

# 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 db eb IIC T4 Gb  
Ex tb IIIC T80°C Db

#### Europe (ATEX)

Gas and dust

PTB 13 ATEX 2004  
⊕ II 2 G Ex db eb IIC T4 Gb  
⊕ II 2 D Ex tb IIIC T80°C Db

#### Certifications and certificates

Certificates

IECEX, ATEX, Brazil (INMETRO), Kazakhstan (TR), Russia (TR), Serbia (SRPS), Belarus (TR)

WebCode 6001A

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### 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-...-...
Connection terminal	Spring clamp terminal type WAGO 0.5 ... 4 mm <sup>2</sup>	6001/5...-1-...-...
	Screw-type terminal type STAHL 1.5 ... 6 mm <sup>2</sup>	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!

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### Technical Data

#### Electrical data

Control gear	6001/...-...0-...-...	6001/...-...1-...-...
	Lamp 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-...-...
Lamp start	Cold start	Cold start
Voltage	110 ... 240 V AC	110 ... 240 V AC
Voltage DC during switching on	104 ... 264 V DC	104 ... 264 V DC
Voltage DC during operation	104 ... 264 V DC	104 ... 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 W	18, 36 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
Power factor cos $\phi$	cos $\phi \geq 0.97$ capacitive; no additional compensation required	
Disconnection of the light	<p><b>When opening the light</b> 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><b>In case of a lamp fault</b>, 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	<b>Standard:</b> Deep bowl, reflector of the lamp is white Lateral dazzle limitation in the lamp cover
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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

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

#### Mechanical data

Degree of protection	IP66 (IEC 60598) IP66 / IP67 (IEC 60598) 18 W und 36 W
Protection class	I (with internal PE connection)
Impact strength (IK code)	IK10 (IEC 62262)
Material	
Enclosure	
Enclosure	Polyester resin, glass fibre-reinforced
Colour	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	<p><b>Standard luminaire</b></p> <p>Plastic: 2 x M25 x 1.5 cable gland 8161 and 2 x M25 x 1.5 stopping plugs 8290 (enclosed)</p> <p>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</p> <p>Special: max. 4 bores for M20, M25, NPSM ½" max. 2 bores for NPT ¾"</p> <p>Metal cable glands: M20 x 1.5, M25 x 1.5; earthing of the metal cable entries by means of metal plates</p>
Connection	<p><b>Standard:</b> Spring clamp terminals 5-pole: L1, L2, L3, N, PE Clamping range: 1 x 0.75 ... 4 mm<sup>2</sup> (solid / finely stranded) 4 mm<sup>2</sup> finely stranded without core end sleeve only (2 free clamping units for each pole available)</p> <p><b>Special:</b> Terminal block with covering 5-pole: L1, L2, L3, N, PE Clamping range: 2 x 1.5 ... 6 mm<sup>2</sup> (solid); 2 x 1.5 ... 4 mm<sup>2</sup> (finely and extra finely stranded)</p>
Through wiring	<p>Through wiring <b>Standard luminaire</b> 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<sup>2</sup> for max. 16 A</p> <p>without <b>Optional</b> On the connection side, there are 2 bores M25 x 1.5 for cable entries for ingoing and outgoing wiring of the connection line (ingoing and outgoing leads on one side).</p>

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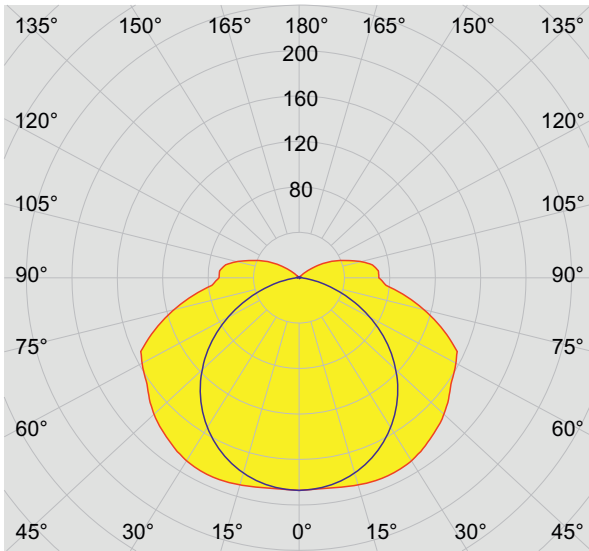


