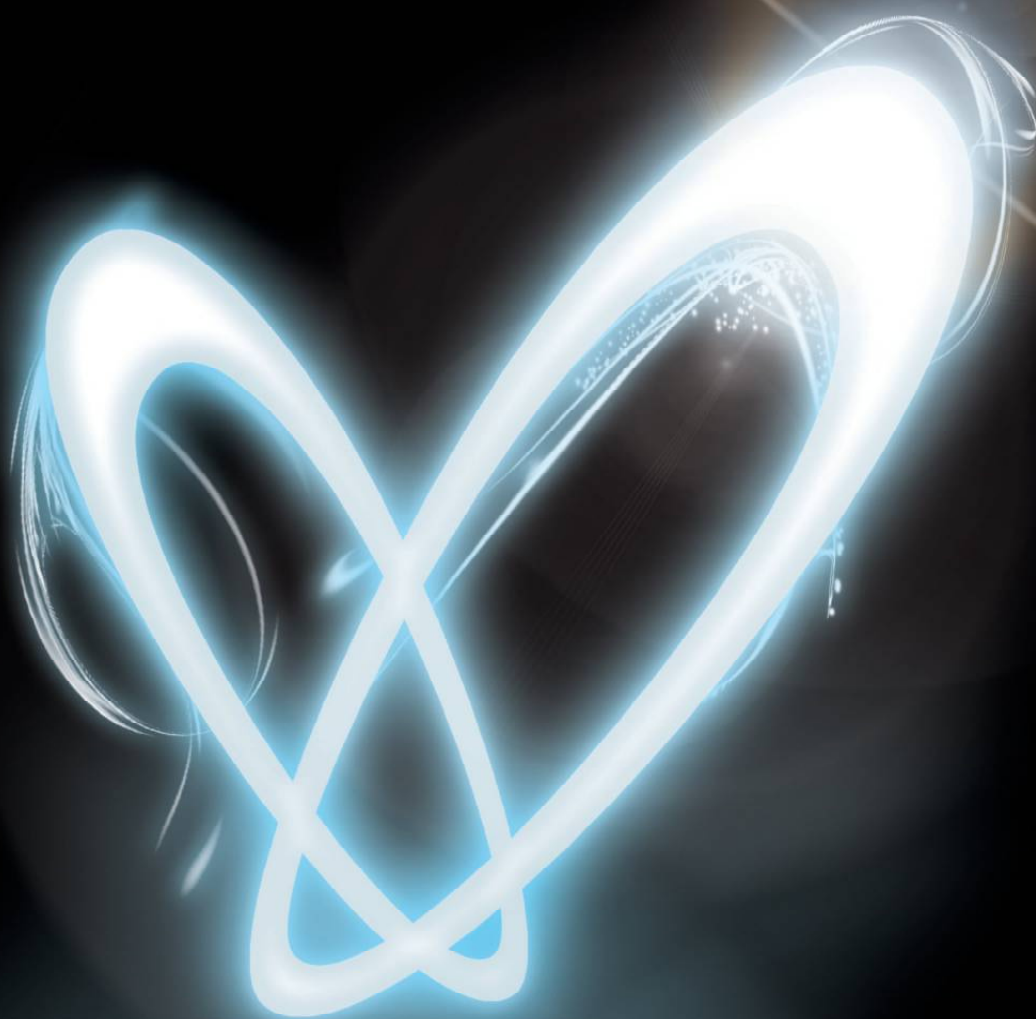




Zone 1/21 LED

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

December 2021



NOTES

[illegible]



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



DS-EX

Photocell Sensor



MWS-EX

High Frequency Motion Sensor



EXTRA-Ex-LED

IP 66 / Ex zone 1, 21

5 year warranty



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 mm²

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.

