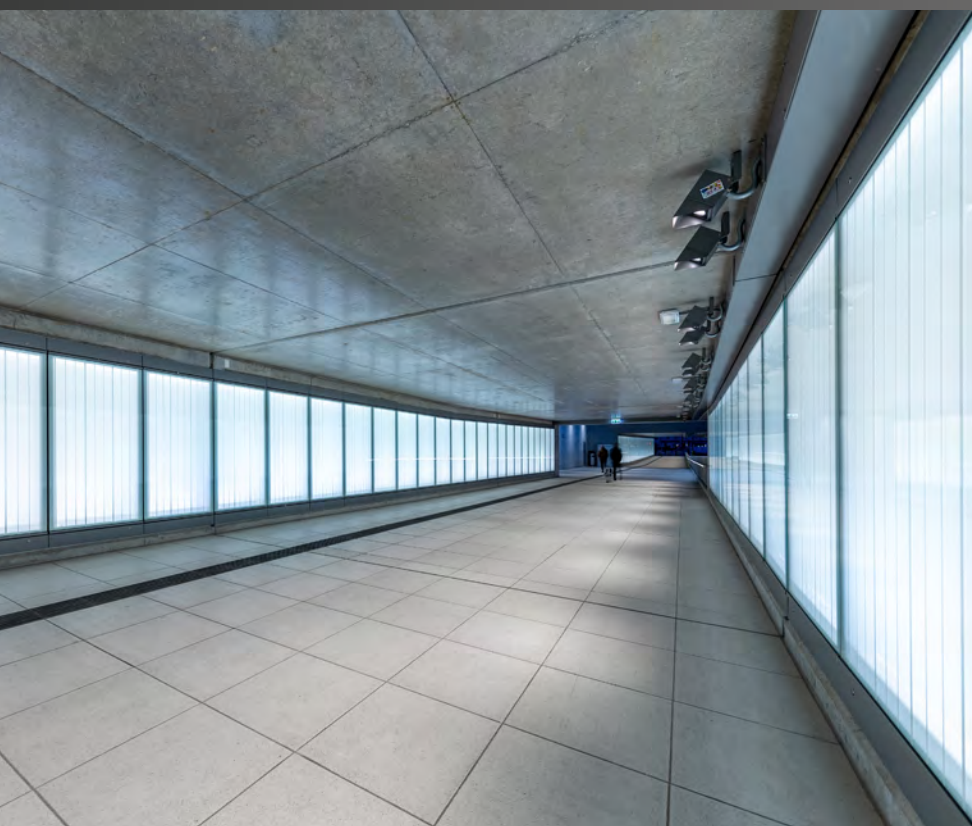




Infrastructure and public spaces

Robust luminaires with high IP protection
and protection class II



InstaLighting



Lighting enhances both objective and perceived safety in public spaces. It ensures that potential hazards are spotted in good time while simultaneously contributing to the architectural design. Lighting systems in transport infrastructure are subjected to extreme stress and must be resilient against vandalism, significant temperature fluctuations, and mechanical impact.

InstaLighting offers efficient, certified lighting solutions for platforms, traffic routes, underpasses, bridges, and pedestrian and cycle paths—combining aesthetic appeal with durability and efficiency.



Lighting solutions developed and manufactured in Germany.

InstaLighting GmbH
Oststraße 14-16
59929 Brilon

Tel. + 49 2351 65619-0
info@instalighting.de
www.instalighting.de

Brochure for infrastructure and public spaces

Outdoor spotlights	p. 3
Handrail light inserts	p. 10
Light and facade lines	p. 16
In-ground lights	p. 20
Wall luminaires	p. 26
Outdoor downlights	p. 28
Power supply unit overview	p. 32

Order code generator

The order code for the products is composed as follows:

Product designation

Light color

Optic

Length

Example:

OHR1 LH3

2700

SYM diffus

385



Willemshoofdbrug, Rotterdam
OS1 3050, Outdoor spotlights
OS3 1065 A, Outdoor spotlights
LEDLUX LN, Light and facade lines
LEDLUX LX, Light and facade lines
QLL1 4010 LH3, Light and facade lines

Outdoor spotlights

- precise LED spotlights for accent and object lighting
- robust designs for outdoor use
- various sizes and power ratings
- narrow to wide beam angles
- Mono, Tunable White, RGB, and RGBW versions
- high light quality and efficiency
- flicker-free dimming

Outdoor spotlights

OS1 3050

Voltage



Light color



Optics and light distribution



Luminous flux and power

@3.000K	
10°	4.400 lm
30°	4.100 lm
68°	3.850 lm
	42 W

Characteristics



Connection type

Free cable end / Wieland RST 20 connector

Color rendering

typ. 85

Housing material

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

Controllable/Dimmabler

DALI / DMX, On / Off

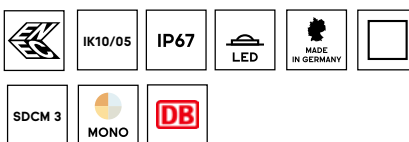
Dimensions (mm)

L	W	H
185	225	245

OS2 3065 DB



@4.000K	
10°	980 lm
30°	910 lm
54°	860 lm
12°x41°	960 lm
	9,5 W



Screw terminals

typ. 85

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

Switchable

L	W	H
105	110	167

Order code:

Product designation

OS...

