



Zone 2/22 LED



NOTES

[illegible]



BASET-N-LED

Bulkhead-PC



EXTRA-N-LED

Linear_PC



SALUKA-N-LED

Linear_Metal/304SS/Glass



NORD-N-LED

Recessed_Metal/304SS/Glass



FILA-N-LED

Recessed_Metal/304SS/Glass



PITBUL-N-LED

Highbay_Metal/304SS/Glass



STR-N-LED

Streetlight_Alu/Glass



GREY-N-LED

Floodlight_Alu/Glass



BASET-N-LED

IP 66 / Ex zone 2, 22

5 year warranty



FTZÚ 18 ATEX 0048X

Application: Dustproof lighting fixture BASET-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 18 ATEX 0048X).

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

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

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

Diffuser: PC (polycarbonate) opal

Fastening: Surface ceiling or wall mounting by means of two self-locking fastening brackets (standard equipment), suspension by means of wire or cable suspenders.

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

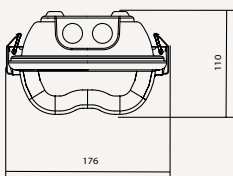
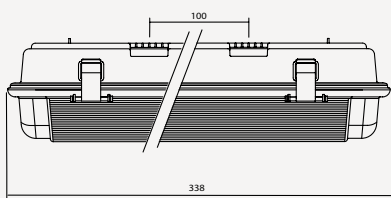
Standard equipment 1 pc EX cable gland M20 for diameter of cable 7-12mm including sealing, 3x EX sealing plug, 2 pcs fastening bracket, set of pictograms (only for emergency versions - MULTI / Em)

Calculated lifetime – LED modules: L80B10 ta30 – 60 000h
L70B10 ta30 – 90 000h

BASET-N-LED, MULTIBASET-N-LED, BASET-N-LED-Em

Ⓢ II 3G Ex nR IIC T6 Gc

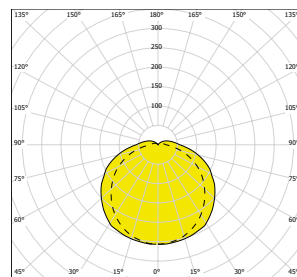
Ⓢ II 3D Ex tc IIIC T65°C Dc



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)	Weight (kg)
051945	BASET-N-LED-1R-1300-4K	1160	9	129	50	338 x 176 x 110	0,8
051944	BASET-N-LED-1R-1500-4K	1312	10	131	50	338 x 176 x 110	0,8
051943	BASET-N-LED-1R-1800-4K	1604	13	123	50	338 x 176 x 110	0,8
051942	BASET-N-LED-2R-2250-4K	1941	15	130	40	338 x 176 x 110	0,8
051941	BASET-N-LED-2R-2600-4K	2243	18	125	40	338 x 176 x 110	0,9
051940	BASET-N-LED-2R-2950-4K	2537	20	127	40	338 x 176 x 110	1,2

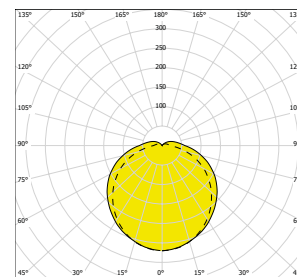
Tolerance of luminous flux and power input of the lighting fixture +/- 10%

BASET-N-LED-2R



— C0-C180 --- C90-C270

BASET-N-LED-1R



— C0-C180 --- C90-C270

Accessories on request



Suspended mounting

051131 Cable suspension VIPET (2pcs)



Direct mounting

061066 POINTER wall bracket



Colour coated diffuser

Translucent RED

Standard accessories M20

008060	Cable gland Ex M20x1.5
008097	Plastic nut WISKA EMUG 20 M20x1.5
008090	Sealing plug Ex M20x1.5
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



On request

EM-1h/3h - non-maintained emergency lighting

MULTI-1h/3h - maintained emergency lighting

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

2.7K-6.5K - colour temperature

GESIS - possibility to equip lighting fixtures with connectors

DIM - dimmable electronic ballast (DALI, DSI, 1-10V)

COLOUR - RED, GREEN, AMBER, YELLOW or BLUE translucent coated diffuser

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F	RN	EM
051945	051948	051951	051945 DALI	X	X	051935	051952
051944	051947	051950	051944 DALI	X	X	051934	051953
051943	051946	051949	051943 DALI	X	X	051933	
051942	X	X	051942 DALI	X	X	051932	
051941	X	X	051941 DALI	X	X	051931	
051940	X	X	051940 DALI	X	X	051930	

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 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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EXTRA-N-LED

IP 66 / zone 2, 22

5 year warranty



FTZÚ 16 ATEX 0102X



Application: Dustproof lighting fixture EXTRA-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 16 ATEX 0102X).

Ballast: EP – electronic 220 – 240 V, 50/60 Hz, 220 – 240 V, 0 Hz DC

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

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

Diffuser: PC (polycarbonate) opal

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 2.5 mm²

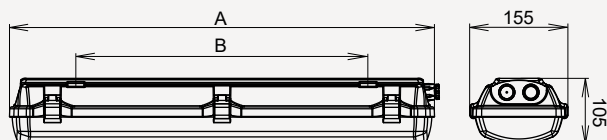
Standard equipment: 1pc EX plastic cable gland M20x1.5 (as a standard for diameter of cable 7-12mm), 1 pc EX plastic plug M20x1.5, 2 pcs stainless steel fastening bracket-AISI 304, stainless clips, double cable clip.

