ex-P-LED-XXXX-YYY-WOD	- without disconnector
EXTEND-Ex-P-LED-XXXX-YYY-D	- with disconnector
EXTEND-Ex-P-LED-XXXX-YYY-1F	- single-phase through wiring connection
EXTEND-Ex-P-LED-XXXX-YYY-3F	- three-phase through wiring connection

XXXX indicates luminous flux intensity 4000/8000  
 YYY indicates type of lighting fixture housing 218/236

## Lighting fixture detail



## On request

**EM-1.5h/3h** - non-maintained emergency lighting  
**MULTI-1.5h/3h** - maintained emergency lighting

**1/3 F** - single-phase or three phase through wiring connection max. diameter of wires 4 mm<sup>2</sup>  
**3000/4000/6000K** - colour temperature

Stadard order number	EM-1,5H	EM-3H	MULTI-1,5H	MULTI-3H	DALI	1F	3F
053260	053268	053270	053264	053266	X	053260 1F	053260 3F
053261	053269	053271	053265	053267	X	053261 1F	053261 3F
053262	X	X	X	X	X	053262 1F	053262 3F
053263	X	X	X	X	X	053263 1F	053263 3F

### Use of lighting fixtures in areas with danger of explosion

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 21.22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1

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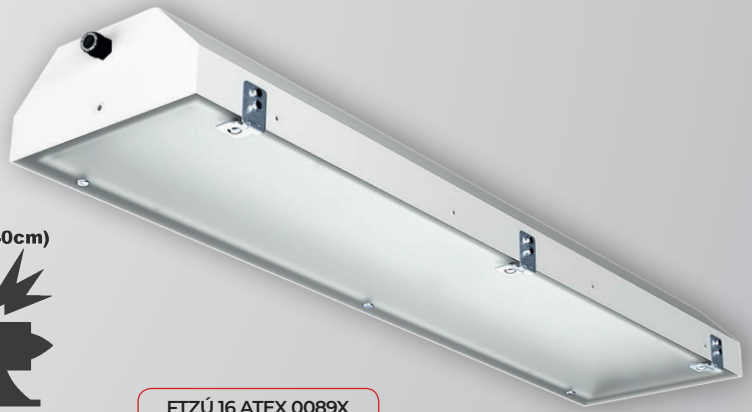


# PITBUL-Ex-LED

IP 65 / Ex zone 1, 21

**5 year warranty**

**SILICONE FREE**



IK10 (5kg@40cm)



FTZÚ 16 ATEX 0089X



**Application:** The dustproof lighting fixture PITBUL-Ex-LED with splash water resistance is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0089X).

**Ballast:** EP – electronic 110 – 254 V, 50/60 Hz, 220 – 250 V, 0 Hz DC

**Light source:** LED, 4000K, CRI +80

**Housing:** White painted steel sheet RAL 9003

**Diffuser:** Opal hardened safety glass with HST test

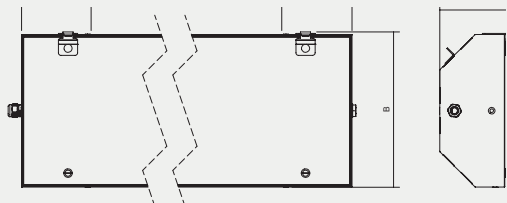
**Fastening:** Direct surface wall or ceiling mounting via M8 screws through the base, with ceiling brackets or adjustable brackets, suspension via suspension brackets, into false ceiling by means of recessed frame, on the pole with set of pole brackets.

**Connection:** Screwless three-pole terminal block, maximum diameter of wires 4 mm<sup>2</sup>

**Standard equipment:** 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-12mm, 1pc EX plastic sealing plug

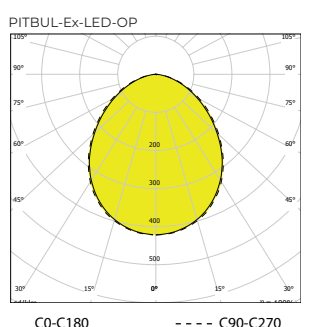
**Calculated lifetime – LED modules:**  
 L80B50 ta55°C - 50 000h - 418/436  
 L80B50 ta 60°C - 50 000h - 218/236

PITBUL-Ex-LED	PITBUL-Ex-LED-WOD
Ⓜ II 2G Ex db eb mb op is IIC T4 Gb	Ⓜ II 2G Ex eb mb op is IIC T4 Gb
Ⓜ II 2D Ex tb op is IIC T67°C Db	Ⓜ II 2D Ex tb op is IIC T67°C Db



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Equivalent*	Weight (kg)
<b>version with disconnecter - lighting fixtures suitable for ambient temperatures -20°C</b>									
053684	PITBUL-Ex-LED-OP-D-2750-218-4K	2377	16	149	60	703x310x142	450	3x18W	7,7
053700	PITBUL-Ex-LED-OP-D-4000-218-4K	3373	30	112	60	703x310x142	450	4x18W	7,7
053685	PITBUL-Ex-LED-OP-D-5500-418-4K	4695	30	157	55	703x369x142	450	2x36W	10,3
053701	PITBUL-Ex-LED-OP-D-8000-418-4K	6663	51	131	55	703x369x142	450	X	10,3
053686	PITBUL-Ex-LED-OP-D-5500-236-4K	4784	30	159	60	1313x310x142	800	X	15,1
053702	PITBUL-Ex-LED-OP-D-8000-236-4K	6742	53	127	60	1313x310x142	800	2x58W/3x36W	15,1
053687	PITBUL-Ex-LED-OP-D-11000-436-4K	9546	60	159	55	1313x369x142	800	3x58W	19,4
053703	PITBUL-Ex-LED-OP-D-16000-436-4K	13447	102	132	55	1313x369x142	800	4x58W	19,4
<b>version without disconnecter - lighting fixtures suitable for ambient temperatures -20°C</b>									
053680	PITBUL-Ex-LED-OP-WOD-2750-218-4K	2377	16	149	60	703x310x142	450	3x18W	7,7
053696	PITBUL-Ex-LED-OP-WOD-4000-218-4K	3373	30	112	60	703x310x142	450	4x18W	7,7
053681	PITBUL-Ex-LED-OP-WOD-5500-418-4K	4695	30	157	55	703x369x142	450	2x36W	10,3
053697	PITBUL-Ex-LED-OP-WOD-8000-418-4K	6663	51	131	55	703x369x142	450	X	10,3
053682	PITBUL-Ex-LED-OP-WOD-5500-236-4K	4784	30	159	60	1313x310x142	800	X	15,1
053698	PITBUL-Ex-LED-OP-WOD-8000-236-4K	6742	53	127	60	1313x310x142	800	2x58W/3x36W	15,1
053683	PITBUL-Ex-LED-OP-WOD-11000-436-4K	9546	60	159	55	1313x369x142	800	3x58W	19,4
053699	PITBUL-Ex-LED-OP-WOD-16000-436-4K	13447	102	132	55	1313x369x142	800	4x58W	19,4

Tolerance of luminous flux and power input of the lighting fixture +/- 10%  
 \* Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.