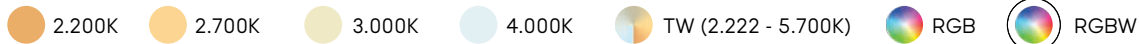
Light color

...

Optic

...

Light Color Legend



OS3 1065 A



OS3 1065 B



OS3 1065 DB



@3.000K

10°	5.020 lm
29°	4.800 lm
40°	4.520 lm
66°	4.720 lm
3D 48°x12°	4.780 lm
4D 11°x44°	4.560 lm
5D 11°x41°	4.750 lm

53 W

@3.000K

10°	2.510 lm
29°	2.400 lm
40°	2.260 lm
66°	2.360 lm
3D 48°x12°	2.390 lm
4D 11°x44°	2.280 lm
5D 11°x41°	2.375 lm

27,8 W

@4.000K

10°	1.800 lm
29°	2.000 lm
40°	2.000 lm
3D 10°x12°	1.800 lm
4D 11°x44°	1.600 lm
5D 11°x41°	1.800 lm

28 W



Connector / free cable end

typ. 85

Aluminium

Retaining bracket:

Stainless steel 1.4571 (V4A)

1 – 100% via DALI/DMX

L	W	H
920	70	164



Connector / free cable end

typ. 85

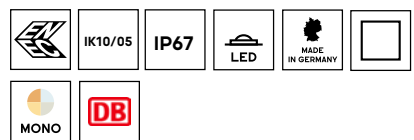
Aluminium

Retaining bracket:

Stainless steel 1.4571 (V4A)

1 – 100% via DALI/DMX

L	W	H
500	70	164



Screw terminals

typ. 85

Aluminium, single-pane safety glass

On / Off, Switchable

L	W	H
500	70	164

Available on request: OS3 1065 A and OS3 1065 B are available in monochrome, Protection Class II, with ENEC certification / with DALI

Outdoor spotlights

OS4 2x2

Voltage



Light color



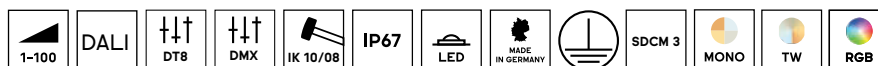
Optics and light distribution



Luminous flux and power

@3.000K	
13°	1.340 lm
30°	1.340 lm
57°	1.510 lm
72°	1.340 lm
wallwash m	1.220 lm
wallwash f	1.220 lm
20,5 W	

Characteristics



Connection type

Free cable end

Color rendering

typ. 92

Housing material

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

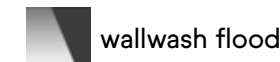
Controllable/Dimmable

DALI, DT8, DMX-RDM

Dimensions (mm)

L	W	H
190	40	245

OS4 1x12



@3.000K	
13°	4.020 lm
30°	4.020 lm
57°	4.530 lm
72°	4.020 lm
wallwash m	3.660 lm
wallwash f	3.660 lm
66 W	

Free cable end

typ. 92

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

DALI, DT8, DMX-RDM

L	W	H
550	40	245

Order code:

Product designation

OS...

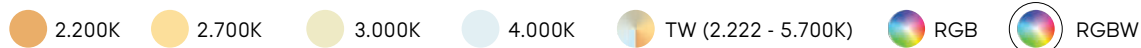
Light color

...

Optic

...

Light Color Legend



OS4 2x12

⚡ 230V



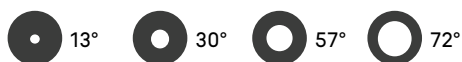
OS5 1x2

⚡ 28V (plus power supply unit)



OS5 1x4

⚡ 28V (zzgl. Netzteil)



wallwash medium



wallwash flood

@3.000K

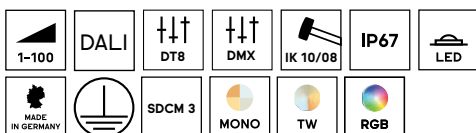
13°	6.160 lm
30°	6.160 lm
57°	7.000 lm
72°	6.160 lm
wallwash m	5.460 lm
wallwash f	5.460 lm
	93 W

@3.000K

13°	550 lm
30°	550 lm
57°	735 lm
72°	460 lm
wallwash m	415 lm
wallwash f	415 lm
	11,1 W

@3.000K

13°	1.100 lm
30°	1.100 lm
57°	1.470 lm
72°	920 lm
wallwash m	830 lm
wallwash f	830 lm
	22,2 W



