

Sense System 48 V

product index

Q2 2023



Buschfeld track systems

The ultimate Buschfeld system – track concept comprises functionality and optimum lighting.

We have been producing the original track – LightLight – since 1989.

We focus on preserving, improving and refining what is good.

Our classic lighting system has been further developed and its functional qualities redefined. As a result of the requirement to provide digitally controllable lighting, we developed a 48 volt system in 2017. Its name: Sense System. It offers all the benefits of digital lighting control via wireless technology.

The design and form of the Buschfeld track remains unchanged – the inner components have been redeveloped to align with what the new standard can now offer with a power supply voltage of 48 V.

The design and size of the components have been reduced to the maximum, and their functionality optimized. Given that we use the best LED technologies available on the market, plus optical Snap filters, we can be sure we are operating at the highest level with regard to lighting solutions – all in combination with smart functions that can be combined independent of which manufacturers we cooperate with.

Sense System – timeless, understated aesthetic quality and future-oriented technology that harmonizes elegantly with different styles of architecture.

note on the price list

All prices are recommended sales prices + VAT.

Dimensions are quoted in millimetres, unless otherwise stated.

System Sets

They offer combinations of track and luminaires in the form of highly functional sets (pp. 14 - 20). Here you will find a description of potential applications, which will enable you to prepare for a chat with us to gain a price quote quickly and easily. You are free to adapt the list of articles to suit your individual needs, and add or exchange track and components as required. Feel free to contact us, should you require support for your lighting project.

Sense System

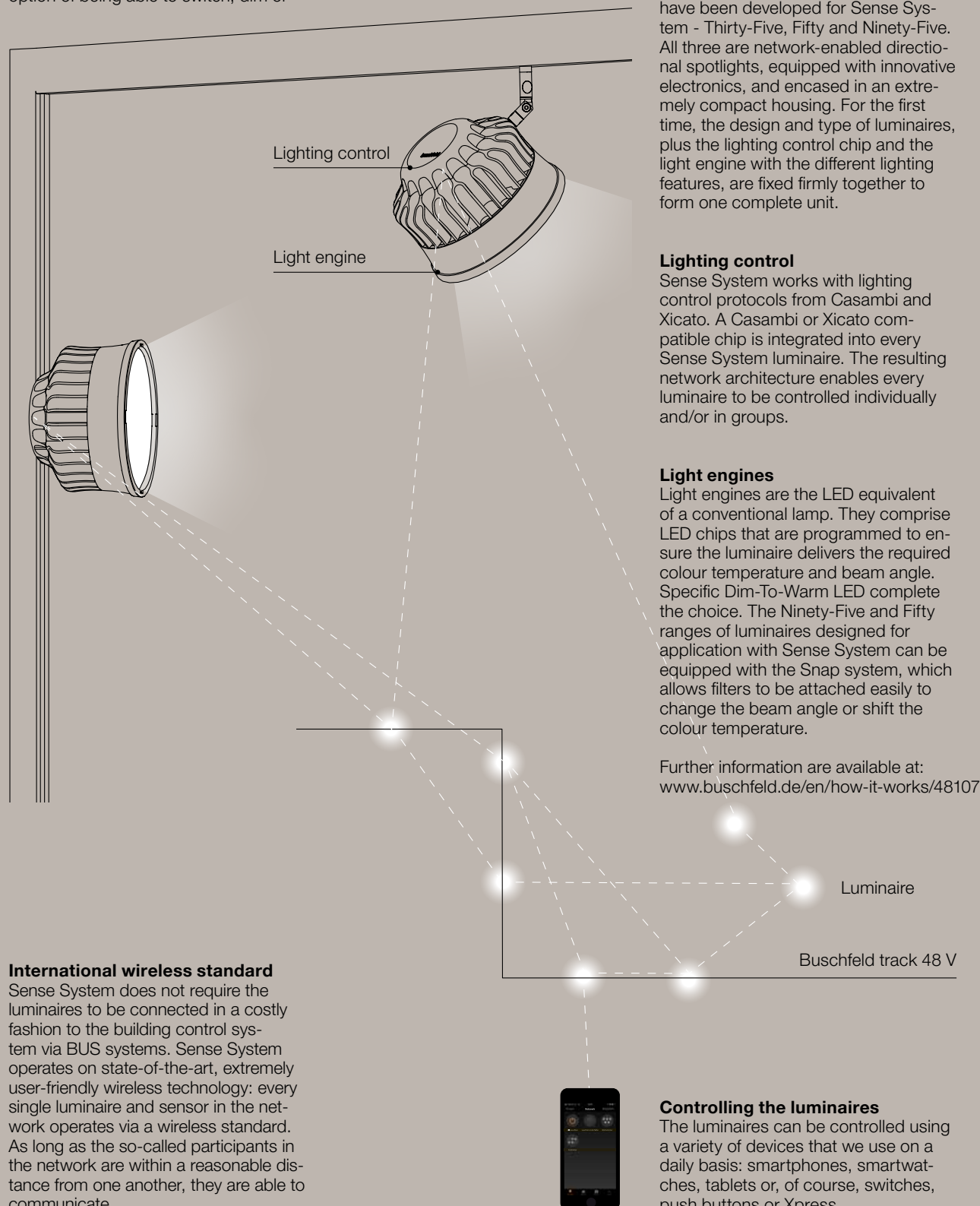
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Sense System