### Technical Data

Assembly	For outdoor mounting, a breather is recommended
	<b>Standard luminaire</b>
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)

E2

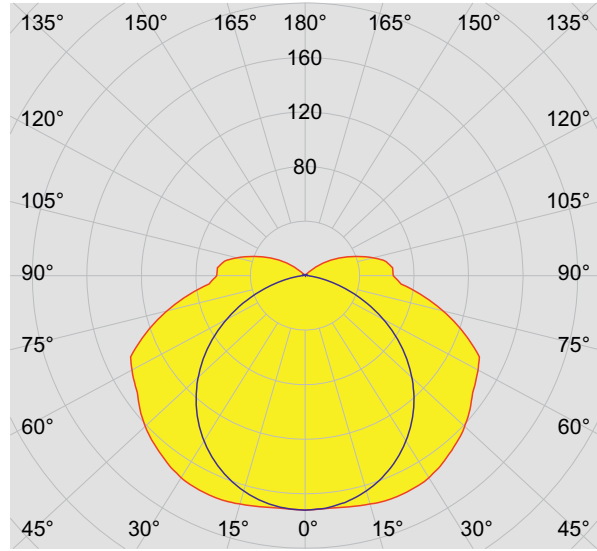
### Light distribution curves



cd/klm 83%  
 — C0 - C180 — C90 - C270

16697E00

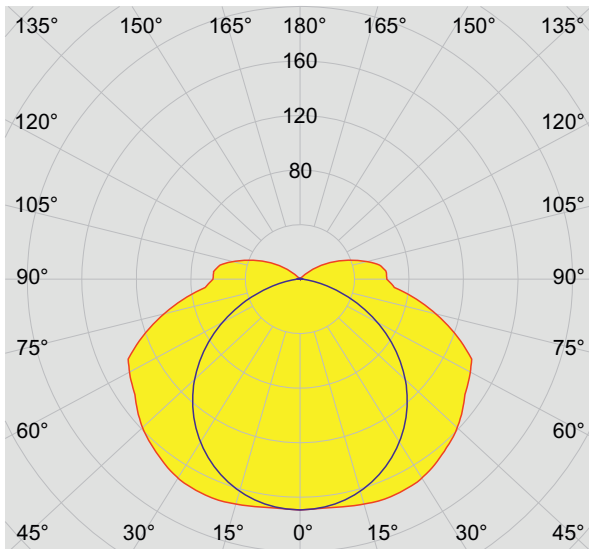
2x 18 W



cd/klm 77%  
 — C0 - C180 — C90 - C270

16698E00

2x 36 W



cd/klm 75%  
 — C0 - C180 — C90 - C270

16699E00


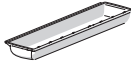
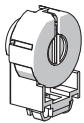
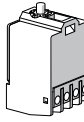
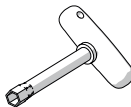
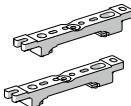
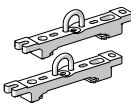

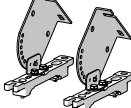
## Linear Luminaire for Fluorescent Lamps

### Series EXLUX 6001

#### Light distribution curves

2x 58 W

#### Accessories and Spare Parts

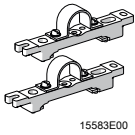
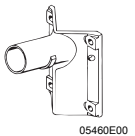