Free cable end

typ. 92

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

DALI, DT8, DMX-RDM

L	W	H
550	40	245



Free cable end

typ. 92

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

1 – 100% via D-Wire

L	W	H
95	50	100

Free cable end

typ. 92

Aluminium, single-pane safety glass
Retaining bracket:
Stainless steel 1.4571 (V4A)

1 – 100% via D-Wire

L	W	H
177	50	100

Spotlight and Floodlight Variants

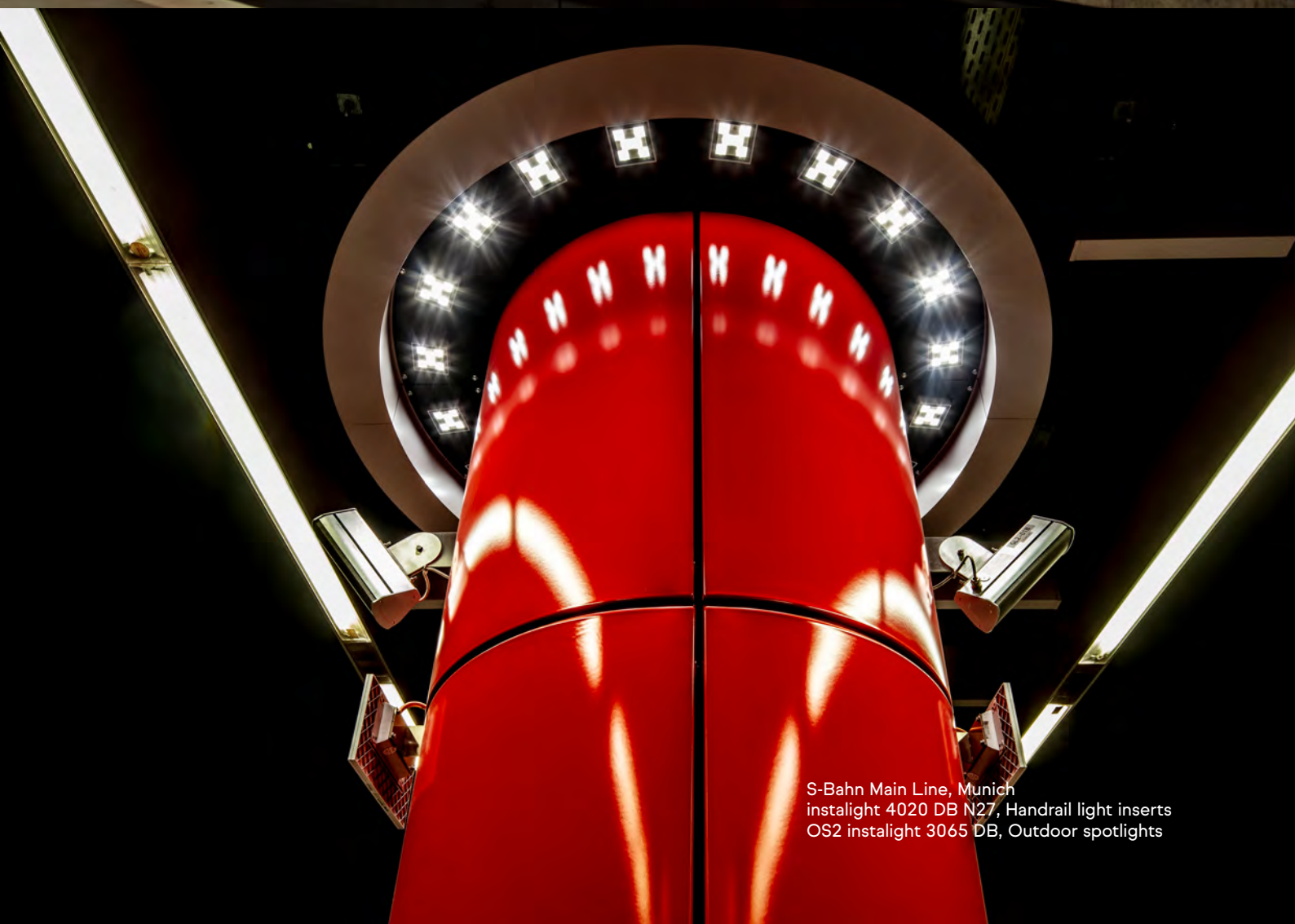
Our spotlights and floodlights offer versatile application options.
There are no limits to your creativity.

If you have a project that requires customized lighting solutions, please
feel free to contact us!