Basic Information

Sense System is the most slimline 48 V single-phase track system of its quality and class. The well-designed track system offers a number of advantages: the layout of the track does not depend on the power outlets available in the space. A wide variety of luminaires can be applied and positioned practically anywhere along the track. Given the option of being able to switch, dim or

program the luminaires individually, it is possible to realise highly flexible, custom-designed lighting solutions to suit the space and its use.



International wireless standard

Sense System does not require the luminaires to be connected in a costly fashion to the building control system via BUS systems. Sense System operates on state-of-the-art, extremely user-friendly wireless technology: every single luminaire and sensor in the network operates via a wireless standard. As long as the so-called participants in the network are within a reasonable distance from one another, they are able to communicate.

Luminaires

Programmable light: the timeless, pure aesthetics of digital. Three luminaires have been developed for Sense System - Thirty-Five, Fifty and Ninety-Five. All three are network-enabled directional spotlights, equipped with innovative electronics, and encased in an extremely compact housing. For the first time, the design and type of luminaires, plus the lighting control chip and the light engine with the different lighting features, are fixed firmly together to form one complete unit.

Lighting control

Sense System works with lighting control protocols from Casambi and Xicato. A Casambi or Xicato compatible chip is integrated into every Sense System luminaire. The resulting network architecture enables every luminaire to be controlled individually and/or in groups.

Light engines

Light engines are the LED equivalent of a conventional lamp. They comprise LED chips that are programmed to ensure the luminaire delivers the required colour temperature and beam angle. Specific Dim-To-Warm LED complete the choice. The Ninety-Five and Fifty ranges of luminaires designed for application with Sense System can be equipped with the Snap system, which allows filters to be attached easily to change the beam angle or shift the colour temperature.

Further information are available at: www.buschfeld.de/en/how-it-works/48107

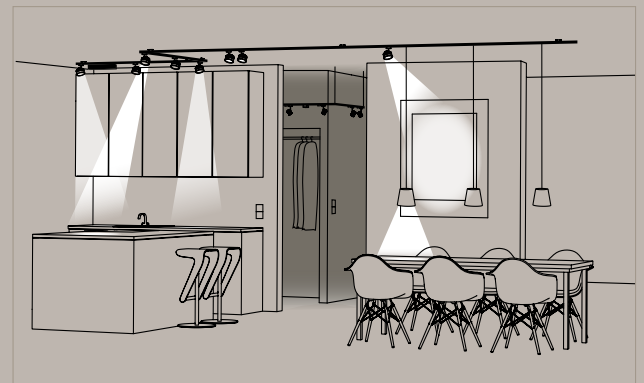
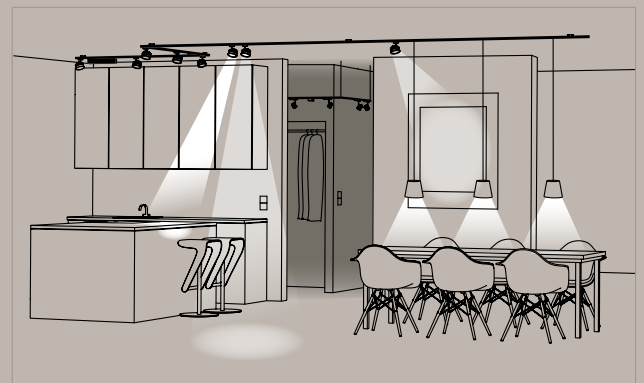
Controlling the luminaires

The luminaires can be controlled using a variety of devices that we use on a daily basis: smartphones, smartwatches, tablets or, of course, switches, push buttons or Xpress.