Calculated lifetime – LED modules: L80B10 ta30 – 70 000h, L70B10 ta30 – 100 000h

EXTRA-N-LED, MULTIEXTRA-N-LED, EXTRA-N-LED-Em

Ⓜ II 3G Ex nR IIC T6 Gc

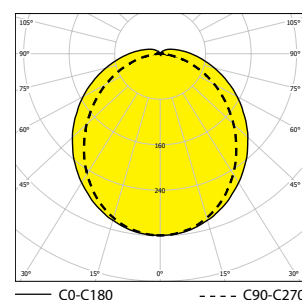
Ⓜ II 3D Ex tc IIIC T62°C Dc



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)	Weight (kg)
4000K								
055260	EXTRA-N-LED-1250-218-4K	1089	8	136	40	670	460	1,4
055261	EXTRA-N-LED-2500-218-4K	2177	16	136	45	670	460	1,4
055262	EXTRA-N-LED-5000-218-4K	4310	33	131	40	670	460	1,5
055263	EXTRA-N-LED-2500-236-4K	2227	17	131	45	1280	880	2,3
055264	EXTRA-N-LED-5000-236-4K	4454	33	135	50	1280	880	2,5
055265	EXTRA-N-LED-10000-236-4K	8621	66	131	40	1280	880	2,7
055266	EXTRA-N-LED-3750-258-4K	3341	25	134	45	1580	1000	2,9
055267	EXTRA-N-LED-7500-258-4K	6682	50	134	45	1580	1000	2,8
055268	EXTRA-N-LED-12550-258-4K	10790	80	135	35	1580	1000	3,2

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

EXTRA-N-LED



Accessories on request

	Suspended mounting			064643 Set of wall brackets - angle 45° EXTRA (2 pcs)
	051131	Cable suspension-EXTRA-2x (3m)		
	Suspended mounting			051157 Pole bracket EXTRA (for Ø 50 mm)
	001696	Wire suspension EXTRA (Chain not included)		
	zpswc10	Zinc plated steel welded chain Inside link dim.: 13 x 4mm dia.1.6mm, 10m bag Max. load: 15kg		001748 LAK Protective cage EXTRA 18W 001749 LAK Protective cage EXTRA 36W 001750 LAK Protective cage EXTRA 58W
	zpsml10	Zinc plated steel mending link Inside link dim.: 22 x 7mm dia.3.5mm, 10 per bag Max. load: 85kg		
	zpsch10	Zinc plated steel ess hook Length: 34mm Inside eye dim.: 11mm dia.3.0mm, 10 per bag		

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



On request

DIM – dimmable electronic ballast (DALI,DSI, 1-10V)

GESIS – possibility to equip lighting fixtures with connectors

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

EM-1/3 - non-maintained emergency lighting

MULTI-1/3 - maintained emergency lighting

2.7K-6.5K - colour temperature

1/3 F - single-phase or three phase through wiring

maximum diameter of wires 2.5 mm²

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F	EM	
055260	055270	055276	055460	055260 1F	055260 3F	055282	EXTRA-N-LED-Em-500-218-4K
055261	055271	055277	055461	055261 1F	055261 3F	055283	EXTRA-N-LED-Em-500-236-4K
055262	X	X	055462	055262 1F	055262 3F	055284	EXTRA-N-LED-Em-500-258-4K
055263	055272	055278	055463	055263 1F	055263 3F	055285	EXTRA-N-LED-Em-500-218-4K
055264	055273	055279	055296	055264 1F	055264 3F	055286	EXTRA-N-LED-Em-500-236-4K
055265	X	X	055464	055265 1F	055265 3F	055287	EXTRA-N-LED-Em-500-258-4K
055266	055274	055280	055465	055266 1F	055266 3F		
055267	055275	055281	055249	055267 1F	055267 3F		
055268	055288*	055289*	055269	055268 1F	055268 3F		

MULTIEXTRA-N-LED-10600-258-4K - max. ta 30°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 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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SALUKA-N-LED

IP 66 / Ex zone 2, 22

5 year warranty



FTZÚ 17 ATEX 0027X



Application: Dustproof lighting fixture SALUKA-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0027X).

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

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

Housing: White painted steel sheet RAL 9003

Diffuser: Clear hardened safety glass

Reflector: White painted steel sheet RAL 9003

Fastening: Direct surface wall or ceiling mounting, ceiling mounting by means of ceiling brackets or adjustable brackets, wall mounting by means of wall arm brackets, pole mounting by means of pole brackets, suspension via set of suspension hooks (standard equipment)

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

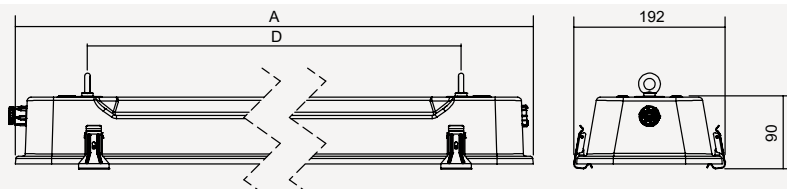
Standard equipment: 1 pc M20 cable gland for diameter of cable 7-12 mm, 1 pc M20 sealing plug, 2 pcs suspending hook, 2 pcs rubber gasket

Calculated lifetime – LED modules: L80B10 ta40 – 70 000h, L70B10 ta40 – 100 000h

SALUKA-N-LED, MULTISALUKA-N-LED, SALUKA-N-LED-Em

Ⓜ II 3G Ex nR IIC T6 Gc

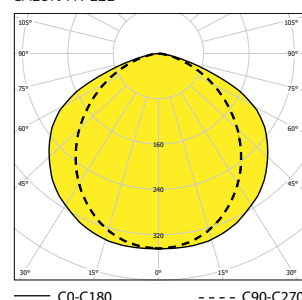
Ⓜ II 3D Ex tc IIIC T65°C Dc



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)	Weight (kg)
056350	SALUKA-N-LED-1250-218-4K	954	8	119	45	705x192x90	510	3,9
056352	SALUKA-N-LED-5000-218-4K	3755	33	114	45	705x192x90	510	3,9
056351	SALUKA-N-LED-2500-218-4K	1908	16	119	45	705x192x90	510	3,8
056353	SALUKA-N-LED-2500-236-4K	1952	17	115	60	1305x192x90	1110	7,1
056354	SALUKA-N-LED-5000-236-4K	3904	33	118	60	1305x192x90	1110	7,1
056355	SALUKA-N-LED-10000-236-4K	7510	66	114	45	1305x192x90	1110	7
056356	SALUKA-N-LED-3750-258-4K	2928	25	117	45	1605x192x90	1410	8,1
056357	SALUKA-N-LED-7500-258-4K	5856	50	117	45	1605x192x90	1410	8,1
056358	SALUKA-N-LED-12550-258-4K	9399	80	117	40	1605x192x90	1410	8,3