OS4 as a pole-mounted
luminaire



← OS5 as a pole-mounted
luminaire



S-Bahn Main Line, Munich
instalight 4020 DB N27, Handrail light inserts
OS2 instalight 3065 DB, Outdoor spotlights

Handrail lighting inserts

- Standardized profile made of highly durable V4A stainless steel
- Compatible with all standard handrail systems
- Encapsulation technology protects against dirt and moisture
- Wide range of visual finishes and light colors
- Various sizes available – linkable
- 230V version requires no power supply, saving installation time & space



Metro, Paris
OHR3, Handrail light inserts

Handrail light inserts

OHR1 LH3

Voltage



230V



Light color



Optics and light distribution



Symmetric clear



Asymmetric clear



Symmetric diffuse

Luminous flux and power

@3.000K	L1	L2
SYM / clear	310 lm/m	815 lm/m
ASYM / clear	290 lm/m	770 lm/m
	4,4 W/m	10 W/m

OHR1 LS



28V (plus power supply unit)



Symmetric clear



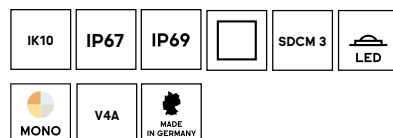
Asymmetric clear



Symmetric diffuse

@3.000K:	
SYM / clear	1.620 lm/m; 16 W/m
ASYM / clear	1.620 lm/m; 16 W/m

Characteristics



Connection type

Crimp connector

Color rendering

typ. 90

Housing material

Stainless steel 1.4571 (V4A)

Controllable/Dimmable

trailing-edge

Dimensions (mm)

Installation dimensions (mm)

Selectable modular lengths: 385, 710, 1035, 1360 (special lengths and maximum length: 1845 mm on request)

L	W	H
modular	27	30 for 48 mm grooved pipe
	24	24 for 42mm grooved pipe

L	W	H
modular	27	30 for 48 mm grooved pipe
	24	24 for 42mm grooved pipe

On request: minimalist surface-mounted profile or concrete-embedded profile.

Order code:

Product designation

OHR...

Light color

...

Optic

...

Length & Slot Size (Width)

...

Light Color Legend



2.200K



2.700K



3.000K



4.000K



TW (2.222 - 5.700K)



RGB



RGBW

instalight 4020 DB LS KL48

 28V (plus power supply unit)



 **Symmetric**
clear

 **Symmetric**
diffuse

DB-certified:

385mm @4.000K:

100%	305 lm	3,7 W
75%	250 lm	2,8 W
50%	170 lm	1,9 W
25%	85 lm	1,0 W

instalight 4020 DB LS KL42

 28V (plus power supply unit)

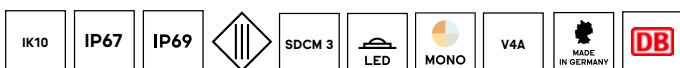


 **Symmetric**
clear

 **Symmetric**
diffuse

385mm @4.000K:

75%	250 lm	2,8 W
50%	170 lm	1,9 W
25%	85 lm	1,0 W



Connector

typ. 85

Stainless steel 1.4571 (V4A)

On / Off, dimmable on request

Connector

typ. 85

Stainless steel 1.4571 (V4A)

On / Off, dimmable on request

Installation dimensions (mm)

Selectable modular lengths: 385, 710, 1035, 1360 (special lengths and maximum length: 1845 mm on request)

L	W	H		L	W	H	
modular	27	30	for 48 mm grooved pipe	modular	24	24	for 42 mm grooved pipe

Handrail light inserts

OHR2

Voltage

 48V (plus power supply unit)



Light color



Optics and light distribution



Asymmetric
1 (Wallwash)



Asymmetric
2 (handrail)



Narrow
15°x65°

Luminous flux and power

@3.000K:	L1	L2
ASYM 01	410 lm/m	1050 lm/m
ASYM 02	500 lm/m	1300 lm/m
15°x65°	410 lm/m	1050 lm/m
	8 W/m	20 W/m

Characteristics



Connection type

Connector IP67

Color rendering

typ. 92

Housing material

Stainless steel 1.4571 (V4A)

Controllable/Dimmable

D-Wire

Dimensions (mm)

Installation dimensions (mm) – special lengths on request

L	W	H
385	27	30 for 48 mm grooved pipe
710		
1035		

OHR3

 28V (plus power supply unit)



Symmetric
clear



Asymmetric
clear



Symmetric
diffuse

@3.000K N27:

SYM	885 lm/m
ASYM	1045 lm/m
	18,6 W/m

@4.000K N24:

SYM	930 lm/m
ASYM	1100 lm/m
	18,6 W/m



Tyco plug / socket (lead: 300 mm)

typ. 85

Stainless steel 1.4571 (V4A)

PWM

Order code:

Product designation

OHR...

Light color

...