Applying groups of luminaires

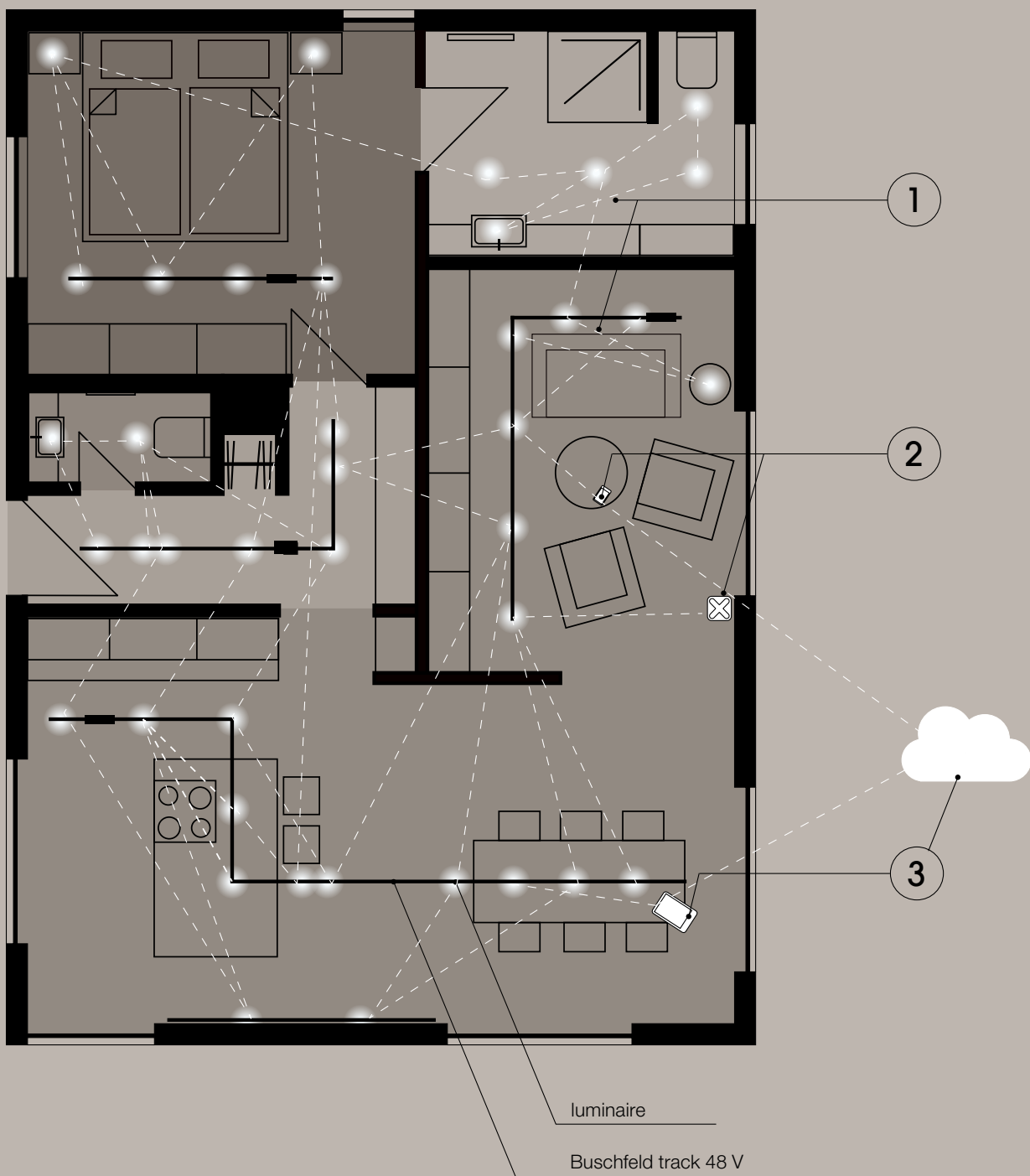
Being able to apply connected luminaires in groups and assigning them to perform specific lighting tasks is the simplest way of defining what smart luminaires can offer. The user decides which luminaire belongs in which group - irrespective of the location on the track, in the building or within the network. For example: luminaires applied in a dining room or in the kitchen are allocated to a designated group. It is also possible to connect a luminaire in the dining area with one in the lounge and one in the kitchen to create a specific atmosphere. Simply by touching the app on a smartphone or control panel, you can make the luminaires switch on, off or dim down. Luminaires can be part of many different groups of luminaires and be addressed to perform a range of tasks.