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

SALUKA-N-LED



Accessories on request



051139 Set of ceiling brackets SALUKA (2 pcs)



051145 Pole bracket SALUKA stainless steel (for Ø 50 mm)

051146 Pole bracket PITBUL/SALUKA (pro Ø 50 mm)

064018 Pole bracket SALUKA stainless steel (for Ø 40 mm)



063754 Set of adjustable brackets SALUKA (2 ks)



051147 Stainless steel wall arm bracket SALUKA 60° (1 pc)

Standard accessories M20

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



On request

DIM – dimmable electronic ballast (DALI,DSI, 1-10V)

GESIS – possibility to equip lighting fixtures with connectors

MULTI-1/3 - maintained emergency lighting

EM-1/3 - non-maintained emergency lighting

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

2.7K-6.5K - colour temperature

1/3 F - single-phase or three phase through wiring connection, maximum diameter of wires 1.5 mm²

NEREZ – (in case of STAINLESS STEEL version its declared

for ambient temperature decreased about 5-10°C)

Stadard order number	MULTI-1H	MULTI-3H	DALI	1F	3F	EM
056350	056360	056366	056390	056350 1F	056350 3F	056400
056351	056361	056367	056391	056351 1F	056351 3F	056401
056352	X	X	056392	056352 1F	056352 3F	056402
056353	056362	056368	056393	056353 1F	056353 3F	056403
056354	056363	056369	056394	056354 1F	056354 3F	056404
056355	056407*	056410*	056395	056355 1F	056355 3F	056405
056356	056364	056370	056396	056356 1F	056356 3F	
056357	056365	056371	056397	056357 1F	056357 3F	
056358	056408*	056411*	056398	056358 1F	056358 3F	

* contact the technical support

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

Area classification

Marking

ZONE 22

ZONE 2

Directive

ČSN EN 60079-14, ČSN EN 60079-10-2

ČSN EN 60079-14, ČSN EN 60079-10-1

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Lighting fixtures for areas with danger of explosions



NORD-N-LED

IP 66 / Ex zone 2, 22

5 year warranty



Application: The dustproof recessed lighting fixture NORD-N-LED with splash water resistance is designed for areas with danger of explosions. They can be used in paint boxes and paint shops. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0026X).

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

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

Housing: White painted steel sheet RAL 9003

Diffuser: OP – opal hardened safety glass in a frame

Reflector: White painted steel sheet RAL 9003

Fastening: Recessed ceiling mounting (it is necessary to ensure sufficiently strong supporting base)

Connection: Screwless three-pole terminal block, max. diameter of wires 2.5 mm²

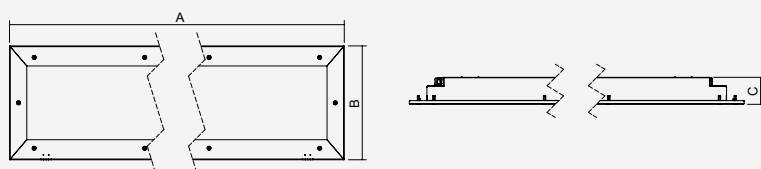
Standard equipment: 2 pcs EX M20 cable glands for diameter of cable 7-12mm and 3 pcs EX M20 sealing plug

Calculated lifetime – LED modules: L80B10 ta35 – 70 000h
L70B10 ta35 – 100 000h

NORD-N-LED, MULTINORD-N-LED, NORD-N-LED-Em

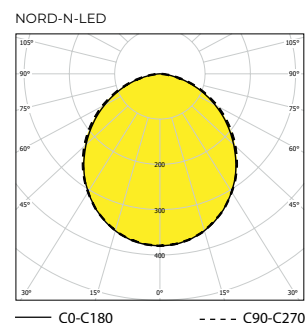
Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T63°C Dc



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 hole (mm)	Weight (kg)
055880	NORD-N-LED-5000-218-4K	4428	33	134	55	767x386x92	720x330	9,5
055881	NORD-N-LED-10000-236-4K	8857	66	134	50	1367x386x92	1320x330	16,3
055882	NORD-N-LED-15000-258-4K	13286	100	133	45	1667x386x92	1620x330	20,9
055883	NORD-N-LED-10000-418-4K	8827	66	134	45	767x536x92	720x480	13,4
055884	NORD-N-LED-18300-436-4K	15766	116	136	40	1367x536x92	1320x480	22,4
055885	NORD-N-LED-29000-458-4K	25050	186	135	40	1667x536x92	1620x480	27,7

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



SAFE answers to HAZARDOUS questions

Accessories on request

Standard accessories M20

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

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

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

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



On request

DIM – dimmable electronic ballast (DALI)

2.7K-6.5K - colour temperature

EM-1h/3h - non-maintained emergency lighting

MULTI-1h/3h - maintained emergency lighting

1/3 F - single-phase or three phase through wiring connection, max. diameter of wires 2.5mm²

NEREZ – housing produced from stainless steel AISI 304 or AISI 316

(in case of the design STAINLESS, the ambient temperature lower by approximately 5-10°C)

RAL - other colour scale

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

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
055880	055886	055892	055880 DALI	055880 1F	055880 3F
055881	055887	055893	055881 DALI	055881 1F	055881 3F
055882	055888	055894	055882 DALI	055882 1F	055882 3F
055883	055889	055895	055883 DALI	055883 1F	055883 3F
055884	055890	055896	055884 DALI	055884 1F	055884 3F
055885	055891	055897	055885 DALI	055885 1F	055885 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 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



FILA-N-LED

IP 66 / zone 2, 21 / 2, 22

5 year warranty



FTZÚ 20 ATEX 0075X, FTZÚ 20 ATEX 0077X



Application: The dustproof recessed lighting fixture FILA-N-LED with splash water resistance is designed for 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 and FTZÚ 20 ATEX 0077X).