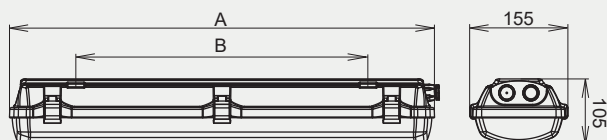
Calculated lifetime – LED modules:

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 IIIC T67°C Db

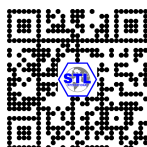


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A (mm)	Mounting spacing B (mm)	Equivalent**	Weight (kg)
050630	EXTRA-Ex-LED-OP-2750-218-4K	2345	16	147	50	670	460	2x18W	3,4
050610	EXTRA-Ex-LED-OP-4000-218-4K	3139	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

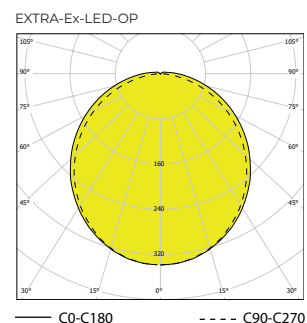
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

* 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



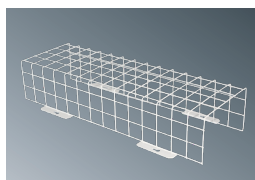
051131 Cable suspension EXTRA-2x (3m)



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		Accessories for armoured cable M20		Nickel-plated accessories M20	
008060	Plastic cable gland Ex M20x1.5	008052	Cable gland BIMED M20x1.5 ORION UNIVERSAL (8+/- 0.5Nm)	008092	Cable gland WISKA EMSKE20 M20x1.5 Ex-nickel-plated brass (8 Nm)
007047N	Flat sealing ring EPDM 27x18.5x1.5 mm	008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass	008093	Nut WISKA EMMU20 M20x1.5 - nickel-plated brass
008090	Plastic sealing plug Ex M20x1.5	008093	Nut WISKA EMMU20 M20x1.5 -nickel-plated brass	008091	Sealing plug WISKA EMVS20 M20x1.5 Ex-nickel-plated brass
008097	Plastic nut WISKA EMUG 20 M20x1.5	007047N	Flat sealing ring EPDM 27x18.5x1.5 mm	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 mm²

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	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	BE3N1	ZONE 1.2	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

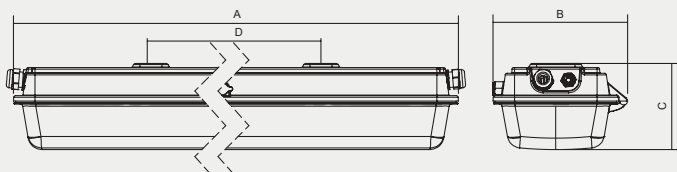
Fastening: Direct surface ceiling or wall mounting, ceiling mounting via set of stainless steel ceiling brackets, pole mounting via set of pole brackets, suspension mounting via set of suspension brackets.

Connection: Screwless three-pole terminal block, maximum diameter of wires 4 mm²

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

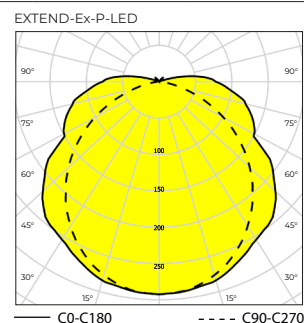


Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Equivalent**	Weight (kg)
053275	EXTEND-Ex-P-LED-D-2750-218-4K	2224	16	139	55*	728x244x156	570	1x36W/2x18W	5,06
053260	EXTEND-Ex-P-LED-D-4000-218-4K	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 mm²

3000/4000/6000K - colour temperature

Standard 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

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 / zone 1, 21

5 year warranty

SILICONE FREE



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 mm²

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

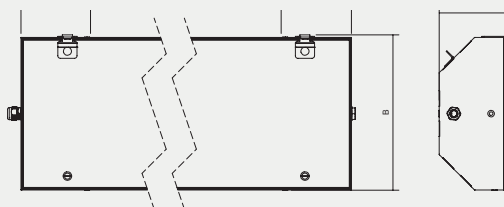
PITBUL-Ex-LED-WOD

⊗ 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

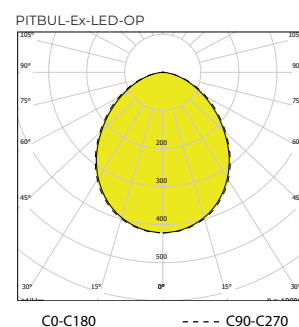
⊗ II 2D Ex tb op is IIC T67°C Db



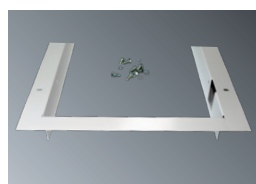
Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Equivalent*	Weight (kg)
053684	PITBUL-Ex-LED-OP-D-2750-218-4K	2377	16	149	60	703x310x142	450	3x18W	7,7
053700	PITBUL-Ex-LED-OP-D-4000-218-4K	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
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.