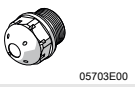
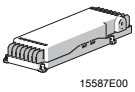
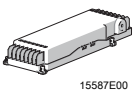
Designation	Figure	Description	Art. no.	Weight kg	
Fluorescent lamps	 04936E00	Two-pin cap $\varnothing$ 26 mm Light colour: universal white Pins made of brass			
		18 W    1350 lm	<b>108952</b>	0.100	
		36 W    3350 lm	<b>108951</b>	0.200	
		58 W    5200 lm	<b>108950</b>	0.220	
Lamp cover		for luminaire L=700	<b>222427</b>	0.639	
		for luminaire L=1310	<b>222428</b>	1.149	
		for luminaire L=1610	<b>222429</b>	1.450	
		for luminaire L=700 (resistant to aromatic substances)	<b>256534</b>	0.639	
		for luminaire L=1310 (resistant to aromatic substances)	<b>256535</b>	1.149	
for luminaire L=1610 (resistant to aromatic substances)	<b>256536</b>	1.450			
Lamp-holder	 05696E00	Lamp holder G13	1 piece	<b>117252</b>	0.036
Switch	 10809E00	Switching element 8080/1-3-L, 2 normally closed contacts		<b>132527</b>	0.026
Socket key	 15507E00	M8 / wrench size 13; to open/close the central locking		<b>222430</b>	0.210
Mounting rail	 15584E00	for a variable mounting distance	1 pair	<b>222826</b>	0.350
Mounting bracket	 15585E00	mounting clamp mounted on a mounting rail for a variable mounting distance	1 pair	<b>222456</b>	0.400
Pole mounting sleeve	 16985E00	for the subsequent mounting on lights 18 W and 36 W, completely with assembly parts		<b>227512</b>	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	<b>222827</b>	1.200

# Linear Luminaire for Fluorescent Lamps

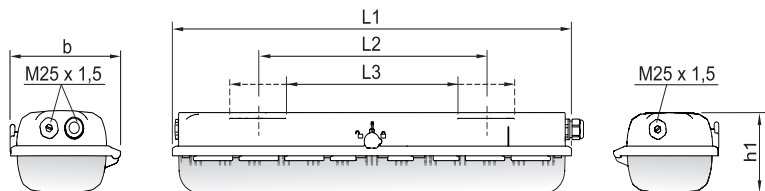
## Series EXLUX 6001



### Accessories and Spare Parts

Designation	Figure	Description	Art. no.	Weight kg	
Pipe clamp	 15583E00	with mounting rail for a variable mounting distance; Material: stainless steel			
		R 1 1/4"	<b>222458</b>	0.900	
		R 1 1/2"	<b>222459</b>	1.200	
		R 2"	<b>222460</b>	0.750	
Bracket for wall mounting with tube	 05460E00	for side entry lamp; with tube, length 400 mm, $\varnothing$ 42 mm	<b>108947</b>	2.480	
Ring bolt	 05378E00	M8, direct mounting in insert nuts, 1 pair	<b>115736</b>	0.112	
Breathing gland	 05703E00	M25 x 1.5 in order to avoid condensate formation for 6009/1	<b>115738</b>	0.017	
Ballast	 15587E00	Spare ballast for replacement 1:1			
		6042/243-21; 18 and 36 W; 220 ... 240 V; 1xDC	<b>258168</b>	1.300	
		6042/243-22; 18 and 36 W; 220 ... 240 V; 2xDC	<b>258169</b>	1.300	
		6042/963-21; 58 W; 220 ... 240 V; 1xDC	<b>117597</b>	1.388	
		6042/963-22; 58 W; 220 ... 240 V; 2xDC	<b>117598</b>	1.400	
			6042/913-22; 18 W; 110 ... 240 V; 2xDC	<b>202164</b>	1.550
			6042/983-22; 36 W; 110 ... 240 V; 2xDC	<b>202165</b>	1.550
	 15587E00	Spare ballast for replacement of:			
		6042/923-21; 18 W; 220 ... 240 V; 1xDC	<b>257901</b>	1.400	
		6042/923-22; 18 W; 220 ... 240 V; 2xDC	<b>257902</b>	1.400	
6042/943-21; 36 W; 220 ... 240 V; 1xDC		<b>257903</b>	1.400		
6042/943-22; 36 W; 220 ... 240 V; 2xDC		<b>257904</b>	1.400		

### 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 <sup>1)</sup>	400 [15,75]	800 [31,50]	800 [31,50]
L3 <sup>2)</sup>	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]