Optic

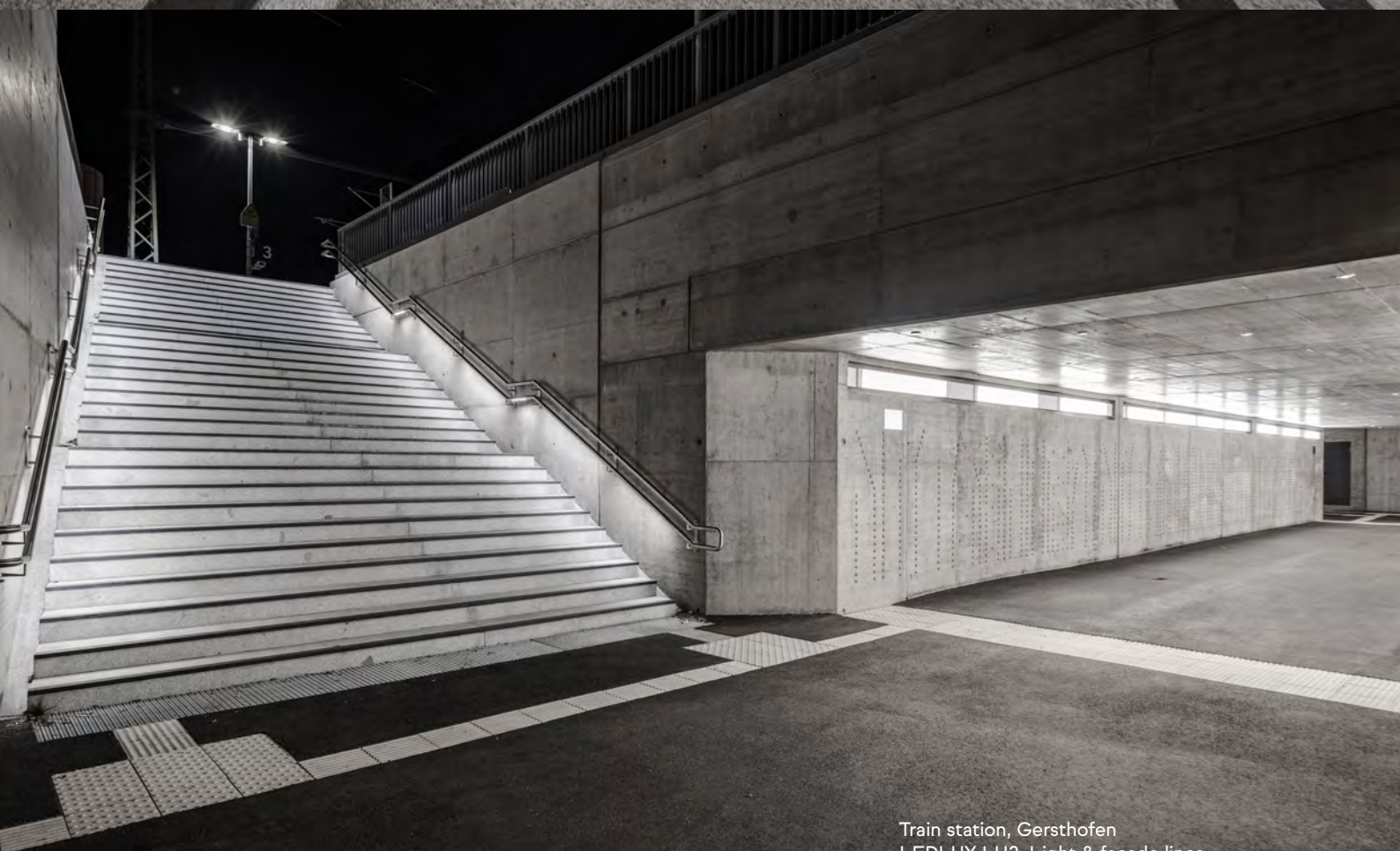
...

Length & Slot Size
(Width)

...

Legende Lichtfarben

 2.200K
  2.700K
  3.000K
  4.000K
  TW (2.222 - 5.700K)
  RGB
  RGBW



Train station, Gersthofen
LEDLUX LH3, Light & facade lines
NoLimit LDF CC, Modular lighting system
instalight 4020 DB N27, Handrail light inserts

Light and facade lines

- linear LED light lines for outdoor areas
- uniform and homogeneous light distribution
- modular integration into architecture and facades
- various lengths and power ratings
- direct connection to 230V
- robust IP64 design for outdoor use



Fresenius Parking Garage, Bad Homburg
OLL1 LX, Light & facade lines

Light & facade lines

OLL1 4010 LH3

Voltage

 230V



Light color



Optics and light distribution



95°
clear



Microline

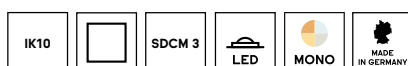


116°
diffuse

Luminous flux and power

@3.000K:
clear 95° 700 lm/m
Microline 900 lm/m
diffuse 116° 440 lm/m
10 W/m

Characteristics



Connection type

Free cable end

Color rendering

typ. 90

Housing material

Stainless steel 1.4301 (V2A)

Controllable/Dimmable

trailing-edge

Dimensions (mm)

L	W	H
individually	40	57

OLL2 / 4010 DB LS

 28V (plus power supply unit)



95°
clear

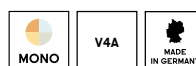


Microline



116°
diffuse

@4.000K, 840mm:
clear 95° 1.150 lm
Microline 980 lm
diffuse 116° 810 lm



Free cable end

typ. 85

Stainless steel 1.4301 (V2A)

On / Off, dimmable on request

L	W	H
individually	40	57

Order code:

Product designation

OLL...

