

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001

STAHL

www.stahl.de



15454E00

- > As wall, ceiling and pendant light fitting or side entry lamp
- > Version with 2 lamps: 18 W, 36 W and 58 W
- > Central locking
- > All-pole disconnection by means of an N/C switch when the lamp is opened

E2



The lights of the Series EXLUX 6001 can be used for normal lighting but also for an emergency light which is supplied with current via a group or a central system.

Zone	ATEX / IECEX					
	0	1	2	20	21	22
For use in		x	x		x	x

Explosion Protection

Global (IECEX)

Gas and dust | IECEx PTB 13.0003
Ex d e IIC T4 Gb or Ex db eb IIC T4
Ex tb IIIC T80°C Db or Ex tb IIIC T80°C

Europe (ATEX)

Gas and dust | PTB 13 ATEX 2004
Ⓜ II 2 G Ex d e IIC T4 Gb or Ex db eb IIC T4
E II 2 D Ex tb IIIC T80°C Db or Ex tb IIIC T80°C

Certifications and certificates

Certificates | IECEx, ATEX, Brazil (INMETRO), Kazakhstan (TR), Russia (TR), Serbia (SRPS), Belarus (TR)

WebCode 6001A

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001

Selection Table

Version	Through wiring	Length	Lamp wattage	Number of lamps	Order number	Weight
		mm	W			kg
EXLUX 6001	5-way	700	18	2	6001/522-9510-15-131	4.500
		1310	36	2	6001/542-9510-15-131	6.750
		1610	58	2	6001/562-9510-15-131	7.900
	without	700	18	2	6001/522-9010-15-131	4.350
		1310	36	2	6001/542-9010-15-131	6.540
		1610	58	2	6001/562-9010-15-131	8.300

Order Number Supplement

Through wiring	without	6001/5...0-...-...
	with 5 conductors	6006/5...5-...-...
ECG	220 ... 240 V 2-lamps AC, 1-lamp DC	6001/5.....0-...-...
	220 ... 240 V 2-lamps AC, 2-lamps DC	6001/5.....1-...-...
	110 ... 240 V 2-lamps AC, 1-lamp DC (18 W and 36 W only)	6001/5.....2-...-...
	110 ... 240 V 2-lamps AC, 2-lamps DC (18 W and 36 W only)	6001/5.....3-...-...
	120 ... 277 V 2-lamps AC, 2-lamps DC (17 W, 32 W and 40 W NEC-standard)	6001/5.....6-...-...
Connection terminal	Spring clamp terminal type WAGO 0.5 ... 4 mm ²	6001/5.....-1-...-...
	Screw-type terminal type STAHL 1.5 ... 6 mm ²	6001/5.....-2-...-...
Cable glands	Standard 3 x holes M25 2 x M25 x 1,5 cable gland and 2 x M25 x 1,5 stopping plug	6001/5.....-...-131
	Special 3 x holes M20 2 x M20 x 1,5 cable gland and 2 x M20 x 1,5 stopping plug	6001/5.....-...-232

Note

The lights are delivered without fluorescent lamps and assembly parts. These parts must be ordered separately!