Lighting scenarios

Track-mounted luminaires interconnected to form a network can be switched and dimmed to create a variety of lighting scenarios.. Atmospheres can be adapted and sensitively aligned to suit situational requirements, and then saved for future application. Also a timer function is possible. At the same time, individual luminaires can be excluded from a given scenario and can be switched and dimmed on their own.





CASAMBI

private set-up

1 Function

<https://buschfeld.de/en/how-it-works/48103>

- control of groups of luminaires
- control of lighting scenarios
- integration of sensors into a system
- programming of timelines

2 Control

- wireless standard switch
- Casambi Xpress switch/remote control
- other interfaces can be integrated e.g. DALI
- smartphone
- tablet
- smartwatch

The system can be configured using an Apple or Android app

3 Additional benefits

- can be used intuitively, no technical know-how required
- uses Casambi Cloud for synchronisation of network data

Fields of application

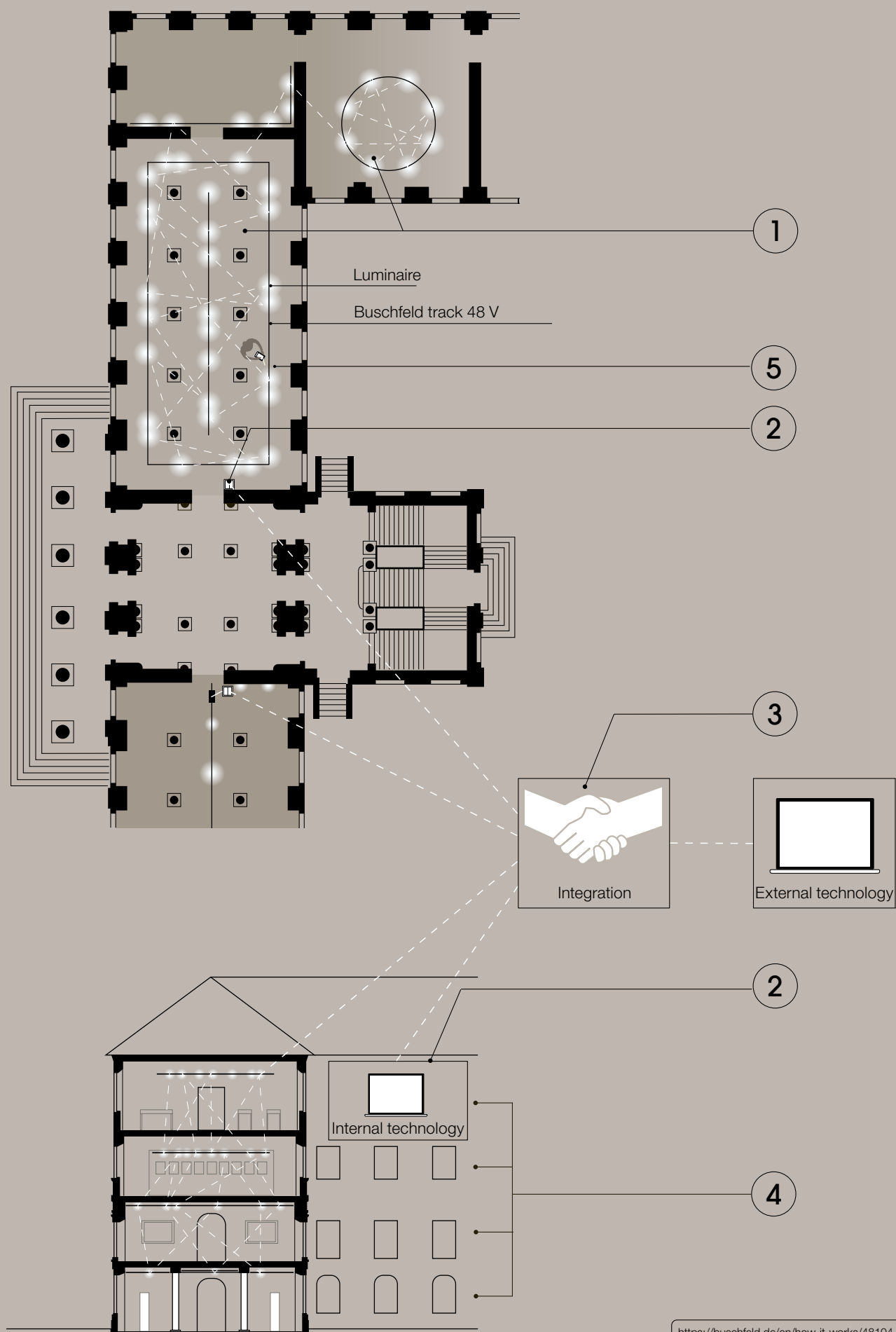
- private homes
- small-scale projects
- commercial and large-scale projects (In order to realize unlimited luminaires in one project, several networks can be created that can be controlled simultaneously. Thanks to a Casambi gateway functionality, the networks can be accessed via remote.)
- DALI controls can also interact with the Sense system via a gateway and be expanded with a wireless solution

