

# TUBO 60 CONEX

## socket / socket

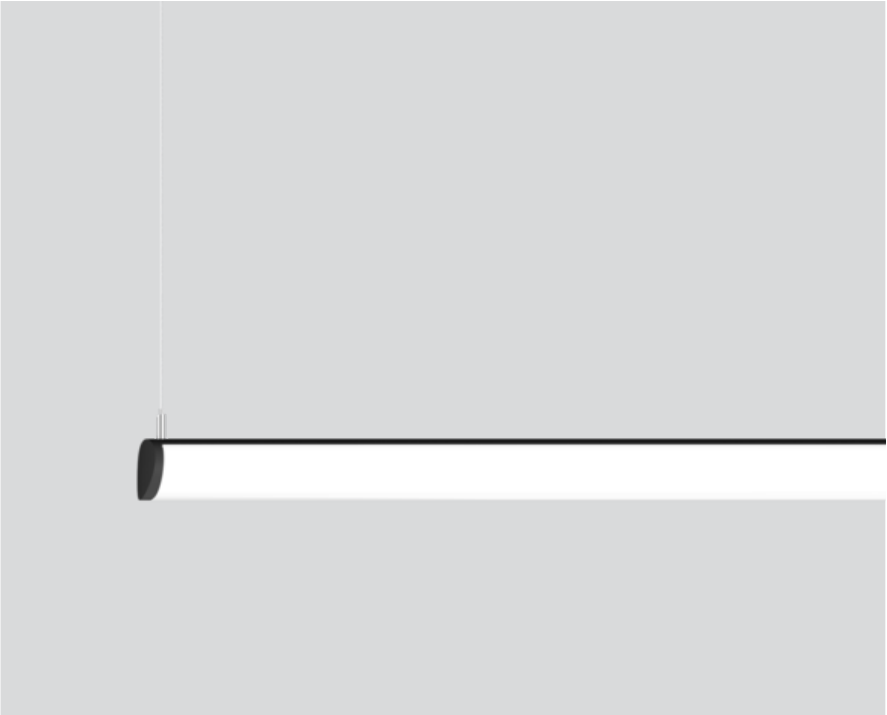
surface / suspended system  
058-30356380



Project / Type

Notes

Count / Date



Carrier profile made of extruded aluminium profile; converter integrated into luminaire housing; for continuous lighting systems; surface jet black powder coated; for wall-/ceiling surface mounting or suspended mounting (1500 mm cable suspension - oblique or straight - as an accessory); easy installation using ceiling clips (available as an accessory) or with integrated toolless suspension height adjustment on the luminaire; freely positioned attachment to the luminaire; canopy for through wiring (available as an accessory); electrical connection of the luminaires via plug/socket system; connectors (L-, T- or X-shape) available as an accessory; luminaire connection rotatable around its own axis, which means that any spatial angle can be realized; light control via high quality lens system for maximum, homogeneous illumination; cylindrical cover made of satin PMMA for uniform illumination; with gentle ceiling illumination; light colour 4000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 80$ ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1; incl. DALI-2 converter; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;



General

Ceiling / Wall | Surface

jet black | RAL 9005

IP20

4490 lm

3100 lm/m

LED

4000 K

CRI  $\geq 80$

L90 / 50000 h

initial MacAdam  $\leq 3$  SDCM

MR 0.72 | MDER 0.65

Optical

High Performance Opal | opal (lambertsch)

PstLM  $\leq 1.0$ <sup>1</sup> | SVM  $\leq 0.4$ <sup>1</sup>

Electrical

DALI-2 | 1 DALI Addr.

PC1 | 220-240 V

system 34 W

system 132 lm/W<sup>2</sup>

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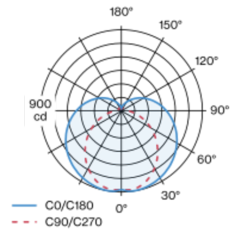
23 W/m

Physical

length 1474 mm | width 60 mm | height 60 mm

<sup>1</sup> Value of containing product at full load (undimmed)  
<sup>2</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

### Light distribution



### Product drawing



### Installation instructions



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### Maintenance Factors

| Operating Time [h] | 10 000                       | 20 000 | 30 000            | 40 000                          | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF               | 0.98                         | 0.96   | 0.94              | 0.92                            | 0.9    |
| LSF                | 1                            | 1      | 1                 | 1                               | 1      |
| MF                 | LMF × RSMF × LLMF × LSF      |        | RSMF <sup>a</sup> | Room Surface Maintenance Factor |        |
| MF                 | Maintenance Factor           |        | LLMF              | Lamp Lumens Maintenance Factor  |        |
| LMF <sup>a</sup>   | Luminaire Maintenance Factor |        | LSF               | Lamp Survival Factor            |        |

<sup>a</sup> According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

### Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10                            | 18                 |
| B13                            | 24                 |
| B16                            | 30                 |
| B20                            | 37                 |
| C10                            | 31                 |
| C13                            | 40                 |
| C16                            | 51                 |
| C20                            | 62                 |



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### Mounting accessories

#### LINEAR CONNECTOR surface

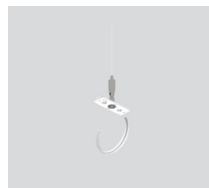
| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical              | pure white | 60     | 058-3013117       |
| mechanical              | jet black  | 60     | 058-3013118       |
| mechanical & electrical | pure white | 60     | 058-3013127       |
| mechanical & electrical | jet black  | 60     | 058-3013128       |



