



Project / Type

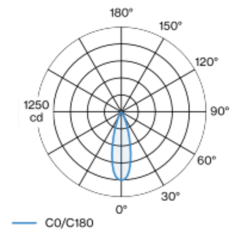
Notes

Count / Date



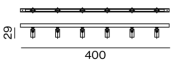
Miniature linear light inset made of aluminium; tubular design; surface lacquered in black; optionally for recessed or surface mounting (available as an accessory); plug and play electrical connector system for toolless mounting; different connectors for mechanical and electrical connection available - for flexible system design (available as an accessory); equipped with miniature spotlight heads; spotlight heads 360° rotatable and 90° tiltable; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 95 ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 30° beam; light inset rotatable; degree of protection IP20; PC3 24V; accessories are listed separately; light source replaceable by an authorized professional;

Light distribution



| medium 30° | | |
|------------|----------|-------|
| h (m) | E0° (lx) | ø (m) |
| 1 | 1000 | 0.54 |
| 2 | 250 | 1.07 |
| 3 | 110 | 1.61 |
| 4 | 60 | 2.15 |
| 5 | 40 | 2.68 |

Product drawing



24V

360°

X-PERT

UGR ≤ 13

cd/m² ≤ 1500

CRI ≥ 95

General

Showcase , Recessed

tilt max 90°

rotation 360°

black , RAL9021¹

IP20

Interior

330 lm

LED

3000 K

CRI ≥ 95

L85 / 50000 h

initial MacAdam ≤ 3 SDCM

R_g: 102 , R_r: 94 , R₍₁₋₁₅₎: 95

MR 0.61

MDER 0.55

Optical

medium

beam angle 30°

Electrical

excl. driver

24 V

4.7 W

PC3 24V

inset 106 lm/W

24 V

Physical

length 400 mm

width 11 mm

height 29 mm

¹ RAL code

Installation instructions





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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF | 0.983 | 0.957 | 0.931 | 0.906 | 0.881 |
| LSF | 1 | 1 | 1 | 1 | 1 |

| | | | |
|------------------|------------------------------|-------------------|---------------------------------|
| MF | LMF × RSMF × LLMF × LSF | RSMF ^a | Room Surface Maintenance Factor |
| MF | Maintenance Factor | LLMF | Lamp Lumens Maintenance Factor |
| LMF ^a | Luminaire Maintenance Factor | LSF | Lamp Survival Faktor |

^a 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.

Mounting accessories

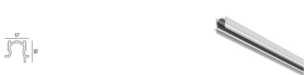
MOUNTING CHANNEL 90

| TYPE | COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 230 mm | white aluminium | 230-17-11 | 011-9100206 |
| 230 mm | black | 230-17-11 | 011-9100208 |
| 430 mm | white aluminium | 430-17-11 | 011-9100306 |
| 430 mm | black | 430-17-11 | 011-9100308 |
| 630 mm | white aluminium | 630-17-11 | 011-9100406 |
| 630 mm | black | 630-17-11 | 011-9100408 |
| 830 mm | white aluminium | 830-17-11 | 011-9100506 |
| 830 mm | black | 830-17-11 | 011-9100508 |
| 1030 mm | white aluminium | 1030-17-11 | 011-9100606 |
| 1030 mm | black | 1030-17-11 | 011-9100608 |
| 1230 mm | white aluminium | 1230-17-11 | 011-9100706 |
| 1230 mm | black | 1230-17-11 | 011-9100708 |



MOUNTING CHANNEL 90 ANTI-GLARE

| TYPE | COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 230 mm | white aluminium | 230-17-15 | 011-9101206 |
| 230 mm | black | 230-17-15 | 011-9101208 |
| 430 mm | white aluminium | 430-17-15 | 011-9101306 |
| 430 mm | black | 430-17-15 | 011-9101308 |
| 630 mm | white aluminium | 630-17-15 | 011-9101406 |
| 630 mm | black | 630-17-15 | 011-9101408 |
| 830 mm | white aluminium | 830-17-15 | 011-9101506 |
| 830 mm | black | 830-17-15 | 011-9101508 |
| 1030 mm | white aluminium | 1030-17-15 | 011-9101606 |
| 1030 mm | black | 1030-17-15 | 011-9101608 |
| 1230 mm | white aluminium | 1230-17-15 | 011-9101706 |
| 1230 mm | black | 1230-17-15 | 011-9101708 |





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Mounting accessories

MOUNTING CHANNEL 60

| TYPE | COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 230 mm | white aluminium | 230-40-11 | 011-9102206 |
| 230 mm | black | 230-40-11 | 011-9102208 |
| 430 mm | white aluminium | 430-40-11 | 011-9102306 |
| 430 mm | black | 430-40-11 | 011-9102308 |
| 630 mm | white aluminium | 630-40-11 | 011-9102406 |
| 630 mm | black | 630-40-11 | 011-9102408 |
| 830 mm | white aluminium | 830-40-11 | 011-9102506 |
| 830 mm | black | 830-40-11 | 011-9102508 |
| 1030 mm | white aluminium | 1030-40-11 | 011-9102606 |
| 1030 mm | black | 1030-40-11 | 011-9102608 |
| 1230 mm | white aluminium | 1230-40-11 | 011-9102706 |
| 1230 mm | black | 1230-40-11 | 011-9102708 |