Quick reference guide re. Casambi app

buschfeld x Casambi

<https://buschfeld.de/en/how-it-works/48112>

Our quick reference guide provides information to support you when realising your first installation using this system, or when updating Buschfeld luminaires already installed with Casambi lighting control.



xicato®

professional set-up

1 Functions

- control of groups of luminaires
 - control of lighting scenarios
 - dynamic lighting
 - sensor technology
 - programming of timelines
 - determines the conditions for sensors, actuators (recording, forwarding of data)
-


2 Control

- wireless standard switch
 - conventional switch with wireless module
 - sensors
 - apps on mobile devices
 - PC-based
-

3 Integration

- interfaces to conventional control technologies, if required
- gateway for IP integration and interface to building management systems (BMS)
- interconnection of building zones via Ethernet
- interoperable with non-proprietary systems via open API

<https://buschfeld.de/en/how-it-works/48104>



4 Efficiency

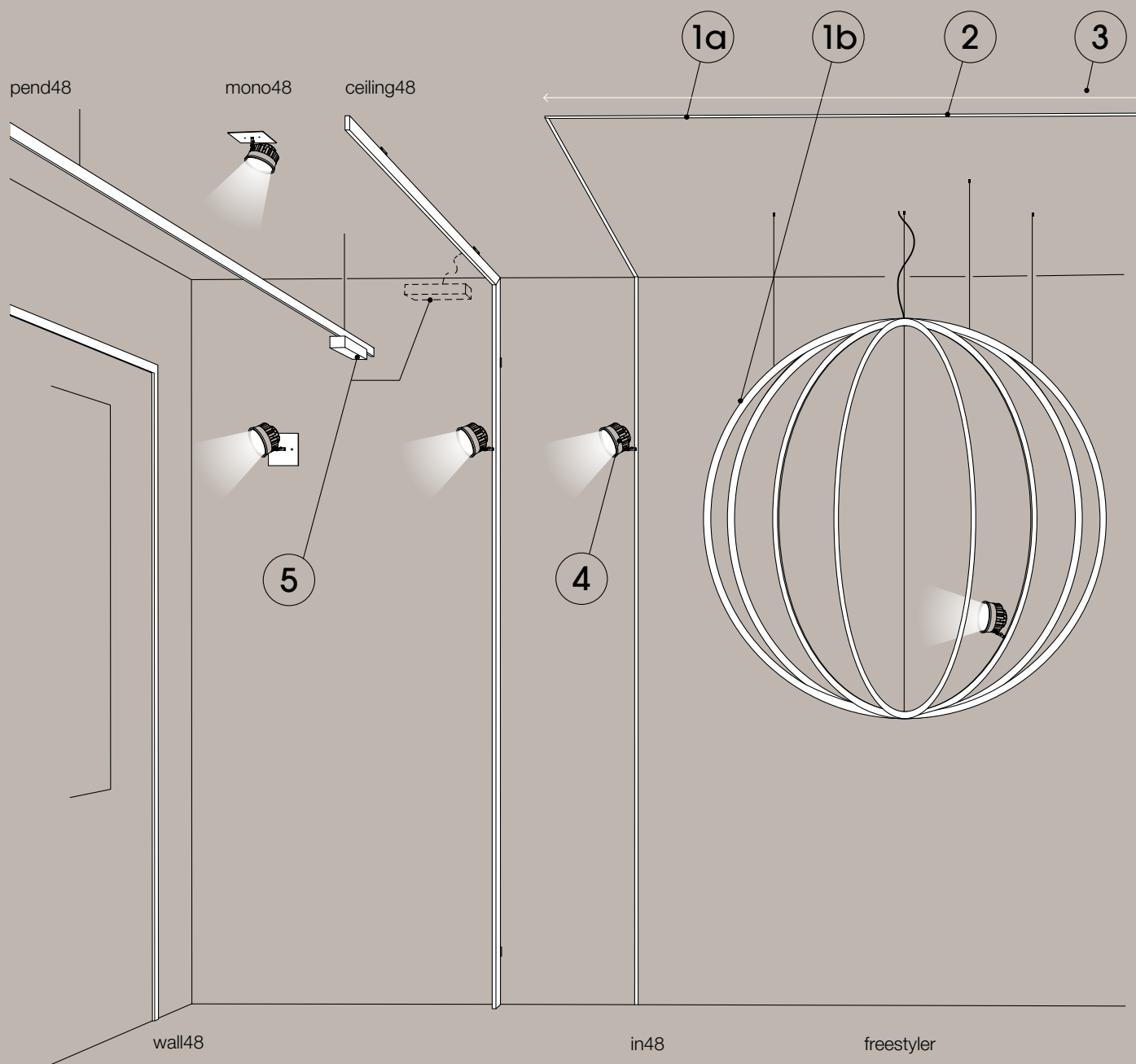
- open wireless standard
 - 32,000 wireless participants per network
 - more than 16,000 groups
 - over 65,000 scenarios
 - can be extended via a gateway, if required