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001



Technical Data

Electrical data

Ballast	6001/...0-...-	6001/...1-...-	
	Lamp start	Cold start	Cold start
Voltage	220 ... 240 V AC	220 ... 240 V AC	
Voltage DC during switching on	198 ... 264 V DC	104 ... 264 V DC	
Voltage DC during operation	176 ... 264 V DC	198 ... 264 V DC	
Frequency	0 / 50 ... 60 Hz	0 / 50 ... 60 Hz	
Operation of the lamps DC	1 lamp	2 lamps	
Lamp standard	IEC 60081	IEC 60081	
Lamp power	18, 36, 58 W	18, 36, 58 W	
Nominal current	1 x 18 W, 85 mA 2 x 18 W, 170 mA 1 x 36 W, 160 mA 2 x 36 W, 320 mA 1 x 58 W, 250 mA 2 x 58 W, 500 mA	1 x 18 W, 85 mA 2 x 18 W, 170 mA 1 x 36 W, 160 mA 2 x 36 W, 320 mA 1 x 58 W, 250 mA 2 x 58 W, 500 mA	
	6001/...2-...-	6001/...3-...-	6001/...6-...-
Lamp start	Cold start	Cold start	Cold start
Voltage	110 ... 240 V AC	110 ... 240 V AC	120 ... 277 V AC
Voltage DC during switching on	104 ... 264 V DC	104 ... 264 V DC	113 ... 294 V DC
Voltage DC during operation	104 ... 264 V DC	104 ... 264 V DC	113 ... 294 V DC
Frequency	0 / 50 ... 60 Hz	0 / 50 ... 60 Hz	0 / 50 ... 60 Hz
Operation of the lamps DC	1 lamp	2 lamps	2 lamps
Lamp standard	IEC 60081	IEC 60081	ANSI C78.81
Lamp power	18, 36 W	18, 36 W	17, 32, 40 W
Nominal current	1 x 18 W, 85 ... 175 mA 2 x 18 W, 170 ... 345 mA 1 x 36 W, 155 ... 330 mA 2 x 36 W, 310 ... 660 mA	1 x 18 W, 85 ... 175 mA 2 x 18 W, 170 ... 345 mA 1 x 36 W, 155 ... 330 mA 2 x 36 W, 310 ... 660 mA	1 x 17 W, 80...155 mA 2 x 17 W, 160...305 mA 1 x 32 W, 135...285 mA 2 x 32 W, 270...570 mA 1 x 40 W, 160...360 mA 2 x 40 W, 325...715 mA
Power factor $\cos \varphi$	$\cos \varphi \geq 0.97$ capacitive; no additional compensation required		
Disconnection of the light	<p>When opening the light Switch with safety lock; when opening the central lock, all poles of the voltage supply to the ballast are disconnected; contacts of the switching element are NC contacts, they can only be switched on again when the lamp cover and the central locking system are closed.</p> <p>In case of a lamp fault, the electronic ballast disconnects the defective lamp from the power supply.</p>		
End of life switch	The electronic ballast, type 6042/9... fulfills the requirements according to IEC 61347-2-3 (simulation of the "end of life effect" of fluorescent lamps, "asymmetric pulse test 1" and "asymmetric power test 2" correspond to the test conditions in the draft IEC 60079-7 ed.4 appendix H).		
Luminous characteristics			
Measures for light guidance	Standard:	Deep bowl, reflector of the lamp is white Lateral dazzle limitation in the lamp cover	

E2

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001

Technical Data

Ambient conditions

Operating temperature range

Type	Through wiring	
	without	with
6001/52.-...0-.-...	-30 ... +60 °C	-30 ... +50 °C
6001/52.-...1-.-...	-30 ... +60 °C	-30 ... +50 °C
6001/52.-...2-.-...	-30 ... +45 °C	-30 ... +40 °C
6001/52.-...3-.-...	-30 ... +45 °C	-30 ... +40 °C
6001/54.-...0-.-...	-30 ... +55 °C	-30 ... +50 °C
6001/54.-...1-.-...	-30 ... +55 °C	-30 ... +50 °C
6001/54.-...2-.-...	-30 ... +45 °C	-30 ... +40 °C
6001/54.-...3-.-...	-30 ... +45 °C	-30 ... +40 °C
6001/56.-...0-.-...	-20 ... +55 °C	-20 ... +50 °C
6001/56.-...1-.-...	-20 ... +55 °C	-20 ... +50 °C
6001/53.-...6-.-...	-30 ... +40 °C	-30 ... +40 °C
6001/55.-...6-.-...	-30 ... +40 °C	-30 ... +40 °C

The lowest ambient temperature when used with breather is -20 °C.