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

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: 1x M20 glands for cable diameter 7-12mm and 1x sealing plug

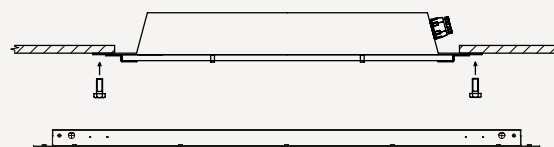
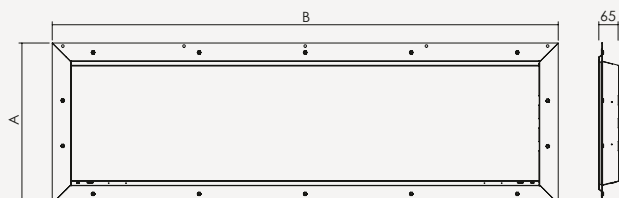
Calculated life time of LED modules: L80B10 ta35 – 70 000 h
L70B10 ta35 – 100 000 h

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

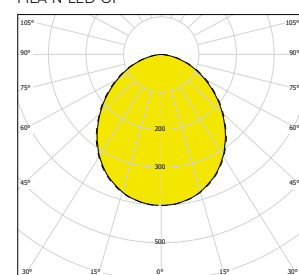
Ⓜ II 3G Ex nR IIC T6 Gc
Ⓜ II 3D Ex tc IIIC T70°C Dc



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)
050500	FILA-N-LED-2,21-OP-5000-218-4K	4 372	33	132	65	770x380x65	720x335	9,5
050501	FILA-N-LED-2,21-OP-10000-418-4K	8 847	66	134	50	770x530x65	720x485	16,3
050502	FILA-N-LED-2,21-OP-10000-236-4K	9362	66	142	45	1370x380x65	1320x335	20,9
050503	FILA-N-LED-2,21-OP-18300-436-4K	16 354	117	140	50	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

Accessories on request

Standard cable glands M20

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

Cable glands 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

Cable glands for armoured cable M25

008056	BIMED KBA 2M(25) nickel-plated 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

Standard cable glands 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

Nickel-plated brass cable glands

008092	Cable gland WISKA EMSKE20 M20x1,5 Ex – nickel-plated brass
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



On request

DIM – electronic dimming ballast (DALI)

EM-1,5h/3h - non-maintained emergency mode

MULTI-1,5h/3h - maintained emergency mode

1/3 F - single-phase or three-phase through wiring connection, max. conductor cross-section 2.5 mm²

NANO - lighting fixtures can be protected by a special nanolayer (hydrophobic, oleophobic or antibacterial protection)

Zone 2,22 - version for Zone 2,22

RAL - another paint colour design

NEREZ – housing made of stainless steel

3000/4000/6000K- colour temperature

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	ČSN EN 60079-14, ČSN EN 60079-10-2
Danger of explosion of flammable gases and vapours	BE3N2	ČSN EN 60079-14, ČSN EN 60079-10-1

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PITBUL-N-LED

IP 65 / zone 2, 22

5 year warranty



FTZÚ 17 ATEX 0129X



Application: Dustproof lighting fixture PITBUL-N-LED with splash water resistance designed for lighting of areas with danger of explosion. The lighting fixture is certified by FTZU Ostrava-Radvanice (certificate type FTZU 17 ATEX 0129X).

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

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

Housing: White painted steel sheet RAL 9003

Diffuser: Opal hardened safety glass

Fastening: Direct surface mounting by means of M8 screws, suspension via suspending brackets, recessed mounting via the frame, ceiling mounting via set of ceiling brackets, pole mounting via set of pole brackets, wall mounting via set of adjustable brackets.

Connection: Screwless three-pole terminal block, maximum diameter of wires 2.5 mm²

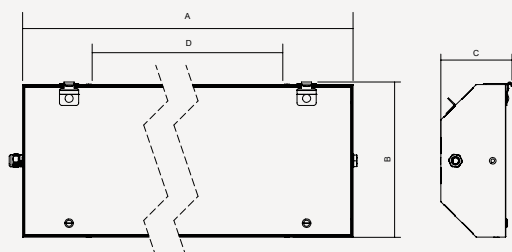
Standard equipment: 1pc EX plastic cable gland M20x1,5 for diameter of cable 7-12mm, 1pc EX plastic sealing plug

Calculated lifetime – LED modules: L80B10 ta35 – 70 000h, L70B10 ta35 – 100 000h

PITBUL-N-LED, MULTIPITBUL-N-LED, PITBUL-N-LED-Em

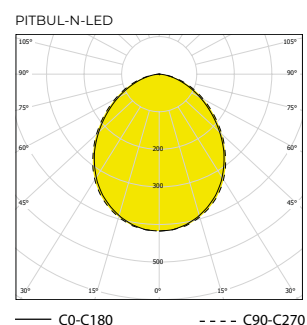
Ⓜ II 3G Ex nR IIC T6 Gc

Ⓜ II 3D Ex tc IIIC T63°C Dc



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)	Weight (kg)
053790	PITBUL-N-LED-OP-5000-218-4K	4470	35	128	65	703x310x142	450	9,1
053791	PITBUL-N-LED-OP-10000-236-4K	8940	70	128	55	1313x310x142	800	13,8
053792	PITBUL-N-LED-OP-15000-258-4K	13410	104	129	55	1613x310x142	1100	16,6
053793	PITBUL-N-LED-OP-10000-418-4K	8899	70	127	55	703x369x142	450	8,9
053794	PITBUL-N-LED-OP-18300-436-4K	15895	121	131	50	1313x369x142	800	16,1
053795	PITBUL-N-LED-OP-29000-458-4K	24845	195	127	45	1613x369x142	1100	19,6

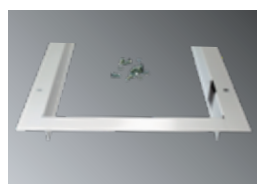
Tolerance of luminous flux and power input of the lighting fixture +/- 10%



SAFE answers to HAZARDOUS questions

Lighting fixtures for areas with danger of explosions

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



On request

DIM – dimmable electronic ballast (DALI,DSI, 1-10V)

GESIS – possibility to equip lighting fixtures with connectors

MULTI-1/3 - maintained emergency lighting

EM-1/3 - non-maintained emergency lighting

NANO – lighting fixtures can be protected by special nano-layer oleophobic or antibacterial protection)

2.7K-6.5K - colour temperature

RAL - other colour scale

1/3 F - single-phase or three phase through wiring connection, maximum diameter of wires 1.5 mm²

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)

Standard order number	MULTI-1H	MULTI-3H	DALI	1F	3F
053790	053530	053536	053542	053790 1F	053790 3F
053791	053531	053537	053543	053791 1F	053791 3F
053792	053532	053538	053544	053792 1F	053792 3F
053793	053533	053539	053545	053793 1F	053793 3F
053794	053534	053540	053546	053794 1F	053794 3F
053795	053535	053541	053547	053795 1F	053795 3F

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
BE3N2

Area classification

Marking	Directive
ZONE 22	ČSN EN 60079-14, ČSN EN 60079-10-2
ZONE 2	ČSN EN 60079-14, ČSN EN 60079-10-1

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STR-N-LED

5 year warranty

IP 66

LED streetlight for use in hazardous areas, zone 2/22, which can be supplied with a variety of lenses to suit the application.