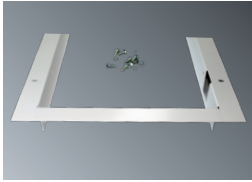



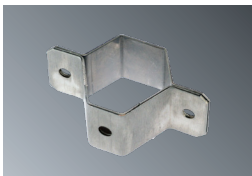


**SAFE answers to HAZARDOUS questions**



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta min (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Weight (kg)
<b>version FROST - lighting fixtures suitable for ambient temperatures -40°C</b>								
053690	PITBUL-Ex-LED-OP-FROST-WOD-4000-218-4K	3373	30	112	-40	703x310x142	450	10,3
053691	PITBUL-Ex-LED-OP-FROST-WOD-8000-418-4K	6663	51	131	-40	703x369x142	450	10,3
053692	PITBUL-Ex-LED-OP-FROST-WOD-8000-236-4K	6742	53	127	-40	1313x310x142	800	15,1
053693	PITBUL-Ex-LED-OP-FROST-WOD-16000-436-4K	13447	102	132	-40	1313x369x142	800	19,4

## Accessories on request

	053941 Set of recessed frame PITBUL 1x-3x18W 053942 Set of recessed frame PITBUL 4x18W 053943 Set of recessed frame PITBUL 1x-3x36W 053944 Set of recessed frame PITBUL 4x36W 053945 Set of recessed frame PITBUL 1x-3x58W 053946 Set of recessed frame PITBUL 4x58W		054935 Set of stainless steel ceiling brackets PITBUL (2 pcs)
	053940 Set of adjustable brackets PITBUL		004642 Suspension bracket DIN 580 M8 - 1 pc
	051146 Pole bracket PITBUL (for Ø 50 mm)	<b>Accessories for armoured cable M20</b> 008052 Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm) 008091 Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass 008093 Nut WISKA EMMU20 M20x1.5 - nickel-plated brass 007047N Flat sealing ring EPDM 27x18.5x1.5 mm	

## On request

**EM-1.5/3** - non-maintained emergency lighting

**1/3 F** - single-phase or three phase through wiring connection, maximum diameter of wires 4 mm<sup>2</sup>

**MULTI-1.5/3** - maintained emergency lighting

**RAL** - another colour scale

**NEREZ** - body from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

**3000/4000/6000K** - colour temperature

Standard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F	EM	
053684	X	X	X	053684 1F	053684 3F	053712	PITBUL-Ex-Em-LED-OP-600-218-4K
053700	053708	053704	X	053700 1F	053700 3F	053713	PITBUL-Ex-Em-LED-OP-900-236-4K
053685	X	X	X	053685 1F	053685 3F	053714	PITBUL-Ex-Em-LED-OP-400-218-4K
053701	053709	053705	X	053701 1F	053701 3F	053715	PITBUL-Ex-Em-LED-OP-500-236-4K
053686	X	X	X	053686 1F	053686 3F		
053702	053710	053706	X	053702 1F	053702 3F		
053687	X	X	X	053687 1F	053687 3F		
053703	053711	053707	X	053703 1F	053703 3F		
053680	X	X	X	053680 1F	053680 3F		
053696	X	X	X	053696 1F	053696 3F		
053681	X	X	X	053681 1F	053681 3F		
053697	X	X	X	053697 1F	053697 3F		
053682	X	X	X	053682 1F	053682 3F		
053698	X	X	X	053698 1F	053698 3F		
053683	X	X	X	053683 1F	053683 3F		
053699	X	X	X	053699 1F	053699 3F		

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 21.22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1

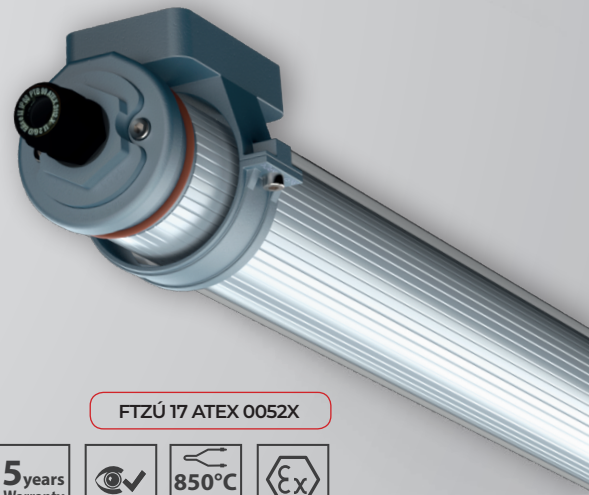


# AQUA-70-Ex-LED

IP 66 / IP 68 / zone 1, 21

**5 year warranty**

IK10 (5kg@40cm)



FTZÚ 17 ATEX 0052X



**Application:** Dustproof and water-tight lighting fixture AQUA-70-Ex-LED is designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0052X).

**Ballast:** EP – electronic 110-254 V, 50-60 Hz AC, 220-250 V, 0 Hz DC

**Light source:** LED, 4000K, CRI +80

**Housing:** Tube with outer diameter of 70 mm and wall thickness of 4 mm made from clear PC - IK10 (polycarbonate)

**Fastening:** Surface wall or ceiling mounting by means of plastic or stainless steel mounting brackets (not standard equipment) or suspension by means of cable suspenders