Mechanical data

Degree of protection

IP66 / IP67 (IEC 60598)

Protection class

I (with internal PE connection)

Impact strength (IK code)

IK10 (IEC 62262)

Material

Enclosure

Enclosure

Colour

Polyester resin, glass fibre-reinforced
colour grey, similar to RAL 7035

Translucent cover

Polycarbonate

Seal

Silicone foam gasket in the lamp cover

Luminaire locking

Central locking which can be opened/closed using a socket key M8 / wrench size 13, hinged lamp cover

Mounting / Installation

Cable glands

Standard luminaire

Plastic: 2 x M25 x 1.5 cable gland 8161 and
2 x M25 x 1.5 stopping plugs 8290 (enclosed)

Metal: 2 x metal plates M20 x 1.5 connected by means of PE for metal cable entries
Attention: cable entries must be ordered separately

Special: max. 4 bores for M20, M25, NPSM ½"
max. 2 bores for NPT ¾"

Metal cable glands: M20 x 1.5, M25 x 1.5; earthing of the metal cable entries by means of metal plates

Connection

Standard: Spring clamp terminals
5-pole: L1, L2, L3, N, PE
Clamping range: 1 x 0.75 ... 4 mm² (solid / finely stranded)
4 mm² finely stranded without core end sleeve only
(2 free clamping units for each pole available)

Special: Terminal block with covering
5-pole: L1, L2, L3, N, PE
Clamping range: 2 x 1.5 ... 6 mm² (solid); 2 x 1.5 ... 4 mm² (finely and extra finely stranded)