<sup>1)</sup> fester Montageabstand

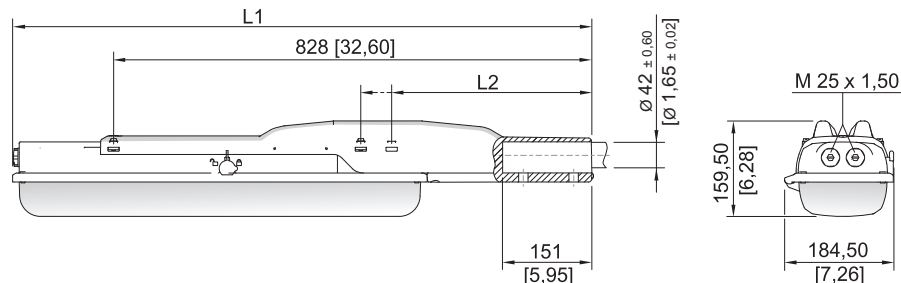
<sup>2)</sup> variabler Montageabstand

# Linear Luminaire for Fluorescent Lamps

## Series EXLUX 6001

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

### EXLUX 6001 Standardleuchte

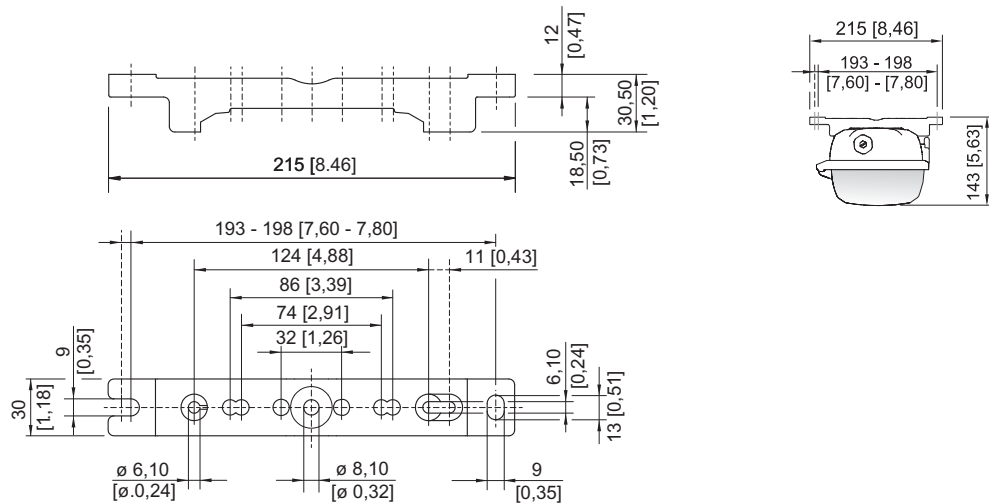


Maße	Leuchte	
	17 / 18 W	32 / 36 W
L1	978 [38,50]	1587 [62,48]
L2	390 [15,35]	338 [13,31]

17755E00

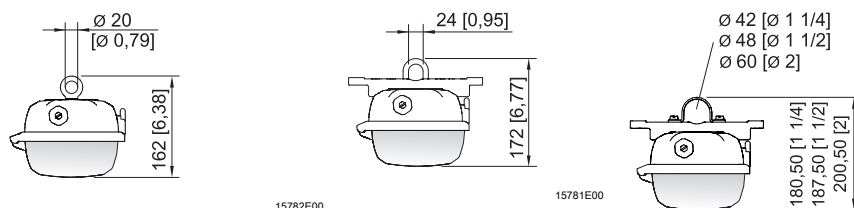
### EXLUX 6001 mit Mastschuh

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



15779E00

### Mounting rail



15782E00

15781E00

15783E00

Ring bolt fitted in insert nut of the luminaire

Mounting bracket fitted in mounting rail

Pipe clamp fitted in mounting rail

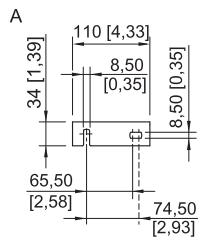
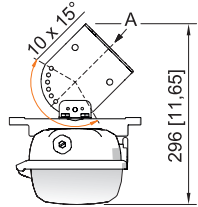


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## Series EXLUX 6001

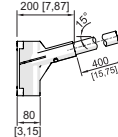
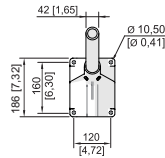


Dimensional drawings for assembly parts and accessories (all dimensions in mm [inches]) – Subject to alterations



15780E00

Wall mounting bracket fitted in mounting rail



03257E00

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.

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