Light color

...

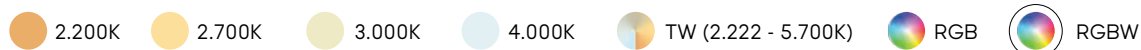
Optic

...

Length

...

Light Color Legend





Olaya Tower, Riad
OLL1, Light & facade lines

In-ground lights

- linear in-ground luminaires
- versions suitable for pedestrian and vehicular traffic
- robust V4A stainless steel housing
- precision optics for directional light
- 28V and 230V versions
- for pathway, facade, and plaza lighting
- high weather resistance and resistance to road salt



Domagkpark ,Munich
OGL1 LH, In-ground lights



EKISO - Square in front of the Immermannhof, Dusseldorf
OGL1 1060 LX, In-ground lights

In-ground lights

OGL1 1060

Voltage

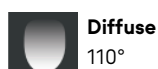
 28V (plus power supply unit)



Light color



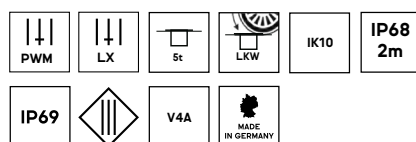
Optics and light distribution



Luminous flux and power

@2.700K, 3.000K, 4.000K; 1000mm: 900 lm
@TW; 1000mm: 678 lm
@RGB; 1000mm: 66, 120, 24 lm
@RGBW; 1000mm: 42, 66, 12, 135 lm

Characteristics



Connection type

Free cable end / IP67 connector ITT Cannon

Color rendering

typ. 85

Housing material

Stainless steel 1.4571 (V4A)

Controllable/Dimmable

DALI, On / Off, LEDTRIX

Dimensions (mm)

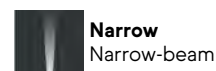
L	W	H
344	29	70
500		
1.000		

OGL2

 48V (plus power supply unit)



 in RGB as a 24V version (OGL2 LX))



@3.000K, 1000mm:	L1	L2
ASYM 1	410 lm	1050 lm
ASYM 2	500 lm	1300 lm
Narrow	410 lm	1050 lm
	8 W	20 W



Free cable end

typ. 92

Stainless steel 1.4571 (V4A)

D-Wire

L	W	H
350	29	65
515		
1.000		

Installation depth from 130 mm with mounting frame
optionally 170 mm

Order code:

Product designation

OGL...

Light color

...

Optic

...

Length

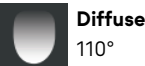
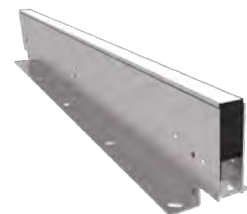
...

Light Color Legend



OGL4 LH3

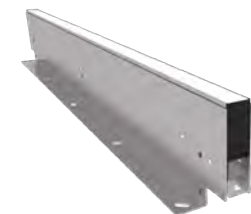
 230V



@3.000K:	L1	L2
	350 mm	130 lm; 3,3 W
	515 mm	195 lm; 6,6 W
	1.000 mm	390 lm; 10 W

OGL4 LS

 28V (plus power supply unit)



@2.700K / 3.000K / 4.000K:
300 lm; 7,2 W
450 lm; 8 W
900 lm; 16 W



Free cable end
>90
Stainless steel 1.4571 (V4A)
trailing-edge

L	W	H
350	29	65
515		
1.000		

Installation depth from 130 mm with mounting frame
optionally 170 mm

Free cable end
typ. 85
Stainless steel 1.4571 (V4A)
DALI, On / Off

L	W	H
350	29	65
515		
1.000		



Pedestrian zone, Unna
OGL1 1060, In-ground light



Stadthausbrücke S-Bahn station, Hamburg
OWL1 FATR DB, wall luminaires
Daytime lighting scenario

Wall luminaires

- flush-mounted outdoor wall luminaires
- specially designed for use in escalators
- discreet path and orientation lighting
- low-glare light distribution
- robust V4A stainless steel construction with IK10 rating
- weather-resistant with a high degree of protection
- various sizes and light emission options
- ideal for facades, stairs, and pathways

Wall luminaires

OWL1 FATR DB

Voltage

 28V (plus power supply unit)



Light color



Optics and light distribution

Asymmetric
Tilt angle (fixed-adjustable)



12°



32°



62°

Luminous flux and power

@4.000K	302 mm	462 mm	792 mm
12°	128 lm	260 lm	510 lm
32°	120 lm	245 lm	485 lm
62°	100 lm	190 lm	380 lm
	2,7 W	5,3 W	10,6 W

Characteristics



Connection type

IP67 connector I

Color rendering

typ. 85

Housing material

Stainless steel 1.4301 (V2A)

Controllable/Dimmable

On / Off, dimmable on request

Dimensions (mm)

L	W	H	Installation depth
302	59	200	59
462			65
792			65

Order code:

Product designation

OWL...