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001

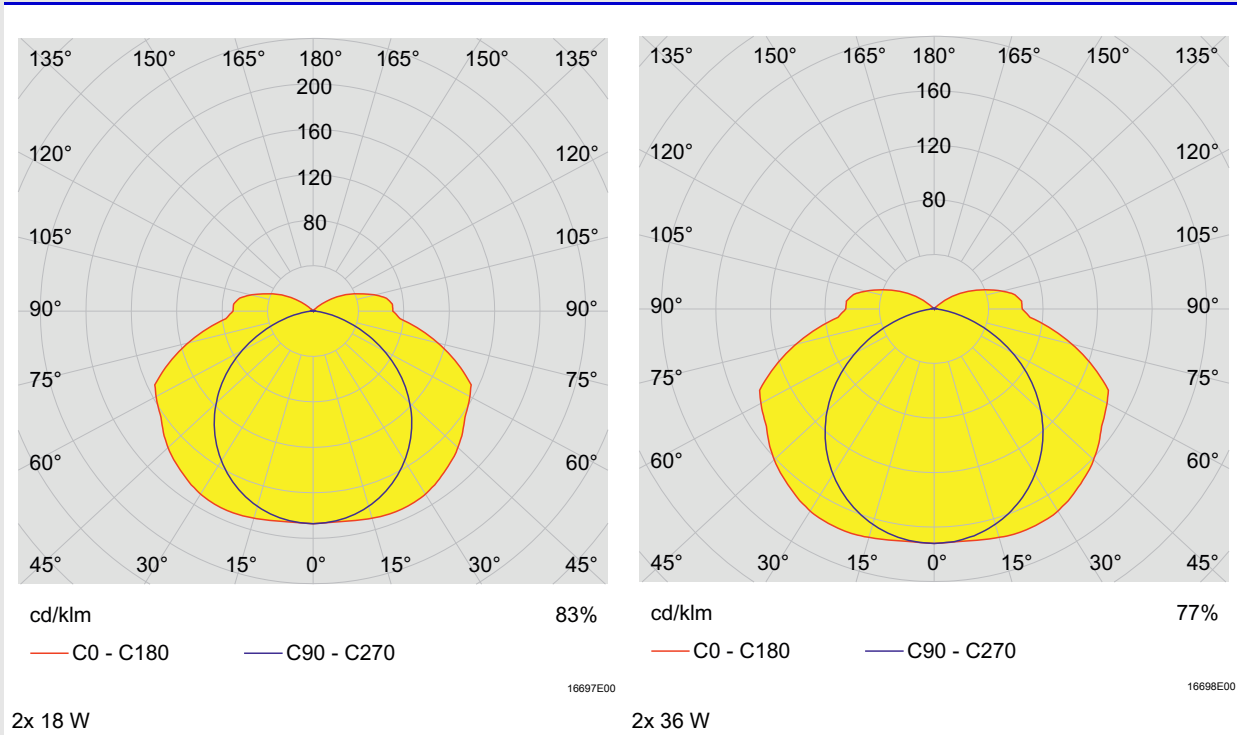


E2

Technical Data

Through wiring	Through wiring	Standard luminaire Luminaires are equipped with internal through wiring. Ingoing and outgoing leads can be connected on the opposite sides. Terminals: see Techn. data Wiring cross-section: 2.5 mm ² for max. 16 A
	without	
Assembly	For outdoor mounting, a breather is recommended Standard luminaire Standard: 2 x M8 insert nuts in the enclosure Special: Mounting grooves in the enclosure for the use of fastening and ceiling rails for variable luminaire mounting (variable mounting distances for luminaires 18 W: 320 ... 480 mm; 36 W / 58 W: 670 ... 930 mm)	

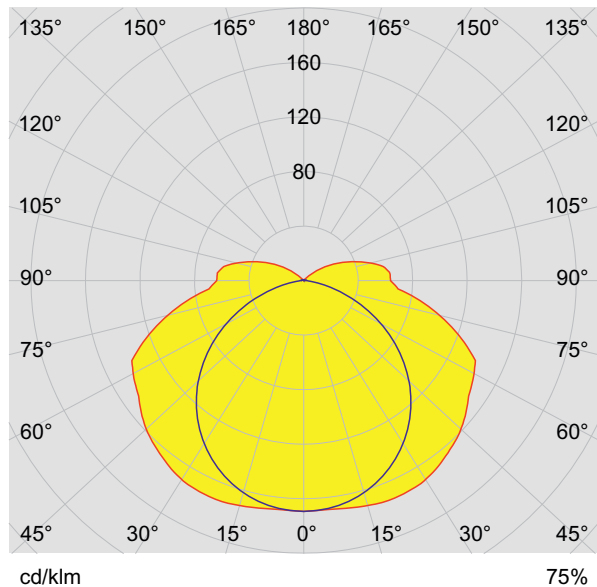
Light distribution curves



Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001


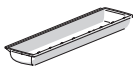
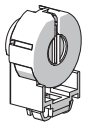
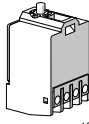
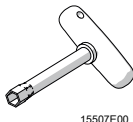
Light distribution curves



2x 58 W

16699E00

Accessories and Spare Parts

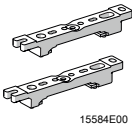
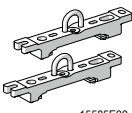

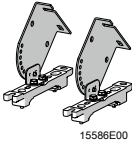
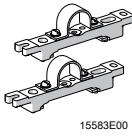
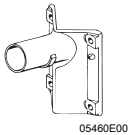


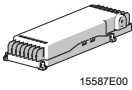
Designation	Figure	Description	Art. no.	Weight kg	
Fluorescent lamps	 04936E00	Two-pin cap \varnothing 26 mm Light colour: universal white Pins made of brass			
		18 W 1350 lm	108952	0.100	
		36 W 3350 lm	108951	0.200	
Lamp cover		for luminaire L=700	222427	0.639	
		for luminaire L=1310	222428	1.149	
		for luminaire L=1610	222429	1.450	
Lamp-holder	 05696E00	Lamp holder G13	1 piece	117252	0.036
Switch	 10809E00	Switching element 8080/1-3-L, 2 normally closed contacts	132527	0.026	
Socket key	 15507E00	M8 / wrench size 13; to open/close the central locking	222430	0.210	

