

# TUBO 60 CONEX plug / socket

surface / suspended system  
058-30295380



Project / Type

Notes

Count / Date



### General

Ceiling / Wall , Surface

black , RAL 9005 <sup>1</sup>

IP20

7880 lm

2680 lm/m

### LED

3000 K

CRI ≥ 80

L90 / 50000 h

initial MacAdam ≤ 3 SDCM

MR 0.56

MDER 0.51

### Optical

High Performance Opal

opal (lambertsch)

PstLM ≤ 1.0 <sup>2</sup>

SVM ≤ 0.4 <sup>2</sup>

### Electrical

DALI-2

220-240 V

system 67 W

system 118 lm/W<sup>3</sup>

PC1

1 DALI Addr.

23 W/m

### Physical

length 2936 mm

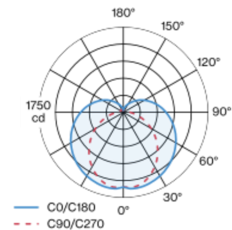
width 60 mm

height 60 mm

6 kg

Carrier profile made of extruded aluminium profile; converter integrated into luminaire housing; for continuous lighting systems; surface 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 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 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;

### Light distribution



### Product drawing



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> incl. consideration of optical losses, internal control unit losses & operating device efficiency

### 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 Faktor            |        |

<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                            | 12                 |
| B13                            | 16                 |
| B16                            | 20                 |
| B20                            | 25                 |
| C10                            | 20                 |
| C13                            | 27                 |
| C16                            | 34                 |
| C20                            | 41                 |

## Mounting accessories

### LINEAR CONNECTOR

| TYPE   | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|--|------------|------------|-------------------|
| mechanical   incl. opal cover connector              | pure white |            | 058-3013117       |
| mechanical   incl. opal cover connector              | jet black  |            | 058-3013118       |
| mechanical & electrical   incl. opal cover connector | pure white |            | 058-3013127       |
| mechanical & electrical   incl. opal cover connector | jet black  |            | 058-3013128       |
| mechanical   incl. opal cover connector              | pure white | 60-18-7    | 058-3013217       |
| mechanical   incl. opal cover connector              | jet black  | 60-18-7    | 058-3013218       |
| mechanical & electrical   incl. opal cover connector | pure white | 37-23-10   | 058-3013227       |
| mechanical & electrical   incl. opal cover connector | jet black  | 37-23-10   | 058-3013228       |

### 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

| COLOUR     | ARTICLE NUMBER(S) |
|------------|-------------------|
| pure white | 058-3018627       |
| jet black  | 058-3018628       |



[058-30295380] 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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### 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) |
|------------------|--------|-------------------|
|                  | chrome | 058-3014210       |
|                  | black  | 058-3014218       |
| angular max. 60° | chrome | 058-3014310       |
| angular max. 60° | black  | 058-3014318       |



### CONNECTOR CABLE SUSPENSION

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



### CANOPY

| TYPE   | COLOUR     | Ø (MM) | ARTICLE NUMBER(S) |
|--------|------------|--------|-------------------|
| DALI-2 | pure white | 90     | 005-2600037       |
| DALI-2 | jet black  | 90     | 005-2600038       |



## Electrical accessories

### END CAP POWER FEEDER

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
|                         | pure white | 058-3010217       |
|                         | jet black  | 058-3010218       |
| 5 × 1.5 mm <sup>2</sup> | pure white | 058-3010417       |
| 5 × 1.5 mm <sup>2</sup> | jet black  | 058-3010418       |



### MIDDLE POWER FEEDER

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
|                         | pure white | 058-3011217       |
|                         | jet black  | 058-3011218       |
| 5 × 1.5 mm <sup>2</sup> | pure white | 058-3011317       |
| 5 × 1.5 mm <sup>2</sup> | jet black  | 058-3011318       |



### L CONEX POWER FEEDER

| TYPE                    | COLOUR     | ARTICLE NUMBER(S) |
|-------------------------|------------|-------------------|
| 5 × 1.5 mm <sup>2</sup> | pure white | 058-3018737       |
| 5 × 1.5 mm <sup>2</sup> | jet black  | 058-3018738       |



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### ESSENTIAL SENSOR

| TYPE                  | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|-----------------------|------------|------------|-------------------|
| brightness & presence | pure white | 90-60-65   | 058-3019117       |
| brightness & presence | jet black  | 90-60-65   | 058-3019118       |



### SENSE SENSOR

| TYPE   | COLOUR     | ARTICLE NUMBER(S) |
|--|------------|-------------------|
| brightness, presence, temperature, sound pressure, humidity, CO2 | pure white | 058-3019217       |
| brightness, presence, temperature, sound pressure, humidity, CO2 | jet black  | 058-3019218       |



## Optical accessories

### END CAP

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



## Optical accessories

### BLIND CHANNEL standard

| TYPE                 | COLOUR     | L-W-H (MM) | ARTICLE NUMBER(S) |
|----------------------|------------|------------|-------------------|
| incl. through wiring | pure white | 585-60-60  | 058-4922037       |
| incl. through wiring | jet black  | 585-60-60  | 058-4922038       |
| incl. through wiring | pure white | 1185-60-60 | 058-4924037       |
| incl. through wiring | jet black  | 1185-60-60 | 058-4924038       |
| incl. through wiring | pure white | 2351-60-60 | 058-4928037       |
| incl. through wiring | jet black  | 2351-60-60 | 058-4928038       |
| incl. through wiring | pure white | 2936-60-60 | 058-4929037       |
| 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) |
|----------------------|------------|------------|-------------------|
| incl. through wiring | pure white | 585-60-60  | 058-4932037       |
| incl. through wiring | jet black  | 585-60-60  | 058-4932038       |
| incl. through wiring | pure white | 1185-60-60 | 058-4934037       |
| incl. through wiring | jet black  | 1185-60-60 | 058-4934038       |
| incl. through wiring | pure white | 2351-60-60 | 058-4938037       |
| incl. through wiring | jet black  | 2351-60-60 | 058-4938038       |
| incl. through wiring | pure white | 2936-60-60 | 058-4939037       |
| incl. through wiring | jet black  | 2936-60-60 | 058-4939038       |