Light color

...

Optic

...

Length

...

Light Color Legend



2.200K



2.700K



3.000K



4.000K



TW (2.222 - 5.700K)



RGB



RGBW

Outdoor Downlights

- Recessed outdoor downlights
- Special radial Fresnel optics for light direction
- Compact design
- Weatherproof with IP65 protection rating with powder-coated stainless steel trim ring
- Flicker-free dimming
- High light quality and efficiency
- Ideal for canopies, entrances, and outdoor areas

Outdoor Downlights

ODL5 IP65

Voltage



Light color



Optics and light distribution



Luminous flux and power

@3.000K	L1	L2
	1.320 lm	2.100 lm
	13,9 W	23,6 W

Characteristics



Connection type

freies Leitungsende

Color rendering

typ, 90

Housing material

Aluminium / Stainless steel 1.4571 (V4A)

Controllable/Dimmable

Ein / Aus, DALI

Dimensions (mm)

Ø
144

Installation dimensions (mm)

Ø
min. 140

Installation dimensions – ceiling thickness

min. 2,00
max. 24,00

Order code:

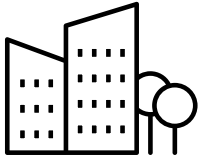
Product designation	Light color	Optic
ODL5 IP65...	...	...

Light Color Legend



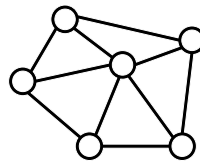
Building automation with KNX

The solution for complex lighting projects and the central control of multiple buildings.



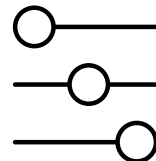
Mesh networks with Casambi

Controlling individual light points wirelessly via Bluetooth.



Integration of common control technologies

Full-service implementation of control concepts using DALI and DMX – from planning to commissioning.

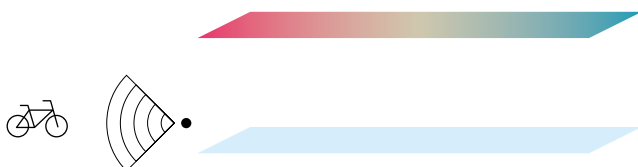
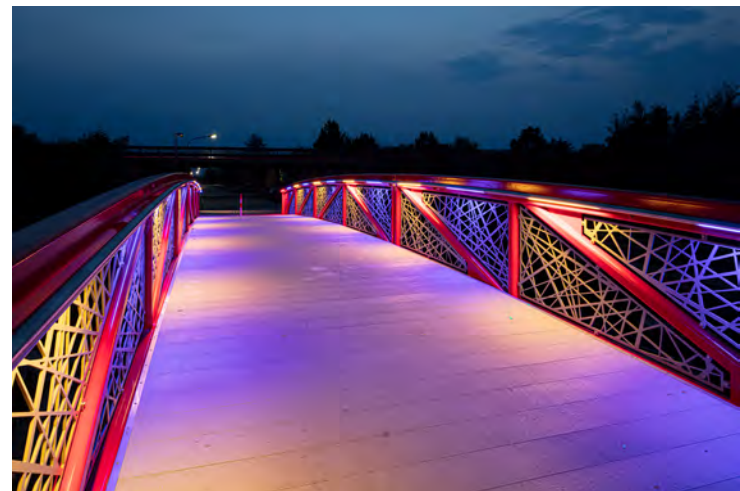


Staging and functionality

Dynamic control concepts

InstaLighting's control concepts make traffic routes intelligent. For instance, the energy consumption of a lighting system can be significantly reduced through the use of motion sensors without compromising safety.

In addition, digital, intelligent lighting control can reduce energy consumption while simultaneously enhancing the quality of the space. Lighting can thus dynamically adapt to a wide range of usage concepts. The Hunte Bridge in Diepholz, for example, shines in the colors of its French twin city, Thouars, or displays dynamic light sequences evoking the beach and sun, snowfall, or spring meadows—giving the bridge a constantly changing appearance. However, as soon as pedestrians or cyclists approach the bridge, their path across it is illuminated with white light in accordance with current DIN EN 13201 standards.