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001



Accessories and Spare Parts

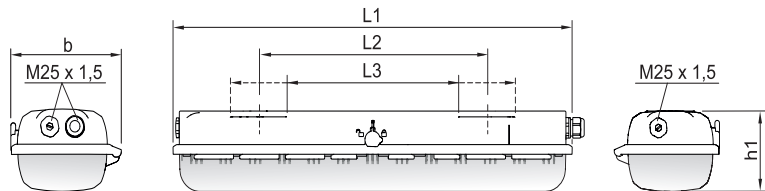
Designation	Figure	Description	Art. no.	Weight kg
Mounting rail	 15584E00	for a variable mounting distance	1 pair 222826	0.300
Mounting bracket	 15585E00	mounting clamp mounted on a mounting rail for a variable mounting distance	1 pair 222456	0.400
Pole mounting sleeve	 16985E00	for the subsequent mounting on lights 18 W and 36 W, completely with assembly parts	227512	3.200
Ceiling and wall-mounting bracket	 15586E00	mounted on a mounting rail for a variable mounting distance; Material: stainless steel Lamp can be swiveled in steps of 15°	1 pair 222827	1.200
Pipe clamp	 15583E00	with mounting rail for a variable mounting distance; Material: stainless steel	1 pair	
		R 1 1/4"	222458	1.250
		R 1 1/2"	222459	1.200
		R 2"	222460	1.300
Bracket for wall mounting with tube	 05460E00	for side entry lamp; with tube, length 400 mm, Ø 42 mm	108947	2.480
Ring bolt	 05378E00	M8, direct mounting in insert nuts, 1 pair	115736	0.112
Breathing gland	 05703E00	M25 x 1.5 in order to avoid condensate formation	115738	0.017
Ballast	 15587E00	Spare ballast for replacement 1:1		
		6042/923-21; 18 W; 220 ... 240 V; 1xDC	117594	1.471
		6042/923-22; 18 W; 220 ... 240 V; 2xDC	117593	1.400
		6042/943-21; 36 W; 220 ... 240 V; 1xDC	117596	1.400
		6042/943-22; 36 W; 220 ... 240 V; 2xDC	117595	1.400
		6042/963-21; 58 W; 220 ... 240 V; 1xDC	117597	1.388
		6042/963-22; 58 W; 220 ... 240 V; 2xDC	117598	1.400
		6042/913-22; 18 W; 110 ... 240 V; 2xDC	202164	1.550
		6042/983-22; 36 W; 110 ... 240 V; 2xDC	202165	1.550

E2

Linear Luminaire for Fluorescent Lamps

Series EXLUX 6001

Maßzeichnungen (alle Maße in mm [Zoll]) - Änderungen vorbehalten



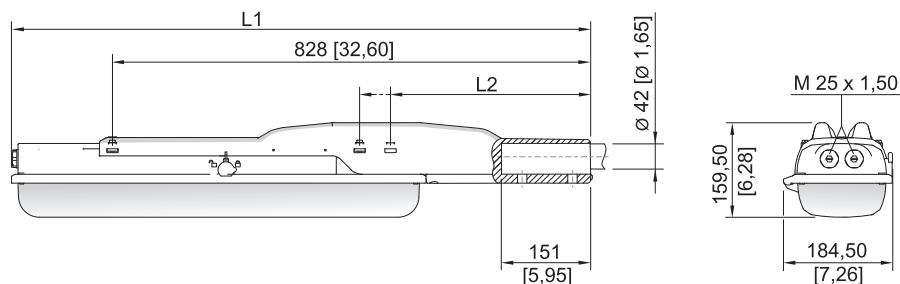
15440E00

Maße	Leuchte		
	17/18 W	32/36 W	40/58 W
L1	700 [27,56]	1310 [51,57]	1610 [63,39]
L2 ¹⁾	400 [15,75]	800 [31,50]	800 [31,50]
L3 ²⁾	320 ... 480 [12,60 ... 18,90]	670 ... 930 [26,38 ... 36,61]	670 ... 930 [26,38 ... 36,61]
b	184 [7,24]	184 [7,24]	184 [7,24]
h1	125 [4,92]	125 [4,92]	125 [4,92]