Mounting accessories

MOUNTING CHANNEL 45

| TYPE | COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 230 mm | white aluminium | 230-17-11 | 011-9103206 |
| 230 mm | black | 230-17-11 | 011-9103208 |
| 430 mm | white aluminium | 430-17-11 | 011-9103306 |
| 430 mm | black | 430-17-11 | 011-9103308 |
| 630 mm | white aluminium | 630-17-11 | 011-9103406 |
| 630 mm | black | 630-17-11 | 011-9103408 |
| 830 mm | white aluminium | 830-17-11 | 011-9103506 |
| 830 mm | black | 830-17-11 | 011-9103508 |
| 1030 mm | white aluminium | 1030-17-11 | 011-9103606 |
| 1030 mm | black | 1030-17-11 | 011-9103608 |
| 1230 mm | white aluminium | 1230-17-11 | 011-9103706 |
| 1230 mm | black | 1230-17-11 | 011-9103708 |



MOUNTING CHANNEL 45 JUT-OUT

| TYPE | COLOUR | L-W-H (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|------------|-------------------|
| 230 mm | white aluminium | 230-17-18 | 011-9104206 |
| 230 mm | black | 230-17-18 | 011-9104208 |
| 430 mm | white aluminium | 430-17-18 | 011-9104306 |
| 430 mm | black | 430-17-18 | 011-9104308 |
| 630 mm | white aluminium | 630-17-18 | 011-9104406 |
| 630 mm | black | 630-17-18 | 011-9104408 |
| 830 mm | white aluminium | 830-17-18 | 011-9104506 |
| 830 mm | black | 830-17-18 | 011-9104508 |
| 1030 mm | white aluminium | 1030-17-18 | 011-9104606 |
| 1030 mm | black | 1030-17-18 | 011-9104608 |
| 1230 mm | white aluminium | 1230-17-18 | 011-9104706 |
| 1230 mm | black | 1230-17-18 | 011-9104708 |





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Mounting accessories

MOUNTING CLIP 90

| TYPE | COLOUR | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9100006 |
| surface | black | 011-9100008 |



MOUNTING CLIP 60

| TYPE | COLOUR | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9102006 |
| surface | black | 011-9102008 |



MOUNTING CLIP 45

| TYPE | COLOUR | ARTICLE NUMBER(S) |
|---------|-----------------|-------------------|
| surface | white aluminium | 011-9103006 |
| surface | black | 011-9103008 |



Mounting accessories

MOUNTING TOOL

| ARTICLE NUMBER(S) |
|-------------------|
| 011-9190000 |

Mounting accessories

BLIND INSET

| TYPE | COLOUR | Ø (MM) | ARTICLE NUMBER(S) |
|---------|-----------------|--------|-------------------|
| 200 mm | white aluminium | 9 | 011-9109206 |
| 200 mm | black | 9 | 011-9109208 |
| 400 mm | white aluminium | 9 | 011-9109306 |
| 400 mm | black | 9 | 011-9109308 |
| 600 mm | white aluminium | 9 | 011-9109406 |
| 600 mm | black | 9 | 011-9109408 |
| 800 mm | white aluminium | 9 | 011-9109506 |
| 800 mm | black | 9 | 011-9109508 |
| 1000 mm | white aluminium | 9 | 011-9109606 |
| 1000 mm | black | 9 | 011-9109608 |
| 1200 mm | white aluminium | 9 | 011-9109706 |
| 1200 mm | black | 9 | 011-9109708 |





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Electrical accessories

POWER SUPPLY 24V EU

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|----------------|------------|-------------------|
| 18 W non dim | 130-43-30 | 011-9212110 |
| 35 W non dim | 195-43-30 | 011-9212210 |
| 60 W non dim | 220-43-30 | 011-9212310 |
| 18 W DALI-2 | 130-43-30 | 011-9212130 |
| 35 W DALI-2 | 195-43-30 | 011-9212230 |
| 60 W DALI-2 | 220-43-30 | 011-9212330 |



POWER SUPPLY 24V UL

| TYPE | L-W-H (MM) | ARTICLE NUMBER(S) |
|----------------|------------|-------------------|
| 20 W non dim | 153-41-32 | 011-9282110 |
| 40 W non dim | 210-40-30 | 011-9282210 |
| 60 W non dim | 250-40-30 | 011-9282310 |
| 60 W 1-10 V | 176-45-32 | 011-9282320 |
| 60 W DALI-2 | 176-45-32 | 011-9282330 |



Electrical accessories

FLEX CONNECTOR

| TYPE | ARTICLE NUMBER(S) |
|------------------|-------------------|
| electrical | 011-9225100 |
| electrical 90° | 011-9225200 |



LINEAR CONNECTOR

| TYPE | ARTICLE NUMBER(S) |
|------------|-------------------|
| electrical | 011-9225300 |



Electrical accessories

EXTENSION CABLE

| TYPE | ARTICLE NUMBER(S) |
|---------------------------|-------------------|
| 1 × socket / 1 × plug | 011-9222120 |
| 1 × socket / 1 × plug | 011-9222140 |
| 1 × socket / 1 × plug | 011-9222180 |
| 1 × socket / 1 × plug 90° | 011-9222220 |
| 1 × socket / 1 × plug 90° | 011-9222240 |
| 1 × socket / 1 × plug 90° | 011-9222280 |