**Standard equipment:** 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-13mm, 1pc EX plastic sealing plug

**Calculated lifetime – LED modules:**

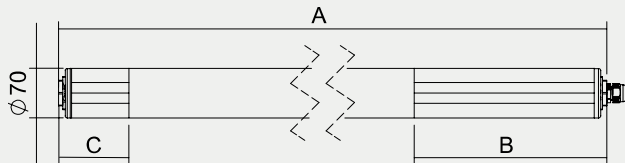
L80B50 ta50 – 45 000h

**AQUA-70-Ex-LED-D**

- ⊗ II 2G Ex db eb mb op is IIC T4 Gb
- ⊗ II 2D Ex tb op is IIIC T62°C Db

**AQUA-70-Ex-LED-WOD**

- ⊗ II 2G Ex eb mb op is IIC T4 Gb
- ⊗ II 2D Ex tb op is IIIC T62°C Db

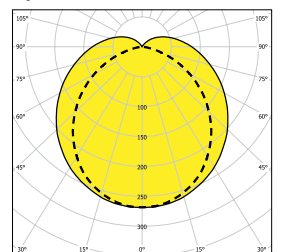


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output	Ta max (°C)	Equivalent*	Dimensions of lighting fixture A x B x C (mm)	Weight (kg)
084240	AQUA-70-Ex-LED-D-2750-118-4K	2107	16	132	50	X	1149x425x65	2,9
084200	AQUA-70-Ex-LED-D-4000-118-4K	3061	28	109	50	1x36W	1149x425x65	2,9
084241	AQUA-70-Ex-LED-D-5500-136-4K	4175	30	139	50	1x58W	1709x425x65	4,7
084201	AQUA-70-Ex-LED-D-8000-136-4K	5985	51	117	50	X	1709x425x65	4,7
084242	AQUA-70-Ex-LED-WOD-2750-118-4K	2107	16	132	50	X	1149x425x65	2,9
084202	AQUA-70-Ex-LED-WOD-4000-118-4K	3061	28	109	50	1x36W	1149x425x65	2,9
084243	AQUA-70-Ex-LED-WOD-5500-136-4K	4175	30	139	50	1x58W	1709x425x65	4,7
084203	AQUA-70-Ex-LED-WOD-8000-136-4K	5985	51	117	50	X	1709x425x65	4,7

Tolerance of luminous flux and power input of the lighting fixture +/- 10%

\* Luminaires are not a direct replacement. They may vary in length. The required lighting of the room must be verified by calculation.

AQUA-70-Ex-LED

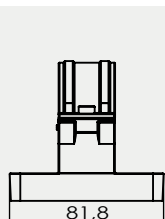


SAFE answers to HAZARDOUS questions

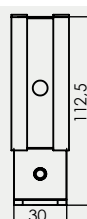
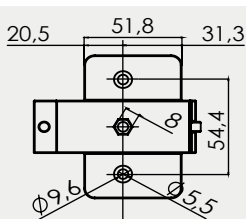
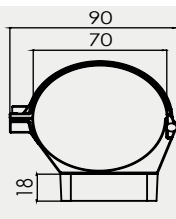
## Accessories on request

	008096 Plastic cable gland Ex M20x1.5 008097 Plastic nut WISKA EMUG 20 M20x1.5 008090 Sealing plug Ex M20x1.5 007047N Flat sealing ring EPDM 26x20x1.5 mm		<b>Direct mounting</b> 064898 Stainless steel mounting bracket AQUA-70 (1 pc) for direct surface mounting
	<b>Direct mounting</b> 053627 Stainless steel mounting bracket AQUA-70 (1 pc)		<b>Direct mounting</b> 053629 Mounting PC bracket AQUA-70, dark grey (1pc) <b>Suspended mounting</b> 051127 Cable suspension AQUA-70 (2 pcs) 053629 Mounting PC bracket AQUA-70, dark grey (1pc)
	<b>Direct mounting</b> 053628 Stainless steel mounting bracket AQUA-70 (1 pc) <b>Suspended mounting</b> 051134 Cable suspension AQUA-70 (2 pcs) stainless steel 053628 Stainless steel mounting bracket AQUA-70 (1 pc)		<b>Direct mounting</b> 053630 Mounting PC bracket AQUA-70, bright grey (1pc) <b>Suspended mounting</b> 051127 Cable suspension AQUA-70 (2 pcs) 053630 Mounting PC bracket AQUA-70, bright grey (1pc)

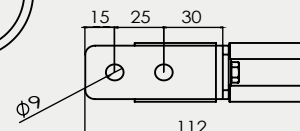
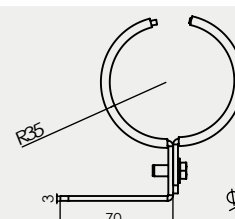
## Lighting fixture detail



053630



053627



## Marking system and overview of approved variants of lighting fixtures

AQUA-70-Ex-LED-D-XXXX-YYY	lighting fixture type for standard operation with disconnecter
AQUA-70-Ex-LED-WOD-XXXX-YYY	lighting fixture type for standard operation without disconnecter
XXXX*	indicates value of luminous flux (lumen) 4000/8000
YYY*	indicates type of lighting fixture housing 118/136

## On request

3000/4000/6000K- colour temperature

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 4 mm<sup>2</sup>

Stadard order number	EM-1H	EM-3H	MULTI-1H	MULTI-3H	DALI	1F	3F
084200	X	X	X	X	X	084200 1F	X
084201	X	X	X	X	X	084201 1F	X
084202	X	X	X	X	X	084202 1F	X
084203	X	X	X	X	X	084203 1F	X

### Use of lighting fixtures in areas with danger of explosion

Danger of explosion of flammable dust  
 Danger of explosion of flammable gases and vapours

### Marking of external influences

BE3N1  
 BE3N2

Marking  
 ZONE 21.22  
 ZONE 1.2

### Area classification

Directive  
 ČSN EN 60079-14, ČSN EN 60079-10-2  
 ČSN EN 60079-14, ČSN EN 60079-10-1

## STL International Ltd

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# FILA-N-LED

IP 66 / zone 2, 21 / 2, 22

**5 year warranty**

**SILICONE FREE**



FTZÚ 20 ATEX 0075X, FTZÚ 20 ATEX 0077X



**Application:** The dustproof recessed lighting fixture FILA-N-LED with splash water resistance designed for lighting of areas with danger of explosion. They can be used mainly in paint cabins and paint workshops. The lighting fixture is approved by FTZÚ Ostrava - Radvanice (certificate type FTZÚ 20 ATEX 0075X a FTZÚ 20 ATEX 0077X).