¹⁾ fester Montageabstand

²⁾ variabler Montageabstand

EXLUX 6001 Standardleuchte



Maße	Leuchte	
	17 / 18 W	32 / 36 W
L1	978 [38,50]	1587 [62,48]
L2	390 [15,35]	338 [13,31]

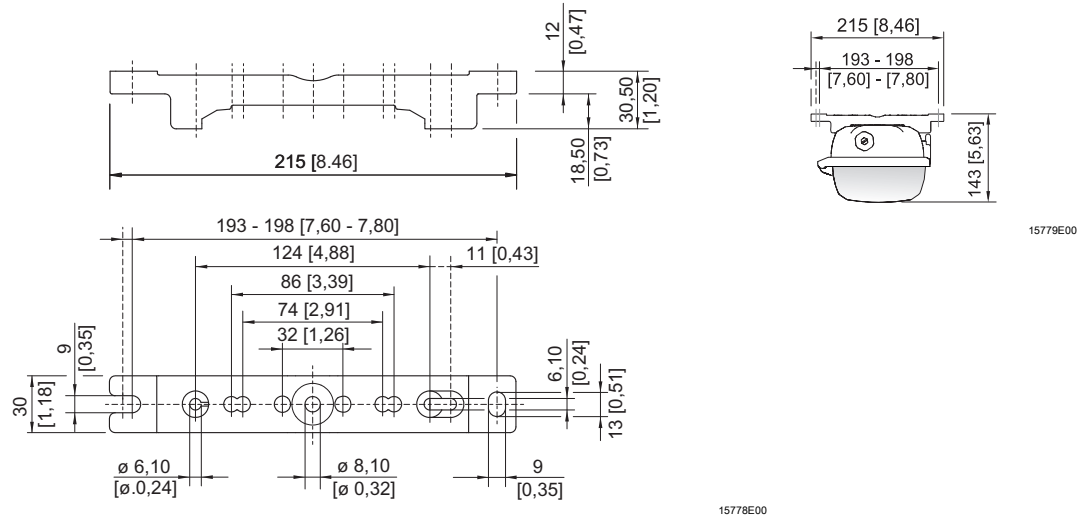
EXLUX 6001 mit Mastschuh

Linear Luminaire for Fluorescent Lamps

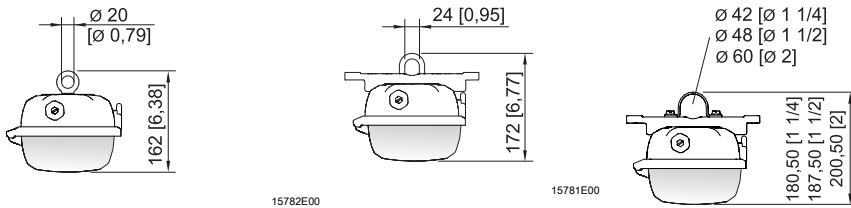
Series EXLUX 6001



Dimensional drawings for assembly parts and accessories (all dimensions in mm [inches]) – Subject to alterations



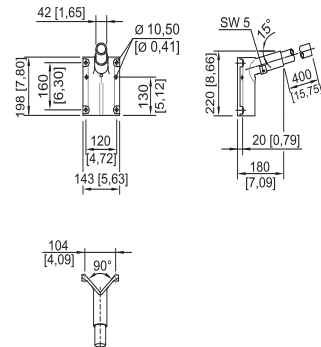
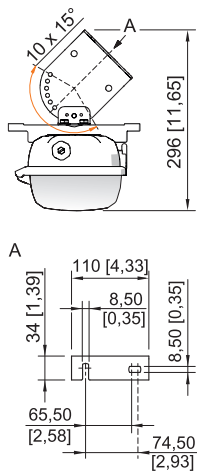
Mounting rail



Ring bolt fitted in insert nut of luminaire

Mounting bracket fitted in mounting rail

Pipe clamp fitted in mounting rail



Wall mounting bracket fitted in mounting rail

Bracket for wall mounting with pipe section

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.