InstaLighting's control expertise

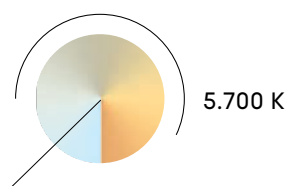
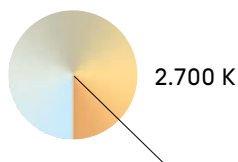
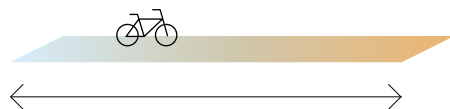
Our products are not only compatible with all standard control technologies; we also offer the corresponding services for planning, programming, and commissioning.

Safety and Aesthetics

Architecture for the Transport Transition

Expanding cycling and pedestrian paths, public transport, and rail infrastructure is of great importance for both the quality of urban life and effective climate action. In this context, comfort, safety, efficiency, simplicity, and architectural quality are the decisive factors in ensuring that new mobility concepts gain the necessary acceptance among the public.

High-quality lighting combined with intelligent control systems can make a significant contribution to this, creating an atmosphere of well-being that simultaneously meets the necessary functional requirements and lighting standards.



Dynamic lighting scenarios

on the Neckar Bridge in Stuttgart combine functional and architectural lighting requirements. The lighting can respond to users, showcase the movement of passing trains, and adapt to the needs of animals living along the riverbank.

Warm-white light

with reduced intensity and a high proportion of yellow, orange, or red wavelengths attracts fewer insects than cool light.

Cool-white light

with high-intensity increases the visibility of road users and, consequently, safety.

Power Supply Overview

Luminaire	compatible power supplies	Protection class	Dimensions (W x H x L)
OS5 1x2 / OS5 1x4	PSU 28V 20W	II	55 x 19 x 146
	DCV 090 30 IP66	II	180 x 110 x 254
	PSU 30V 150W IP67	I	68 x 39 x 228
	PSB 30V 2x150W DA-DW IP65	I	300 x 180 x 400
OHR1 LS	Für N27:		
	DCV 090 30 IP66	II	180 x 110 x 254
	PSU 28V 20W	II	55 x 19 x 146
	PSU 30V 150W IP67	I	68 x 39 x 228
	PSB 30V 2x150W DA-DW IP65	I	300 x 180 x 400
	Für N24:		
	PSU 28V 20W	II	55 x 19 x 146
	PSU 30V 150W IP67	I	68 x 39 x 228
	PSB 24V 60W DB IP66	II	100 x 81 x 320
	DCV 090 30 IP66	II	180 x 110 x 254
	PSB 30V 2x150W DA IP65	I	300 x 180 x 400
instalight 4020 DB LS KL48	DCV 090 30 IP66	II	180 x 110 x 254
	PSB 24V 60W DB IP66	II	100 x 81 x 320
instalight 4020 DB LS KL42	PSB 24V 60W DB IP66	II	100 x 81 x 320
	DCV 090 30 IP66	II	180 x 110 x 254
OHR2	PSU 48V 30W IP20	II	40 x 30 x 165
	PSU 48V 150W IP20	II	30 x 18 x 350
	PSU 48V 200W IP20	II	30 x 22 x 369
	PSU 48V 200W IP67	I	53,5 x 31,5 x 240
	PSB 48V 2x200W DALI-DW IP65	II	300 x 180 x 300
	PSB 48V 200W DALI-DW IP65	II	300 x 180 x 300
OHR3	Für N27 und N24:		
	DCV 090 30 IP66	II	180 x 110 x 254
	PSU 28V 20W	II	55 x 19 x 146
	PSU 30V 150W IP67	I	68 x 39 x 228
OLL2 / 4010 DB LS	PSB 24V 60W DB IP66	II	100 x 81 x 320
	DCV 090 30 IP66	II	180 x 110 x 254

Luminare	compatible power supplies	Protection class	Dimensions (W x H x L)
OGL1	Für @2.700K, 3.000K, 4.000K:		
	PSU 28V 20W	II	55 x 19 x 146
	PSU 30V 150W IP67	I	68 x 39 x 228
	PSB 24V 60W DB IP66	II	100 x 81 x 320
	Für TW, RGB; RGBW:		
	PSB 30V 2x120W DMX-LX IP65	I	300 x 180 x 300
OGL2	PSU 48V 30W IP20	II	40 x 30 x 165
	PSU 48V 150W IP20	II	30 x 18 x 350
	PSU 48V 200W IP20	II	30 x 22 x 369
	PSU 48V 200W IP67	I	53,5 x 31,5 x 240
	PSB 48V 200W DALI-DW IP65	II	300 x 180 x 300
	PSB 48V 2x200W DALI-DW IP65	II	300 x 180 x 300
OGL4 LS	PSU 28V 20W	II	55 x 19 x 146
	PSU 30V 150W IP67	I	68 x 39 x 228
	PSB 24V 60W DB IP66	II	100 x 81 x 320
	PSB 30V 2x150W DA IP65	I	300 x 180 x 300
OWL1 FATR	PSB 24V 60W DB IP66	II	100 x 81 x 320



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