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)
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053940	Set of adjustable brackets PITBUL
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004642	Suspension bracket DIN 580 M8 - 1 pc
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051146	Pole bracket PITBUL (for Ø 50 mm)
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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

Accessories for armoured cable M25

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

Accessories M25

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



008052,008056



008092



008061

Marking system and overview of approved variants of lighting fixtures

PITBUL-Ex-LED-XXXX-YYY-WOD	- without disconnector
PITBUL-Ex-LED-XXXX-YYY-D	- with disconnector
PITBUL-Ex-LED-XXXX-YYY-2D	- single-phase through wiring connection
PITBUL-Ex-LED-XXXX-YYY-1F	- three-phase through wiring connection
PITBUL-Ex-LED-XXXX-YYY-3F	- three phase continuous connection

XXXX indicates luminous flux intensity 4000/8000/16000
YYY indicates type of lighting fixture housing
218/236/418/436

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 mm²

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

Stadard order number	MULTI-1,5H	MULTI-3H	DALI	1F	3F	FROST*	EM
053700	053708	053704	X	053700 1F	053700 3F	053690	053712 PITBUL-Ex-Em-LED-OP-600-218-4K
053701	053709	053705	X	053701 1F	053701 3F	053691	053713 PITBUL-Ex-Em-LED-OP-900-236-4K
053702	053710	053706	X	053702 1F	053702 3F	053692	053714 PITBUL-Ex-Em-LED-OP-400-218-4K
053703	053711	053707	X	053703 1F	053703 3F	053693	053715 PITBUL-Ex-Em-LED-OP-500-236-4K

* lighting fixtures suitable for ambient temperatures -40°C

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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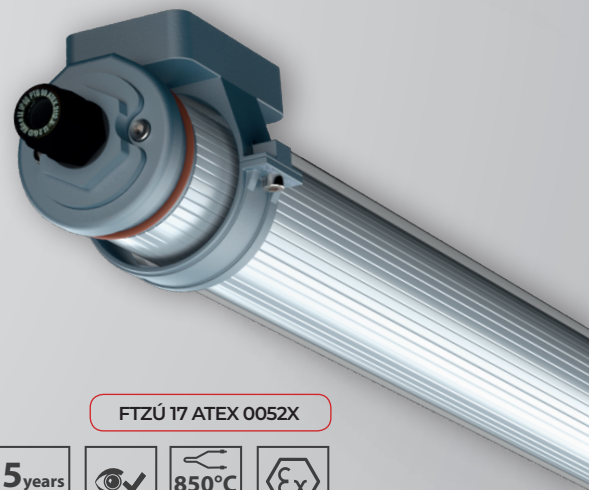
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AQUA-70-Ex-LED

IP 66 / IP 68 / zone 1, 21

5 year warranty



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

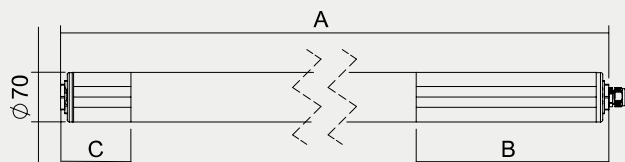
⊗ II 2G Ex db eb mb op is IIC T4 Gb

⊗ 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

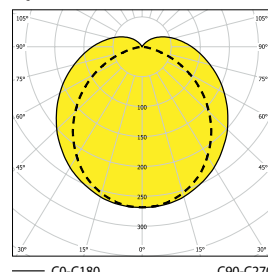
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

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



SAFE answers to HAZARDOUS questions

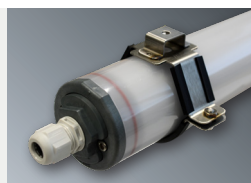
AQUA-70-Ex-LED



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



Direct mounting

064898	Stainless steel mounting bracket AQUA-70 (1 pc) for direct surface mounting
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Direct mounting