Applications: Streetlighting, Area lighting

Body: Aluminium alloy, RAL 9005, black

Diffuser: Hardened safety glass

Light source: LED, 4000K, CRI +70, MacAdam3

Optics: DWC: Excellent mix of pole spacing and road width
T2M: Large pole spacing and standard road width
LW1: Large pole spacing and wide roads or area lighting

LED modules (calculated): L80B10 @ta50°C - 60,000hrs

ATEX certified: Zone 2/22



II 3G Ex nR IIC T6 Gc

II 3D Ex tc IIIC T85°C Dc IP66



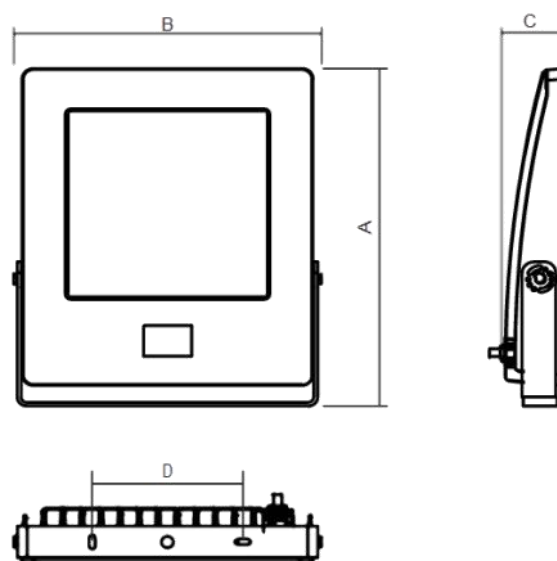
Supply: Dimmable DALI 220-240V 50/60Hz

Entry: 1 x M20 (Exe Plastic gland included)

Termination: Screwless 3-pole terminal block, 2.5mm² max

Mounting: Adjustable U-bracket

Optional: - Unistrut stainless steel pole clamps
58.7-63.5mm or 73.0-79.4mm (other sizes also available)
- Streetlight pole adaptor for floodlight U-bracket
60mm or 76mm pole (side or top mounting)



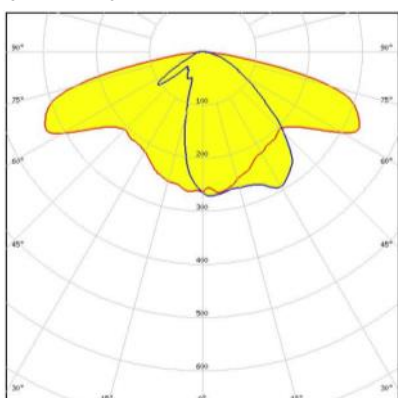
Pole mounting options:



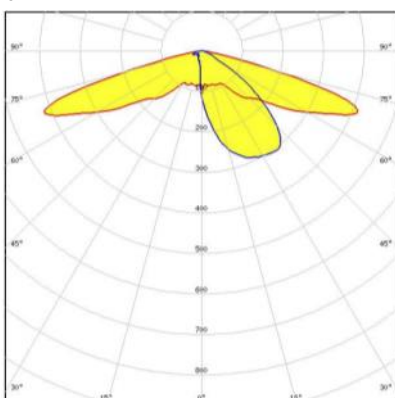
Order Number	Lumen (lm)	Power (W)	Ta Min/Max (°C)	Dimensions AxBxCxD (mm)	Weight (kg)
STR-N-LED-DWC-17000-4K-DALI	6,500-16,000	Up to 105	-40/+60	480 x 400 x 80 x 200	12

DWC-optic lens as standard. To order another optic lens simply replace 'DWC' with 'SCL', or 'LW1'. The lumen output can vary slightly when selecting a different lens. Please contact your local distributor.

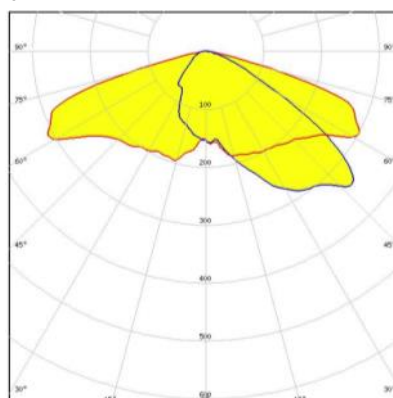
STR-N-LED-DWC



STR-N-LED-T2M



STR-N-LED-LW1





GREY-N-LED

IP 66 / zone 2, 22

5 year warranty



FTZÚ 20 ATEX 0093X



Application: Dustproof floodlight GREY-N-LED with degree of protection IP66 designed for lighting of areas with danger of explosion.