60 18 7

#### LINEAR CONNECTOR suspended

| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical              | pure white | 60     | 058-3013217       |
| mechanical              | jet black  | 60     | 058-3013218       |
| mechanical & electrical | pure white | 60     | 058-3013227       |
| mechanical & electrical | jet black  | 60     | 058-3013228       |



60 18 7

#### L CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018727       |
| mechanical & electrical | jet black  | 058-3018728       |



#### T CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018827       |
| mechanical & electrical | jet black  | 058-3018828       |



#### X CONEX CONNECTOR

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| mechanical & electrical | pure white | 058-3018927       |
| mechanical & electrical | jet black  | 058-3018928       |



#### CONEX FLEX CONNECTOR

| TYPE                    | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|-------------------------|------------|--------|-------------------|
| mechanical & electrical | pure white | 60     | 058-3018627       |
| mechanical & electrical | jet black  | 60     | 058-3018628       |



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## Mounting accessories

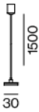
### CEILING MOUNTING SET

| COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|------------|------------|-------------------|
| pure white | 75-20-10   | 058-3014117       |
| jet black  | 75-20-10   | 058-3014118       |



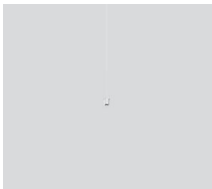
### CABLE SUSPENSION

| TYPE                              | COLOUR | ARTICLE NUMBER(S) |
|-----------------------------------|--------|-------------------|
| cable suspension                  | chrome | 058-3014210       |
| cable suspension                  | black  | 058-3014218       |
| cable suspension angular max. 60° | chrome | 058-3014310       |
| cable suspension angular max. 60° | black  | 058-3014318       |



### CONNECTOR CABLE SUSPENSION

| COLOUR | ARTICLE NUMBER(S) |
|--------|-------------------|
| chrome | 058-3018110       |
| black  | 058-3018118       |



### CANOPY

| COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|------------|--------|-------------------|
| pure white | 90     | 005-2600037       |
| jet black  | 90     | 005-2600038       |



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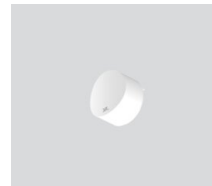
Count / Date

## Electrical accessories

### END CAP POWER FEEDER surface

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3010217  
058-3010218



### MIDDLE POWER FEEDER surface

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3011217  
058-3011218



### END CAP POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3010417  
058-3010418



### MIDDLE POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3011317  
058-3011318



### L CONEX POWER FEEDER suspended

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3018737  
058-3018738



## Electrical accessories

### ESSENTIAL SENSOR

TYPE  
brightness & presence  
brightness & presence

COLOUR  
pure white  
jet black

L-W-H (MM)  
90-60-65  
90-60-65

ARTICLE NUMBER(S)  
058-3019117  
058-3019118



### SENSE SENSOR

TYPE  
brightness, presence, temperature, sound pressure, humidity, CO2  
brightness, presence, temperature, sound pressure, humidity, CO2

COLOUR  
pure white  
jet black

ARTICLE NUMBER(S)  
058-3019217  
058-3019218



[058-30356380] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.  
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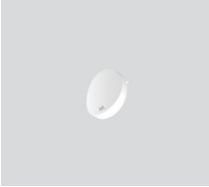
Notes

Count / Date

### Optical accessories

#### END CAP

| COLOUR     | ARTICLE NUMBER(S) |
|------------|-------------------|
| pure white | 058-3010017       |
| jet black  | 058-3010018       |

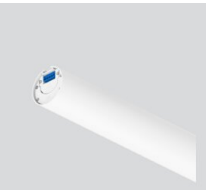


ø 60  
12

### Optical accessories

#### BLIND CHANNEL standard

| TYPE                                 | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--------------------------------------|------------|------------|-------------------|
| plug / socket   incl. through wiring | pure white | 585-60-60  | 058-4922037       |
| plug / socket   incl. through wiring | jet black  | 585-60-60  | 058-4922038       |
| plug / socket   incl. through wiring | pure white | 1185-60-60 | 058-4924037       |
| plug / socket   incl. through wiring | jet black  | 1185-60-60 | 058-4924038       |
| plug / socket   incl. through wiring | pure white | 2351-60-60 | 058-4928037       |
| plug / socket   incl. through wiring | jet black  | 2351-60-60 | 058-4928038       |
| plug / socket   incl. through wiring | pure white | 2936-60-60 | 058-4929037       |
| plug / socket   incl. through wiring | jet black  | 2936-60-60 | 058-4929038       |



#### BLIND CHANNEL CONEX L/T/X

| TYPE                                   | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--|------------|------------|-------------------|
| socket / socket   incl. through wiring | pure white | 585-60-60  | 058-4932037       |
| socket / socket   incl. through wiring | jet black  | 585-60-60  | 058-4932038       |
| socket / socket   incl. through wiring | pure white | 1185-60-60 | 058-4934037       |
| socket / socket   incl. through wiring | jet black  | 1185-60-60 | 058-4934038       |
| socket / socket   incl. through wiring | pure white | 2351-60-60 | 058-4938037       |
| socket / socket   incl. through wiring | jet black  | 2351-60-60 | 058-4938038       |
| socket / socket   incl. through wiring | pure white | 2936-60-60 | 058-4939037       |
| socket / socket   incl. through wiring | jet black  | 2936-60-60 | 058-4939038       |