053627	Stainless steel mounting bracket AQUA-70 (1 pc)
--------	---



Direct mounting

053629	Mounting PC bracket AQUA-70, dark grey (1pc)
--------	--

Suspended mounting

051127	Cable suspension AQUA-70 (2 pcs)
053629	Mounting PC bracket AQUA-70, dark grey (1pc)

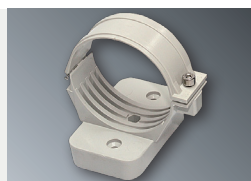


Direct mounting

053628	Stainless steel mounting bracket AQUA-70 (1 pc)
--------	---

Suspended mounting

051134	Cable suspension AQUA-70 (2 pcs) stainless steel
053628	Stainless steel mounting bracket AQUA-70 (1 pc)



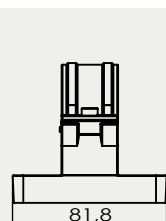
Direct mounting

053630	Mounting PC bracket AQUA-70, bright grey (1pc)
--------	--

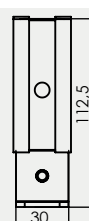
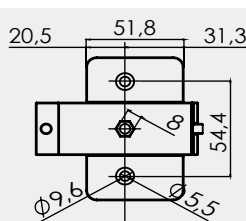
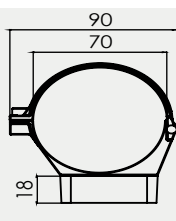
Suspended mounting

051127	Cable suspension AQUA-70 (2 pcs)
053630	Mounting PC bracket AQUA-70, bright grey (1pc)

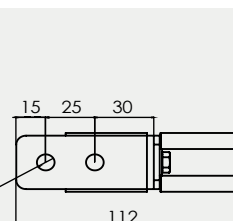
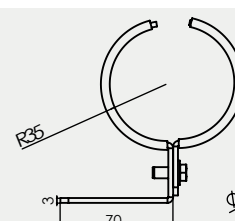
Lighting fixture detail



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 mm²

Standard 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	BE3N1
Danger of explosion of flammable gases and vapours	BE3N2

Marking of external influences

BE3N1	ZONE 21.22
BE3N2	ZONE 1.2

Area classification

Marking	Directive
ZONE 21.22	ČSN EN 60079-14, ČSN EN 60079-10-2
ZONE 1.2	ČSN EN 60079-14, ČSN EN 60079-10-1

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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 mm²

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

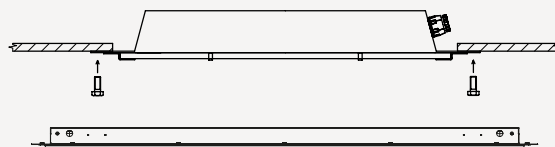
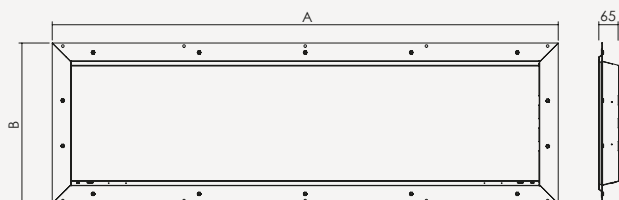
Calculated life time of LED modules: L80B10 ta35 – 70 000 h
L70B10 ta35 – 100 000 h

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

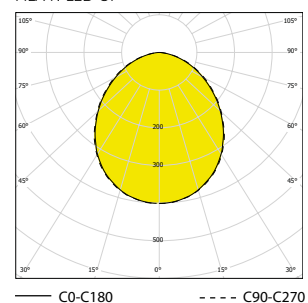
II 3G Ex nR IIC T6 Gc
 II 3D Ex tc IIIC T70°C Dc



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)
2, 21								
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%

FILA-N-LED-OP



— C0-C180 - - - C90-C270

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 2.5mm²

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

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DS-Ex

IP 66



Application: Photocell sensor for hazardous area

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T80°C Db IP66 IK08

AmbT: -20°C to +55°C

Voltage: 220-240V AC

Switching load: 400W (Capacitive) or 800W (Resistive)

Control: Adjustable threshold (DIP switches)
2, 10, 30, 50, 100, 300, 500 Lux

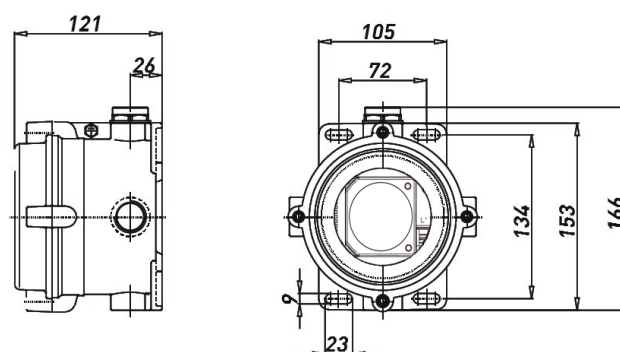
Termination: L, Ls, Nx2, PE; max. 4mm²
Loop in/Loop out