Ballast: EP – electronic 220–240V 0/50/60Hz

Light source: LED, 4000K, CRI +70, MacAdam3

Housing: Die-cast aluminium, black colour, RAL 9005, matt

Diffuser: Hardened safety glass

Optics: S – symmetrical wide beam radiant optics
AS – asymmetrical wide beam radiant optics
H – symmetrical narrow beam radiant optics
AH – asymmetrical narrow beam radiant optics

Fastening: Surface mounted by means of adjustable bracket

Connection: Screwless three-pole terminal block, max. diameter of wires 2.5 mm²

Standard equipment: EX M20 cable gland for diameter of cable 7-12 mm

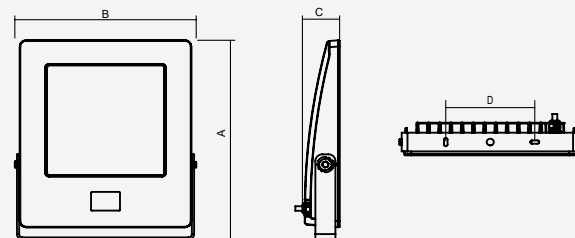
Calculated lifetime – LED modules: L80B10 ta45°C – 60 000h

Minimum ambient temperature: -40°C

GREY-N-LED

Ⓜ II 3G Ex nR IIC T6 Gc

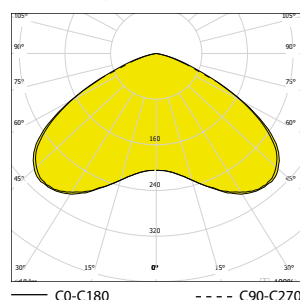
Ⓜ II 3D Ex tc IIIC 85°C Dc



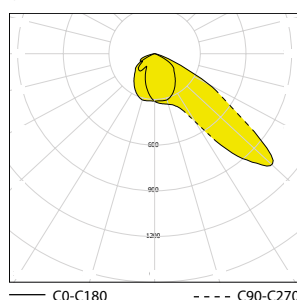
Order number	Name	Lighting fixture luminous flux (lm)	Power input (W)	Rated power output (lm/W)	Ta max (°C)	Dimensions of lighting fixture A x B x C (mm)	Mounting spacing D (mm)	Weight (kg)
056900	GREY-N-LED-S-17000-4K	15933	103	155	60	480x400x80	200	10
056904	GREY-N-LED-S-18500-4K	17191	113	152	55	480x400x80	200	10
056908	GREY-N-LED-S-21000-4K	19631	133	148	50	480x400x80	200	10
056912	GREY-N-LED-S-24500-4K	23108	164	141	55	480x400x80	200	10
056916	GREY-N-LED-S-29500-4K	27450	206	133	45	480x400x80	200	10

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

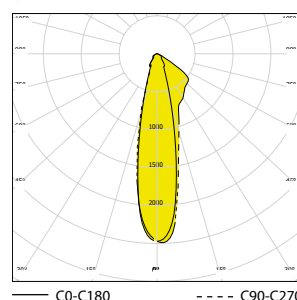
GREY-N-LED-S



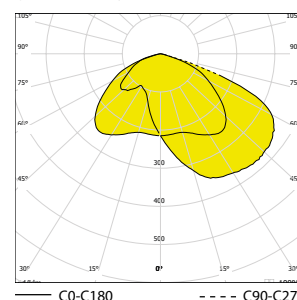
GREY-N-LED-AH



GREY-N-LED-H

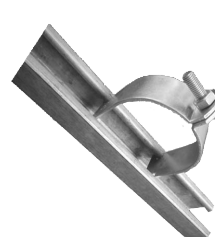
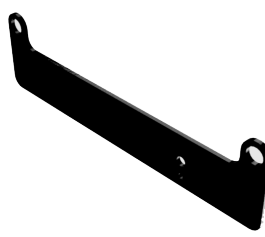


GREY-N-LED-AS



SAFE answers to HAZARDOUS questions

Lighting fixture detail



On request

DIM – dimmable electronic ballast (DALI)

2.7K-6.5K - colour temperature

SB - Suspension bracket - 304SS (set of 2)

UPC - Pole clamping kit (60mm or 76mm)

Standard order number	AS	H	AH	S DALI	AS DALI	H DALI	AH DALI
056900	056901	056902	056903	056900 DALI	056901 DALI	056902 DALI	056903 DALI
056904	056905	056906	056907				
056908	056909	056910	056911	056908 DALI	056909 DALI	056910 DALI	056911 DALI
056912	056913	056914	056915				
056916	056917	056918	056919	056916 DALI	056917 DALI	056918 DALI	056919 DALI

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 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





corridorFUNCTION

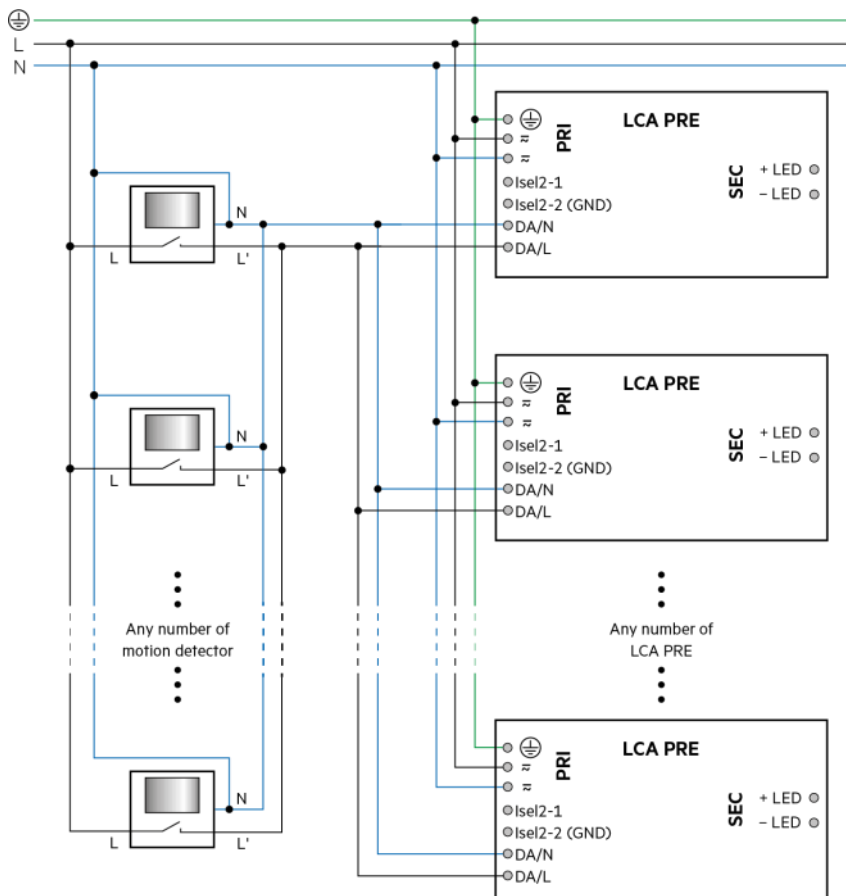
DALI

The corridorFUNCTION enables the illuminance to be linked to the presence or absence of people. A conventional relay motion sensor and/or pushbutton is connected.