**Ballast:** EP – electronic 220-240V/50-60Hz AC, EVG – electronic 220-240V, 0 Hz DC

**Light Light source:** LED, 4000K, CRI +80, MacAdam3

**Housing:** Painted steel sheet RAL 9003

**Cover:** OP – opal tempered safety glass

**Reflector:** Painted steel sheet RAL 9003

**Fastening:** Recessed ceiling mounting or surface mounting using a mounting frame

**Connection:** Screwed connecting terminal block, maximum cable cross section 2.5 mm<sup>2</sup>

**Standard equipment:** 2 pcs EX M20 cable glands for diameter of cable 7-12mm and 3 pcs EX M20 sealing plug

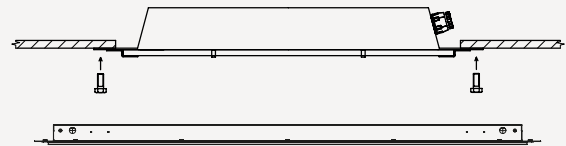
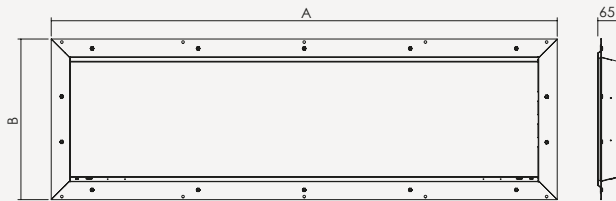
**Calculated life time of LED modules:** L80B10 ta35 – 70 000 h  
L70B10 ta35 – 100 000 h

**FILA-N-LED zone 2, 21**

- II 3G Ex nR IIC T6 Gc
- 2D Ex tb op is IIIC T70°C Db

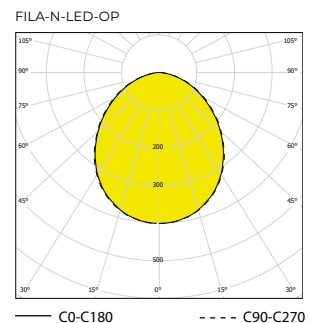
**FILA-N-LED zone 2, 22**

- II 3G Ex nR IIC T6 Gc
- II 3D Ex tc IIIC T70°C Dc



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	System efficiency (lm/W)	Ta max (°C)	Lighting fixture dimensions A x B x C (mm)	Mounting hole (mm)	Weight (kg)
<b>2, 21</b>								
050500	FILA-N-LED-2,21-OP-5000-218-4K	4372	33	132	65	770x380x65	720x335	9,5
050501	FILA-N-LED-2,21-OP-10000-418-4K	8847	66	134	50	770x530x65	720x485	16,3
050502	FILA-N-LED-2,21-OP-10000-236-4K	9362	66	142	50	1370x380x65	1320x335	20,9
050503	FILA-N-LED-2,21-OP-18300-436-4K	16354	117	140	45	1370x530x65	1320x485	13,4
050504	FILA-N-LED-2,21-OP-15000-258-4K	13580	101	134	45	1670x380x65	1620x335	22,4
050505	FILA-N-LED-2,21-OP-29000-458-4K	25692	188	137	40	1670x530x65	1620x485	27,7

Tolerance of luminous flux and power input of the lighting fixture +/- 10%



**SAFE answers to HAZARDOUS questions**

## Variants of lighting fixture



STANDARD



050500	FILA-N-LED-2,21-OP-5000-218-4K
050501	FILA-N-LED-2,21-OP-10000-418-4K
050502	FILA-N-LED-2,21-OP-10000-236-4K
050503	FILA-N-LED-2,21-OP-18300-436-4K
050504	FILA-N-LED-2,21-OP-15000-258-4K
050505	FILA-N-LED-2,21-OP-29000-458-4K



CORNER



050530	FILA-N-LED-2,21-OP-CORNER-10000-236-4K
050533	FILA-N-LED-2,21-OP-CORNER-15000-258-4K
050536	FILA-N-LED-2,21-OP-CORNER-29000-458-4K



DIAGONAL



050531	FILA-N-LED-2,21-OP-DIAGONAL-10000-236-4K
050534	FILA-N-LED-2,21-OP-DIAGONAL-15000-258-4K
050537	FILA-N-LED-2,21-OP-DIAGONAL-29000-458-4K



SURFACE



050532	FILA-N-LED-2,21-OP-SURFACE-10000-236-4K
050535	FILA-N-LED-2,21-OP-SURFACE-15000-258-4K
050538	FILA-N-LED-2,21-OP-SURFACE-29000-458-4K



SURFACE VERTICAL



050539	FILA-N-LED-2,21-OP-SURFACE-VERTICAL-15000-258-4K
050541	FILA-N-LED-2,21-OP-SURFACE-VERTICAL-10000-236-4K



SURFACE HORIZONTAL



050540	FILA-N-LED-2,21-OP-SURFACE-HORIZONTAL-15000-258-4K
050542	FILA-N-LED-2,21-OP-SURFACE-HORIZONTAL-10000-236-4K

### On request

**DIM** – dimmable electronic ballast (DALI)

**2.7K-6.5K** - colour temperature

**MULTI-1.5h/3h** - maintained emergency lighting

**EM-1.5h/3h** - non-maintained emergency lighting

**RAL** - other colour scale

**NANO** - lighting fixtures can be protected by special nano-layer (hydrophobic, oleophobic or antibacterial protection)

**NEREZ** - housing produced from stainless steel AISI 304 or AISI 316

(in case of STAINLESS STEEL version its declared for ambient temperature decreased about 5-10°C)

**1/3 F** - single-phase or three phase through wiring connection, maximum diameter of wires 2.5mm<sup>2</sup>

**SURFACE VERTICAL** - surface mounted, bevelled vertical wall

**SURFACE HORIZONTAL** - surface mounted, bevelled horizontal wall

**CORNER** - corner installation

**DIAGONAL** - installation under angle

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
050500	050510	050516	050500 DALI	050500 1F	050500 3F
050502	050512	050518	050502 DALI	050502 1F	050502 3F
050504	050514	050520	050504 DALI	050504 1F	050504 3F
050501	050511	050517	050501 DALI	050501 1F	050501 3F
050503	050513	050519	050503 DALI	050503 1F	050503 3F
050505	050515	050521	050505 DALI	050505 1F	050505 3F

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dusts	BE3N1	ZONE 21,22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 2	ČSN EN 60079-14, ČSN EN 60079-10-1

## STL International Ltd

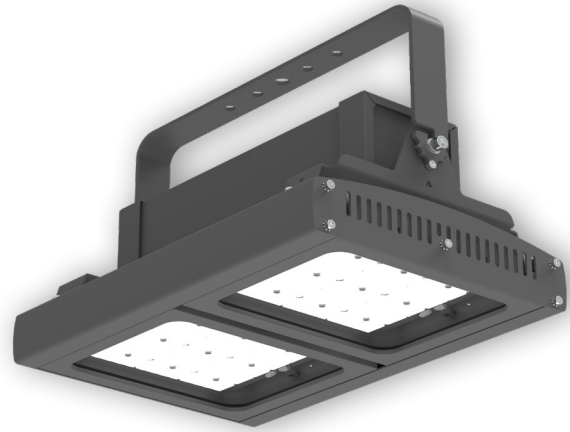
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# BERGER-N-LED