Entries: 3 x M25

Weight: 2kg

Optional:

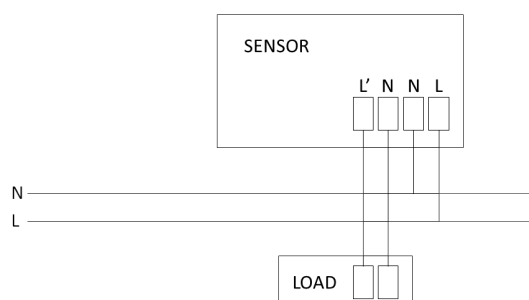
- Adjustable mounting bracket

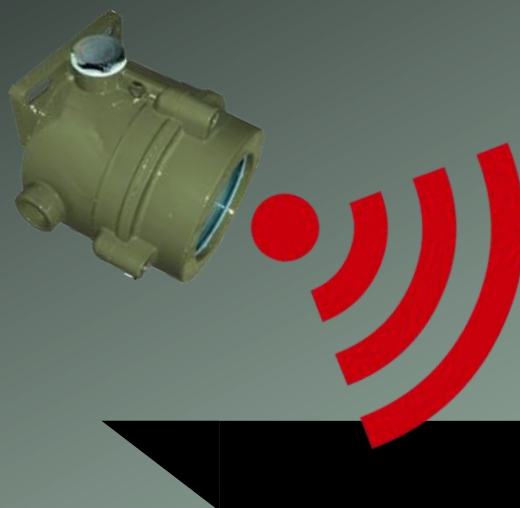


Daylight Threshold

	1	2	3	4	5	6	
I	●	●	●	●	●	●	Disable
II	○	○	○	○	○	○	2 Lux
III	○	○	○	○	○	○	10 Lux
IV	○	○	○	○	○	○	30 Lux
V	○	○	○	○	○	○	50 Lux
VI	○	○	○	○	○	○	100 Lux
VII	○	○	○	○	○	○	300 Lux
VIII	○	○	○	○	○	○	500 Lux

ON/OFF Function





MWS-Ex

IP 66



Application: High frequency motion sensor for hazardous area

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling/Wall mounted

ATEX certified: Zone 1/21 II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db IP66 IK08

AmbT: -20°C to +55°C

Voltage: 220-240V AC

Switching load: 400W (Zero crossing detection circuit)

Motion detection sensitivity: 0.3...3m/s with synchronised control

Control: -Sensitivity control up to 12m dia.(Adjustable)
- Adjustable ON/OFF timer, 5s - 30min
- Photocell: Freely adjustable threshold

Termination: L, Ls, Nx2, PE; max. 4mm²
Loop in/Loop out

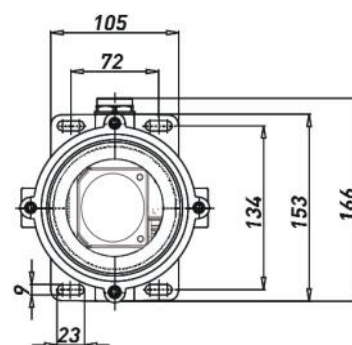
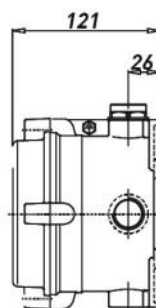
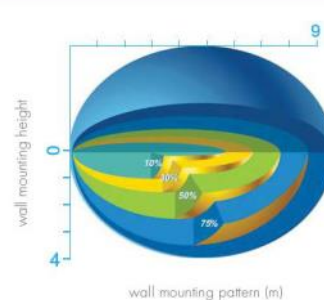
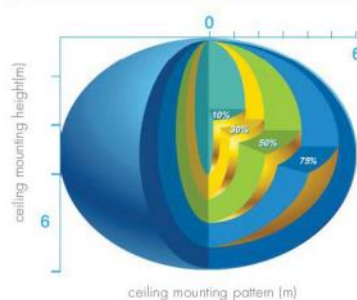
Entries: 3 x M25

Weight: 2kg

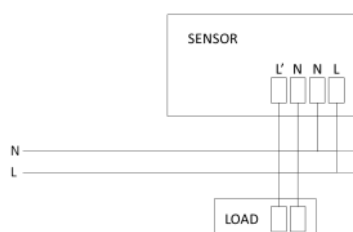
Optional:

- Adjustable mounting bracket

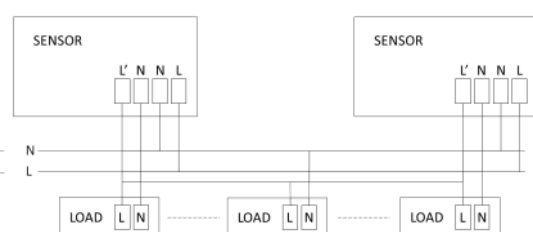
Detection Pattern



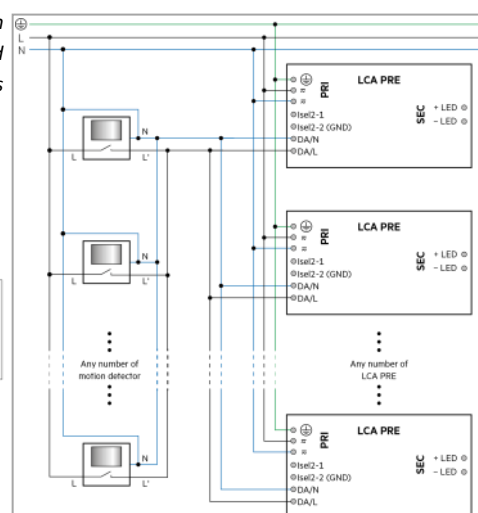
ON/OFF Function



Synchronised Control Function



**corridorFunction
with DALI controlled
luminaires**





MWS-Ex-DC

IP 66



Application: High frequency motion sensor for hazardous area

Body: Aluminium alloy with powder paint finish

Diffuser: Borosilicate glass

Mounting: Ceiling/Wall mounted

ATEX certified: Zone 1/21

II 2G Ex d IIC T6 Gb

II 2D Ex tb IIIC T80°C Db IP66 IK08

AmbT: -30°C to +55°C

Input voltage: 12-48Vdc

Switching load: 12V <10A, 24V <5A, 48V <2A
(Output voltage = Input voltage)

Motion detection sensitivity: 0.3...3m/s with synchronised control

Control: - Sensitivity control up to 8m dia.(Adjustable)
- Adjustable ON/OFF timer, 5s - 30min
- Photocell: Adjustable threshold

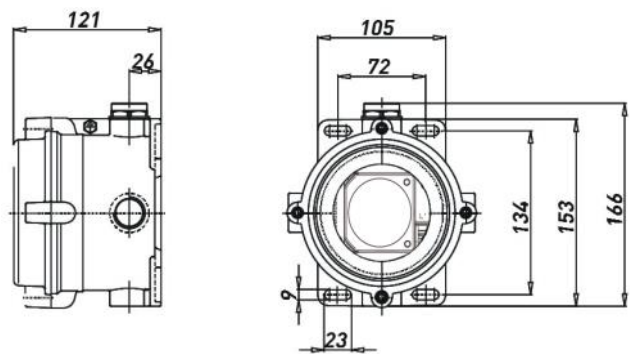
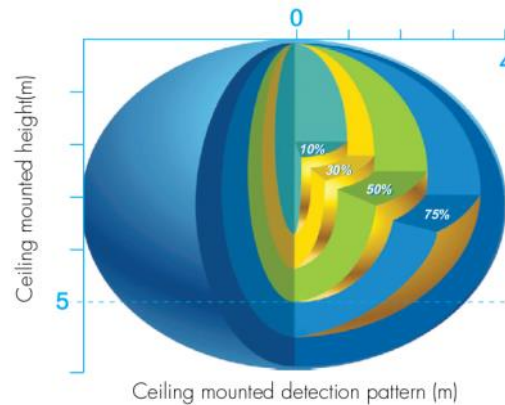
Termination: +/- input, +/- output, PE; max. 4mm²

Entries: 3 x M25

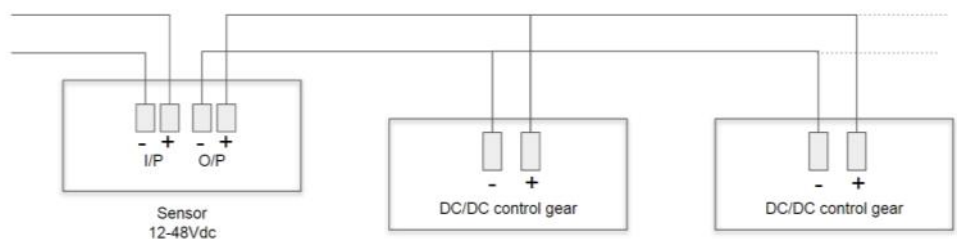
Weight: 2kg

Optional:

- Adjustable mounting bracket



ON/OFF Function





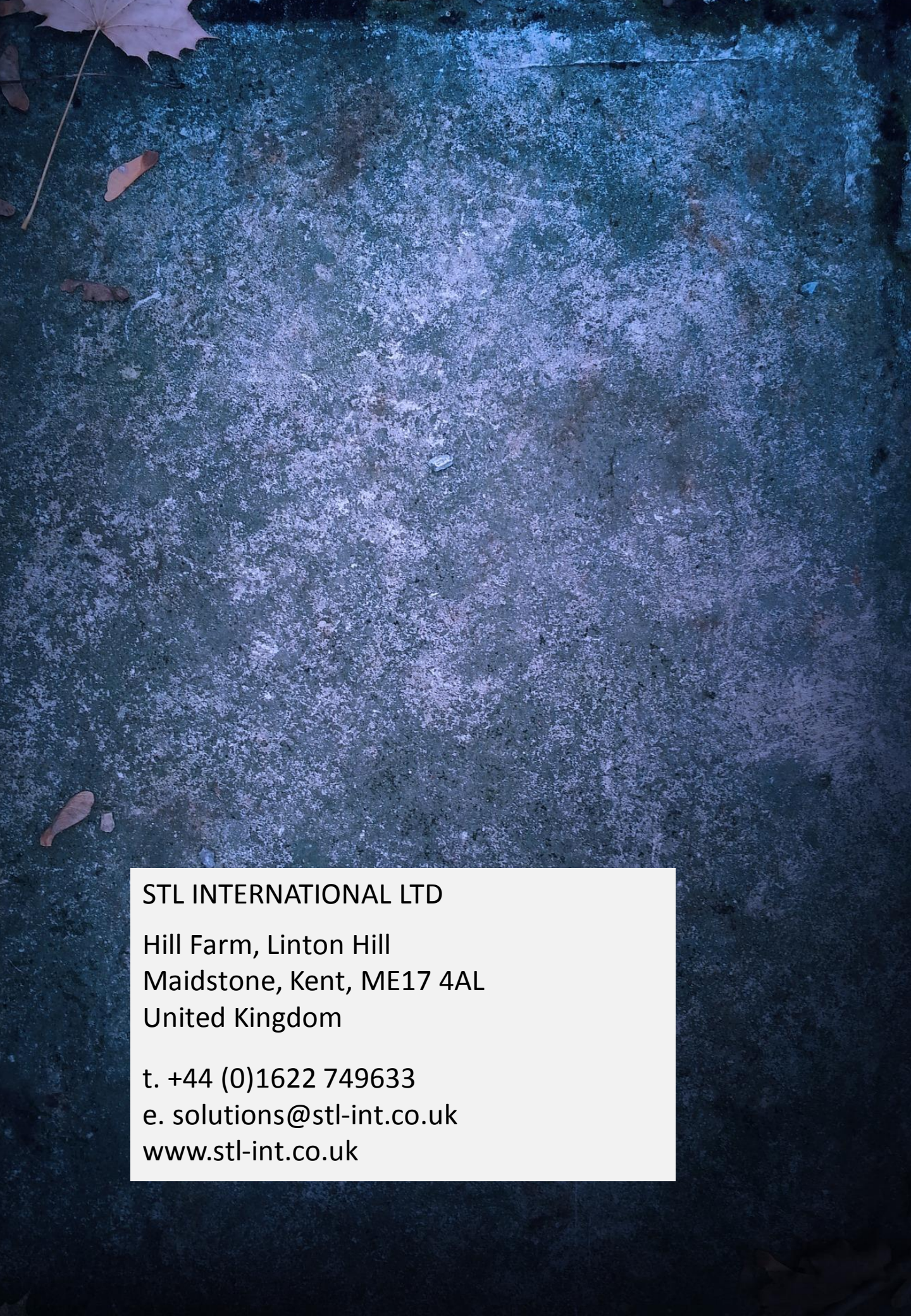
NOTES

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NOTES

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



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