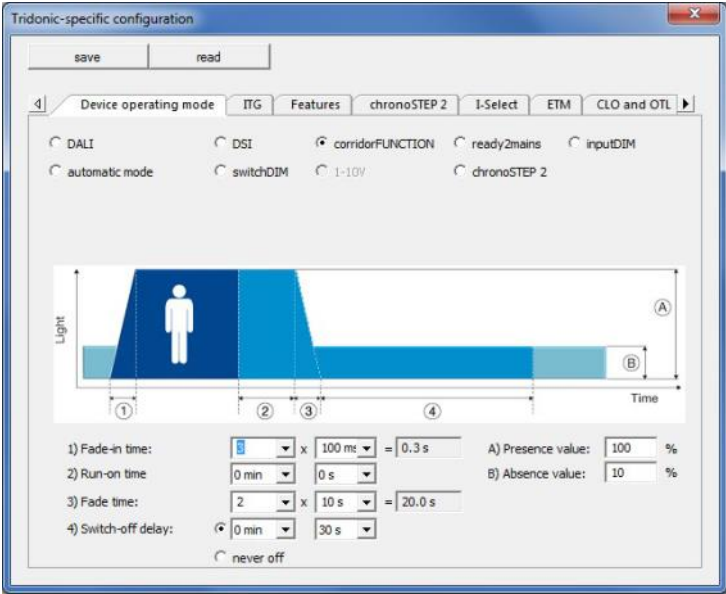
The luminous intensity is increased when a person enters the detection area. When the person leaves the area the motion sensor switches off and after a certain delay the luminous intensity is automatically reduced.

When using a pushbutton, the corridorFUNCTION effectively acts like an off-delay timer.

The corridorFUNCTION is particularly beneficial in applications in which light is needed round the clock for safety reasons. Since the luminous intensity only has to be increased when there is a demand for light the corridorFUNCTION offers effective lighting management and helps saving energy and costs. Another benefit of the corridorFUNCTION is the enhanced convenience of automatic lighting control and can be combined with a photocell.



The profiles and their values can be freely adjusted within the value range and pre-programmed either on site or at the factory (recommended).



Configuration Option	Description
Presence value	Value to which the luminaire switches when presence is detected or a pushbutton is pressed. Value range: 0-100% (default 100%)
Absence value	Level to which the luminaire group switches during the switch-off delay . Value range: 0-100% (default 10%)
Fade-in time	Time required to reach the presence value Value range: 0.1s - 160min (default 0s)
Run-on time	A time starting from the last detected movement or release of the pushbutton; when the run-on time expires, the fade time begins. If further movement is detected or a pushbutton has been pressed during the run-on time , it starts over again Value range: 0s - 40min 50s (default 0s)
Fade time	Time during which the lighting is smoothly adjusted to the absence value Value range: 0s - 160min (default 30s)
Switch-off delay	Time for which the absence value is maintained if no movement is detected. Value range: 0s - 40min 50s (default 'Never off') 'Never OFF' : the lighting remains at the absence value until further movement is detected by the motion sensor or a pushbutton has been pressed. The luminaire group is never fully switched OFF by the sensor or the pushbutton.

CAUTION!

Use conventional relay motion sensors!
Electronic motion sensors (Triac) are not suitable because of their technical design.

CAUTION!

Do not use glow switches!
Glow switches may affect the control.

CAUTION!

Make sure that the control line (L') of the motion sensor is connected to terminal DA/L and the neutral conductor (N) to terminal DA/N.

CAUTION!

For five-pole wiring the neutral conductor must be connected to DA/N.
This prevents 400 V being applied between adjacent terminals if a different phase is used for the control input.

NOTICE!

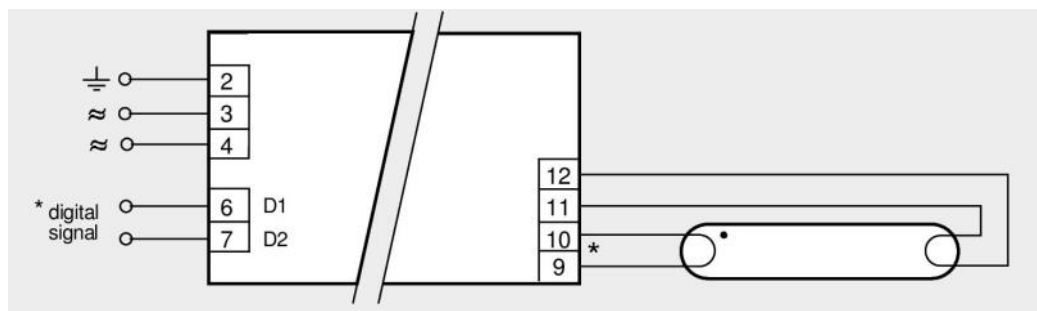
For large installations, supply to the LED Driver may be split among several phases (L1, L2, L3).
Any phase can be used for the control input .
Any number of motion sensors or pushbuttons can be connected in parallel.



switchDIM

Connecting live and neutral to the control terminals D1 and D2 via a push-to-make switch (momentary switch) offers the possibility to control the dimming level and the on/off function without any digital devices. With a short push you can switch ON and OFF. If you push and hold it is possible to dim the LEDs throughout the full dimming range of the ballasts (1 or 3% up to 100%).

The wiring for switchDIM can be simplified to Live, Switched Live, Neutral and Earth (identical to emergency circuits - see page 2).