IP66 /  $\text{Ex}$  ZONE 2/21, 22

5 year warranty



**Application:** Robust explosion-proof **HIGH-BAY LED luminaire** designed for lighting of hazardous areas **ATEX ZONE 2/21, 22**. Housing made of extremely durable aluminium (RAL7043). Cover made of clear tempered safety glass. Optic system inside guarantees various lumen curves for different applications. High quality electronic components guarantee **high efficiency up to 167 lm/W and extremely long lifetime 100 000 h even at high temperatures**. **Modular system** allows to choose the luminous output according to project needs. **Dust and water proof with a rating IP66**. It can be operated at temperatures **from -40°C to +60°C**. Excellent heat dissipation due to additional cooling of each luminaire module. For suspended or surface mounting. Adjustable bracket allows a wide variety of applications.

**Ballast:** EP – electronic - 220–240 V, 50/60 Hz

**Light source:** LED, 4000 K, CRI +80, MacAdam3

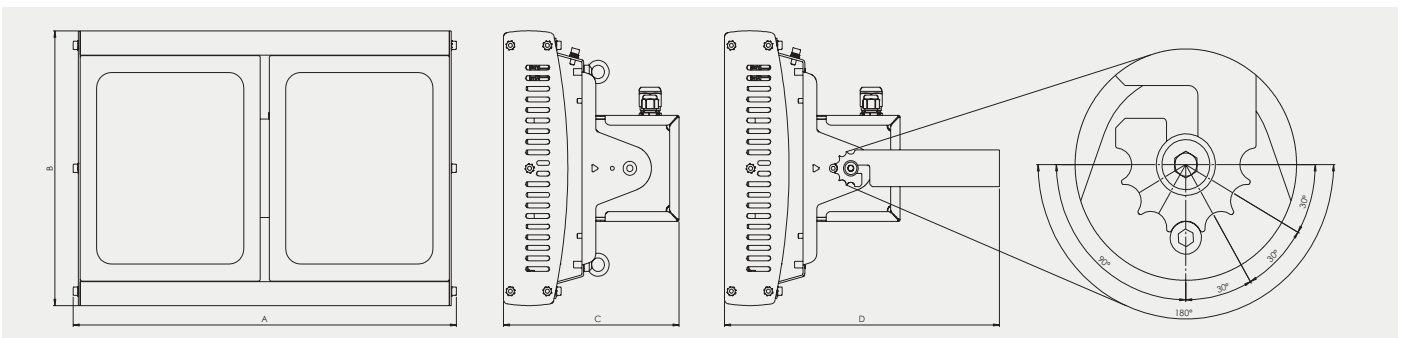
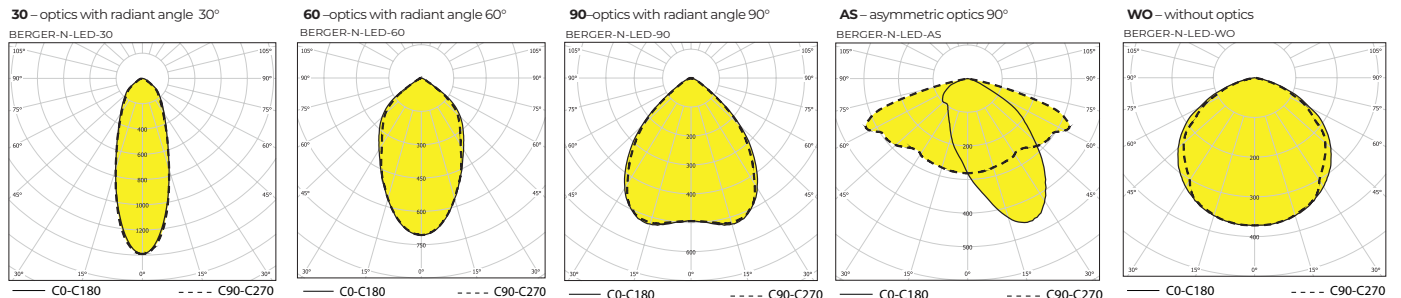
**Housing:** Aluminium profile RAL 7043

**Diffuser:** Clear tempered safety glass

**Fastening:** Suspended by means of brackets or surface mounted by means of adjustable bracket (adjustable bracket on request only) **Connection:** By means of 2 m cable. T50/T60 versions are as standard equipped with plastic cable gland

**Standard equipment:** 4x stainless steel suspending eye-bolts (M5), 2 m cable (3x1,5 mm<sup>2</sup>)

**Calculated life time of LED modules:** L90B50 Ta25 – 50 000 h; L80B50 Ta25 – 150 000 h; L70B50 Ta60 – 100 000 h



**ADVANTAGES:**

- Extreme high led lifetime L70B50 Ta60 - 100 000 h even at high temperatures
- Made in Europe - Czech Republic origin
- ATEX certification ZONE 2/21, 22
- Robust housing
- High efficiency up to 167 lm/W
- Luminous flux versions from 8 000 up to 43 000 lm
- Option of adjustable installation
- Variability of declared ambient temperatures

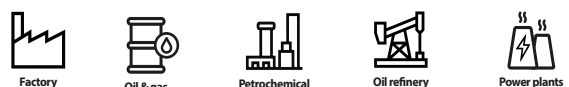
**BERGER-N-LED ZONE 2/21**  
(FTZÚ 22 ATEX 0107X)

- Ⓜ II 3G Ex nR IIC T6...T5 Gc
- Ⓜ II 2D Ex tb op is IIIC T85°C Db

**BERGER-N-LED ZONE 2/22**  
(FTZÚ 22 ATEX 0108X)

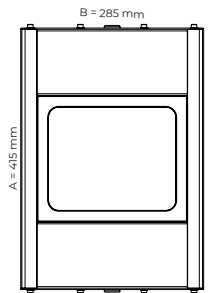
- Ⓜ II 3G Ex nR IIC T6...T5 Gc
- Ⓜ II 3D Ex tc IIIC T85°C Dc