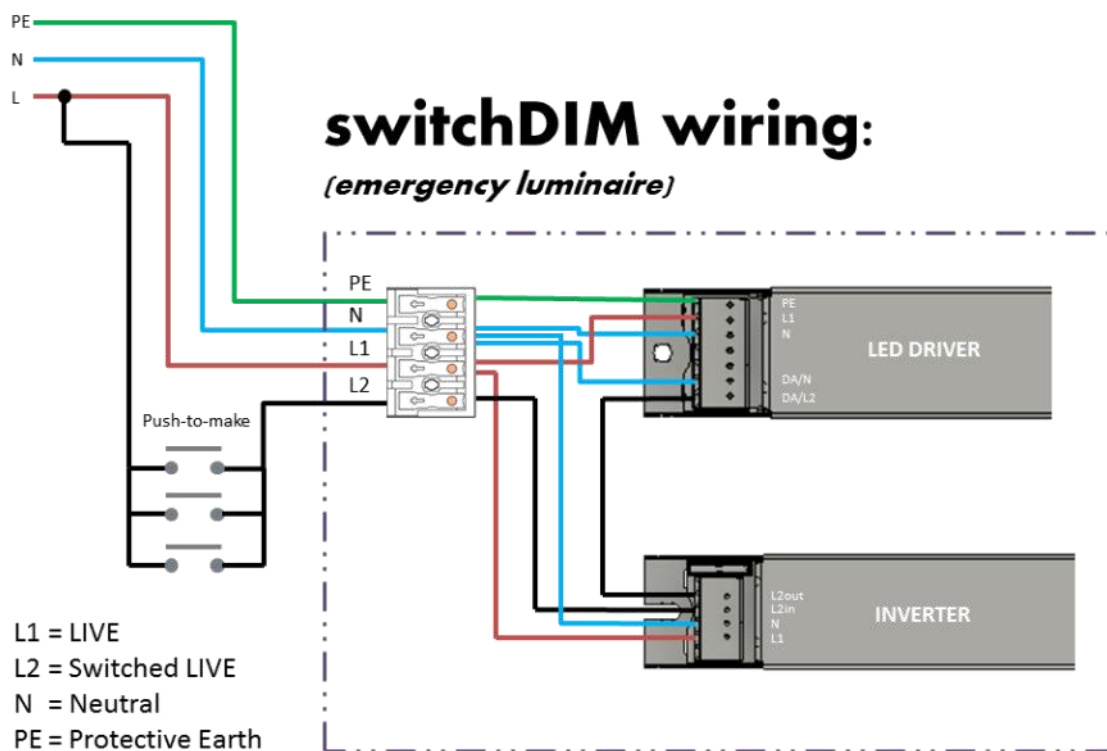
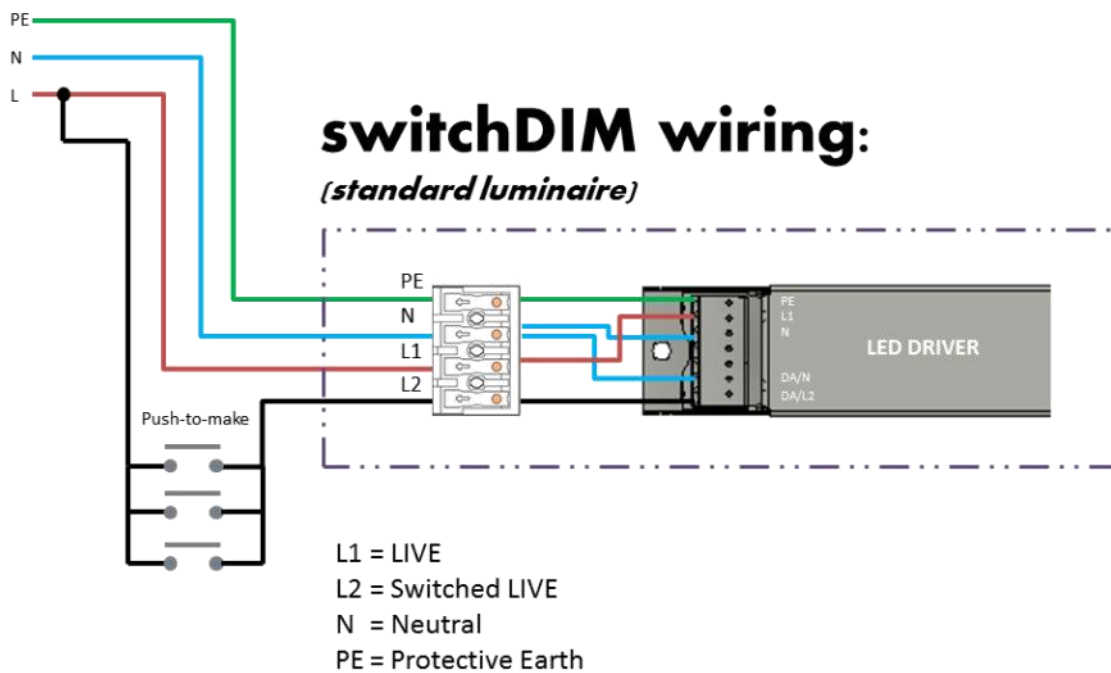


Technical data

- Maximum length of the control wires: unlimited due to 230/240V potential
- Unlimited number of push-to-make switches (momentary switches)
- Maximum numbers of ballast: theoretically unlimited because no power or load is being controlled but due to the possibility of asynchronous function we recommend the number of ballasts connected to the switch does not exceed 25 pieces. If more are needed, use full DALI control instead.

Synchronisation

- In the case of a new installation or new ballast installed into an existing installation, it is possible that not all ballasts will be synchronous. In operation some ballasts may be switched off whilst others are switched on and the dimmed levels of the ballasts may not be the same. With a push on the switch longer than 10 seconds all ballasts will synchronise at a 50% light level and have the same point of departure for dimming. This process can be applied at any time during normal operation if any individual is unsynchronised.



CAUTION!

Do not use glow switches!

Glow switches may cause the LED driver to spontaneously switch ON of OFF or make sudden change in the dimming value.

CAUTION!

The neutral conductor **MUST** be connected to DA/N.

This prevents 400 V being applied between adjacent terminals if a different phase is used for the control input.

CAUTION!

To ensure correct operation, a sinusoidal mains voltage with a frequency of 50Hz or 60Hz is required at the terminal.

NOTICE!

For large installations, supply to the LED Driver may be split among several phases (L1, L2, L3).

Any phase can be used for the control input .

Any number of pushbuttons can be connected in parallel.

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