**TYPICAL APPLICATION:**



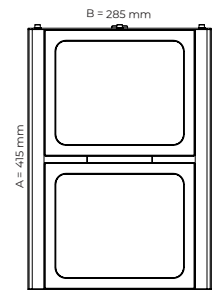
Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta (°C)	Dimensions of lighting fixture A x B x C (mm)	T-class	Nr. LED modules	Weight (Kg)
<b>Ta 50°C</b>									
080848	BERGER-N-LED-2,21-T50-30-12200-4K-1M, IP66	10031	69	145	-20°C/50°C	415x285x190	T6	1	8,5
080800	BERGER-N-LED-2,21-T50-60-12200-4K-1M, IP66	10767	69	156	-20°C/50°C	415x285x190	T6	1	8,5
080801	BERGER-N-LED-2,21-T50-90-12200-4K-1M, IP66	10922	69	158	-20°C/50°C	415x285x190	T6	1	8,5
080849	BERGER-N-LED-2,21-T50-AS-12200-4K-1M, IP66	9700	69	141	-20°C/50°C	415x285x190	T6	1	8,5
080802	BERGER-N-LED-2,21-T50-WO-12200-4K-1M, IP66	10566	69	153	-20°C/50°C	415x285x190	T6	1	8,5
<b>Ta 60°C</b>									
080856	BERGER-N-LED-2,21-T60-30-9900-4K-1M, IP66	8220	54	152	-20°C/60°C	415x285x190	T5	1	8,5
080812	BERGER-N-LED-2,21-T60-60-9900-4K-1M, IP66	8799	54	163	-20°C/60°C	415x285x190	T5	1	8,5
080813	BERGER-N-LED-2,21-T60-90-9900-4K-1M, IP66	8933	54	165	-20°C/60°C	415x285x190	T5	1	8,5
080857	BERGER-N-LED-2,21-T60-AS-9900-4K-1M, IP66	7948	54	147	-20°C/60°C	415x285x190	T5	1	8,5
080814	BERGER-N-LED-2,21-T60-WO-9900-4K-1M, IP66	8622	54	160	-20°C/60°C	415x285x190	T5	1	8,5
<b>Ta -40°C</b>									
080872	BERGER-N-LED-2,21-FROST-30-9900-4K-1M, IP66	8220	54	152	-40°C/50°C	415x285x190	T6	1	8,5
080836	BERGER-N-LED-2,21-FROST-60-9900-4K-1M, IP66	8799	54	163	-40°C/50°C	415x285x190	T6	1	8,5
080837	BERGER-N-LED-2,21-FROST-90-9900-4K-1M, IP66	8933	54	165	-40°C/50°C	415x285x190	T6	1	8,5
080873	BERGER-N-LED-2,21-FROST-AS-9900-4K-1M, IP66	7948	54	147	-40°C/50°C	415x285x190	T6	1	8,5
080838	BERGER-N-LED-2,21-FROST-WO-9900-4K-1M, IP66	8622	54	160	-40°C/50°C	415x285x190	T6	1	8,5

1M - 1 module



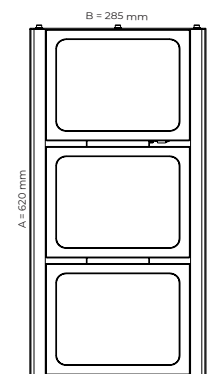
Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta (°C)	Dimensions of lighting fixture A x B x C (mm)	T-class	Nr. LED modules	Weight (Kg)
<b>Ta 50°C</b>									
080850	BERGER-N-LED-2,21-T50-30-24400-4K-2M, IP66	20061	136	148	-20°C/50°C	415x285x190	T6	2	11
080803	BERGER-N-LED-2,21-T50-60-24400-4K-2M, IP66	21534	136	158	-20°C/50°C	415x285x190	T6	2	11
080804	BERGER-N-LED-2,21-T50-90-24400-4K-2M, IP66	21844	136	161	-20°C/50°C	415x285x190	T6	2	11
080851	BERGER-N-LED-2,21-T50-AS-24400-4K-2M, IP66	19399	136	143	-20°C/50°C	415x285x190	T6	2	11
080805	BERGER-N-LED-2,21-T50-WO-24400-4K-2M, IP66	21132	136	155	-20°C/50°C	415x285x190	T6	2	11
<b>Ta 60°C</b>									
080858	BERGER-N-LED-2,21-T60-30-19800-4K-2M, IP66	16439	107	154	-20°C/60°C	415x285x190	T5	2	11
080815	BERGER-N-LED-2,21-T60-60-19800-4K-2M, IP66	17597	107	164	-20°C/60°C	415x285x190	T5	2	11
080816	BERGER-N-LED-2,21-T60-90-19800-4K-2M, IP66	17866	107	167	-20°C/60°C	415x285x190	T5	2	11
080859	BERGER-N-LED-2,21-T60-AS-19800-4K-2M, IP66	15895	107	149	-20°C/60°C	415x285x190	T5	2	11
080817	BERGER-N-LED-2,21-T60-WO-19800-4K-2M, IP66	17243	107	161	-20°C/60°C	415x285x190	T5	2	11
<b>Ta -40°C</b>									
080874	BERGER-N-LED-2,21-FROST-30-19800-4K-2M, IP66	16439	107	154	-40°C/50°C	415x285x190	T6	2	11
080839	BERGER-N-LED-2,21-FROST-60-19800-4K-2M, IP66	17597	107	164	-40°C/50°C	415x285x190	T6	2	11
080840	BERGER-N-LED-2,21-FROST-90-19800-4K-2M, IP66	17866	107	167	-40°C/50°C	415x285x190	T6	2	11
080875	BERGER-N-LED-2,21-FROST-AS-19800-4K-2M, IP66	15895	107	149	-40°C/50°C	415x285x190	T6	2	11
080841	BERGER-N-LED-2,21-FROST-WO-19800-4K-2M, IP66	17243	107	161	-40°C/50°C	415x285x190	T6	2	11

2M - 2 modules



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta (°C)	Dimensions of lighting fixture A x B x C (mm)	T-class	Nr. LED modules	Weight (Kg)
<b>Ta 50°C</b>									
080852	BERGER-N-LED-2,21-T50-30-36600-4K-3M, IP66	29812	204	146	-20°C/50°C	620x285x190	T6	3	14
080806	BERGER-N-LED-2,21-T50-60-36600-4K-3M, IP66	32252	204	158	-20°C/50°C	620x285x190	T6	3	14
080807	BERGER-N-LED-2,21-T50-90-36600-4K-3M, IP66	32726	204	160	-20°C/50°C	620x285x190	T6	3	14
080853	BERGER-N-LED-2,21-T50-AS-36600-4K-3M, IP66	29159	204	143	-20°C/50°C	620x285x190	T6	3	14
080808	BERGER-N-LED-2,21-T50-WO-36600-4K-3M, IP66	31659	204	155	-20°C/50°C	620x285x190	T6	3	14
<b>Ta 60°C</b>									
080860	BERGER-N-LED-2,21-T60-30-26200-4K-3M, IP66	21603	144	150	-20°C/60°C	620x285x190	T5	3	14
080818	BERGER-N-LED-2,21-T60-60-26200-4K-3M, IP66	23408	144	163	-20°C/60°C	620x285x190	T5	3	14
080819	BERGER-N-LED-2,21-T60-90-26200-4K-3M, IP66	23622	144	164	-20°C/60°C	620x285x190	T5	3	14
080861	BERGER-N-LED-2,21-T60-AS-26200-4K-3M, IP66	21060	144	146	-20°C/60°C	620x285x190	T5	3	14
080820	BERGER-N-LED-2,21-T60-WO-26200-4K-3M, IP66	22899	144	159	-20°C/60°C	620x285x190	T5	3	14

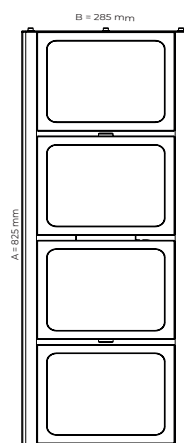
3M - 3 modules



Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta (°C)	Dimensions of lighting fixture A x B x C (mm)	T-class	Nr. LED modules	Weight (Kg)
<b>Ta -40°C</b>									
080876	BERGER-N-LED-2,21-FROST-30-26200-4K-3M, IP66	21603	144	150	-40°C/50°C	620x285x190	T6	3	14
080842	BERGER-N-LED-2,21-FROST-60-26200-4K-3M, IP66	23408	144	163	-40°C/50°C	620x285x190	T6	3	14
080843	BERGER-N-LED-2,21-FROST-90-26200-4K-3M, IP66	23622	144	164	-40°C/50°C	620x285x190	T6	3	14
080877	BERGER-N-LED-2,21-FROST-AS-26200-4K-3M, IP66	21060	144	146	-40°C/50°C	620x285x190	T6	3	14
080844	BERGER-N-LED-2,21-FROST-WO-26200-4K-3M, IP66	22899	144	159	-40°C/50°C	620x285x190	T6	3	14

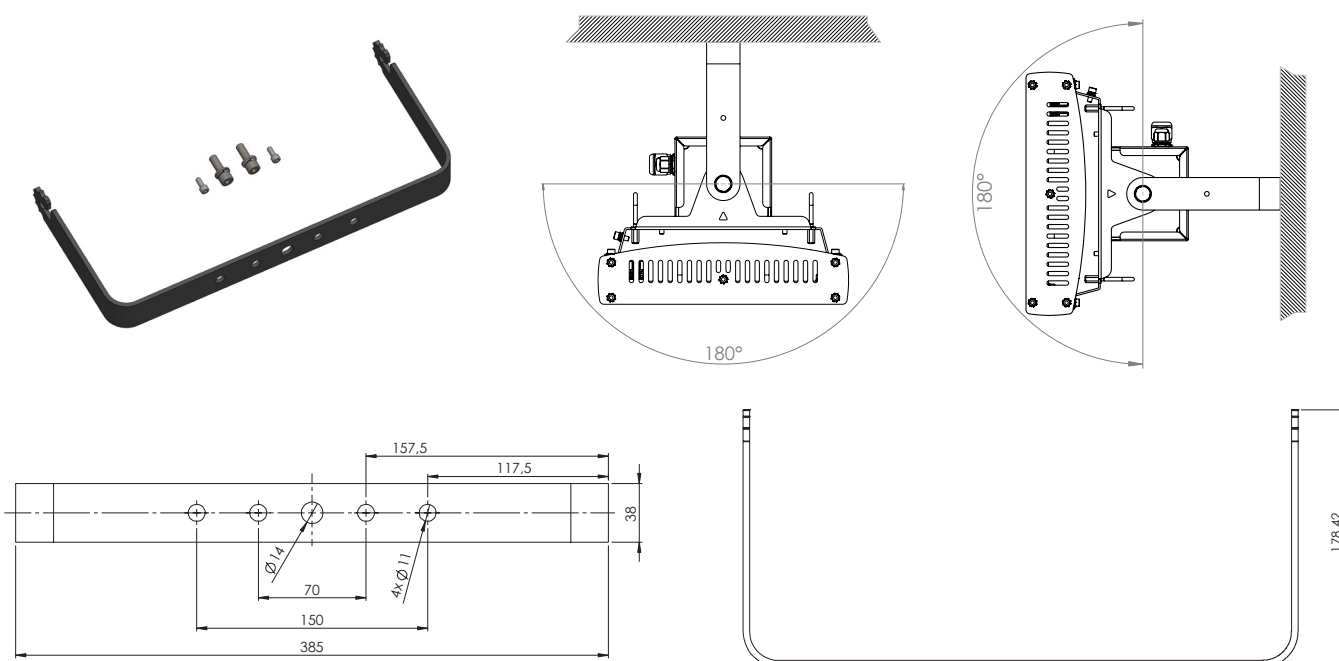
Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta (°C)	Dimensions of lighting fixture A x B x C (mm)	T-class	Nr. LED modules	Weight (Kg)																													
<b>Ta 40°C</b>																																						
080854	BERGER-N-LED-2,21-T40-30-48800-4K-4M, IP66	39749	287	138	-20°C/40°C	825x285x190	T6	4	17																													
080809	BERGER-N-LED-2,21-T40-60-48800-4K-4M, IP66	43002	287	150	-20°C/40°C	825x285x190	T6	4	17																													
080810	BERGER-N-LED-2,21-T40-90-48800-4K-4M, IP66	43634	287	152	-20°C/40°C	825x285x190	T6	4	17																													
080855	BERGER-N-LED-2,21-T40-AS-48800-4K-4M, IP66	38879	287	135	-20°C/40°C	825x285x190	T6	4	17																													
080811	BERGER-N-LED-2,21-T40-WO-48800-4K-4M, IP66	42212	287	147	-20°C/40°C	825x285x190	T6	4	17																													
<b>Ta 60°C</b>																																						
080862	BERGER-N-LED-2,21-T60-30-30200-4K-4M, IP66	24897	163	153	-20°C/60°C	825x285x190	T5	4	17																													
080821	BERGER-N-LED-2,21-T60-60-30200-4K-4M, IP66	26977	163	166	-20°C/60°C	825x285x190	T5	4	17																													
080822	BERGER-N-LED-2,21-T60-90-30200-4K-4M, IP66	27224	163	167	-20°C/60°C	825x285x190	T5	4	17																													
080863	BERGER-N-LED-2,21-T60-AS-30200-4K-4M, IP66	24271	163	149	-20°C/60°C	825x285x190	T5	4	17																													
080823	BERGER-N-LED-2,21-T60-WO-30200-4K-4M, IP66	26391	163	162	-20°C/60°C	825x285x190	T5	4	17																													
<b>Ta -40°C</b>																																						
080878	BERGER-N-LED-2,21-FROST-30-30200-4K-4M, IP66	24897	163	153	-40°C/50°C	825x285x190	T6	4	17																													
080845	BERGER-N-LED-2,21-FROST-60-30200-4K-4M, IP66	26977	163	166	-40°C/50°C	825x285x190	T6	4 </tr <tr> <td>080846</td> <td>BERGER-N-LED-2,21-FROST-90-30200-4K-4M, IP66</td> <td>27224</td> <td>163</td> <td>167</td> <td>-40°C/50°C</td> <td>825x285x190</td> <td>T6</td> <td>4</td> <td>17</td> </tr> <tr> <td>080879</td> <td>BERGER-N-LED-2,21-FROST-AS-30200-4K-4M, IP66</td> <td>24271</td> <td>163</td> <td>149</td> <td>-40°C/50°C</td> <td>825x285x190</td> <td>T6</td> <td>4</td> <td>17</td> </tr> <tr> <td>080847</td> <td>BERGER-N-LED-2,21-FROST-WO-30200-4K-4M, IP66</td> <td>26391</td> <td>163</td> <td>162</td> <td>-40°C/50°C</td> <td>825x285x190</td> <td>T6</td> <td>4</td> <td>17</td> </tr>	080846	BERGER-N-LED-2,21-FROST-90-30200-4K-4M, IP66	27224	163	167	-40°C/50°C	825x285x190	T6	4	17	080879	BERGER-N-LED-2,21-FROST-AS-30200-4K-4M, IP66	24271	163	149	-40°C/50°C	825x285x190	T6	4	17	080847	BERGER-N-LED-2,21-FROST-WO-30200-4K-4M, IP66	26391	163	162	-40°C/50°C	825x285x190	T6	4	17
080846	BERGER-N-LED-2,21-FROST-90-30200-4K-4M, IP66	27224	163	167	-40°C/50°C	825x285x190	T6	4	17																													
080879	BERGER-N-LED-2,21-FROST-AS-30200-4K-4M, IP66	24271	163	149	-40°C/50°C	825x285x190	T6	4	17																													
080847	BERGER-N-LED-2,21-FROST-WO-30200-4K-4M, IP66	26391	163	162	-40°C/50°C	825x285x190	T6	4	17																													

4M - 4 modules



### Accessories on request

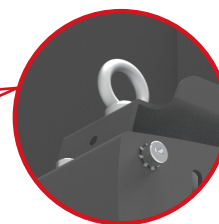
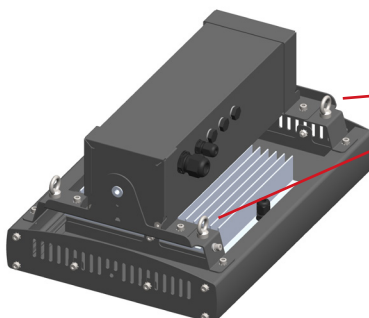
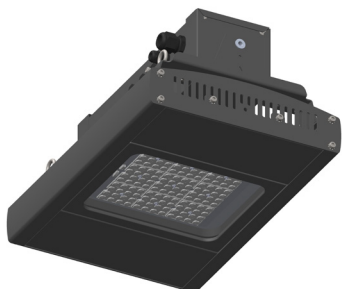
051229 - Adjustable wall mounting bracket BERGER





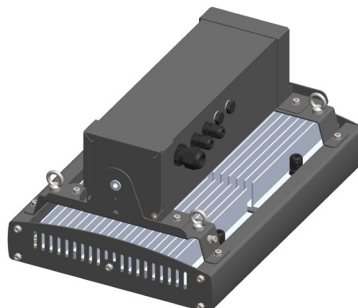
Light fixture variants according to the number of modules

1M - 1 module

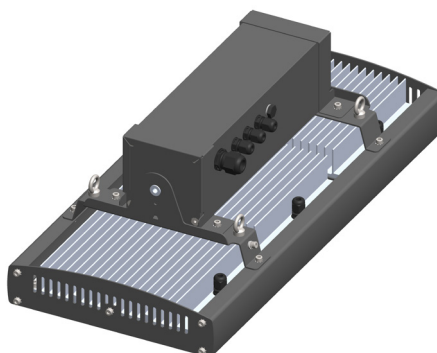
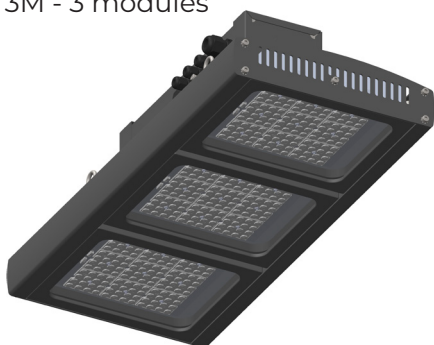


Standard equipment stainless steel eye-bolt

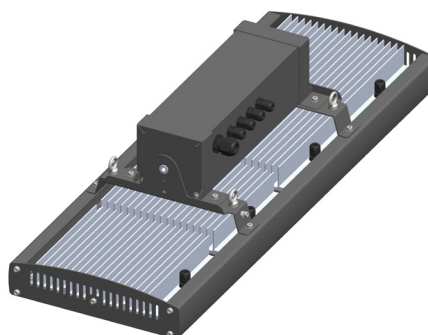
2M - 2 modules



3M - 3 modules



4M - 4 modules



On request

**DIM** – dimmable electronic ballast (DALI)

**2700 K/3000 K/4000 K/5000 K/5700 K/6500 K** - colour temperature

**MULTI** – 3 hour maintained emergency

Use of lighting fixtures in areas with danger of explosion	Marking of external influences	Area classification	
		Marking	Directive
Danger of explosion of flammable dust	BE3N1	ZONE 21, 22	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ZONE 2	ČSN EN 60079-14, ČSN EN 60079-10-1





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