-

5 Additional benefits

- records all operating data for every participant
- data can be used for value-added services
- stand-alone system without master module or cloud server
- beacon technology for realising app-based applications

Sense System

how to order



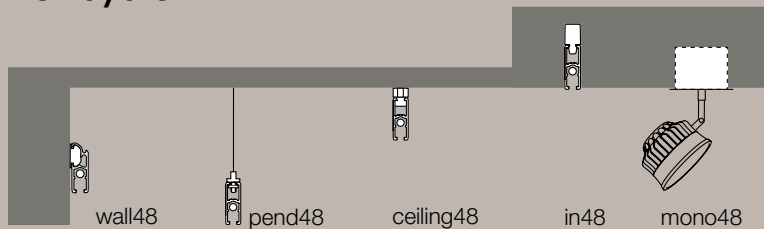
Buschfeld lighting systems are based on a modular system comprising individual elements and a choice of options. Which means you can design your lighting to suit individual requirements. Which and how many elements are required, and how and where are they to be applied?

The following points have been compiled to assist you with your planning.

<https://buschfeld.de/en/how-it-works/48101>



1a system

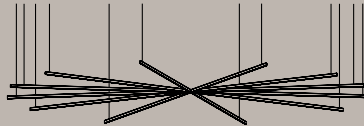


Is the track system to be surface or recess-mounted on the wall or ceiling? Or is the system to be pendant-mounted? First decide which of the four track systems would best serve your purpose: Wall48, Pend48, Ceiling48, In48, Tri48 or a Mono48 individual luminaire.

1b freestyler structures



sphere 1500



starry sky

Freestyler enables the creation of luminous structures in the form of a sphere, a star, a rectangle or a cylinder.

page 53 ff.

2 colour



alumatt



white



black

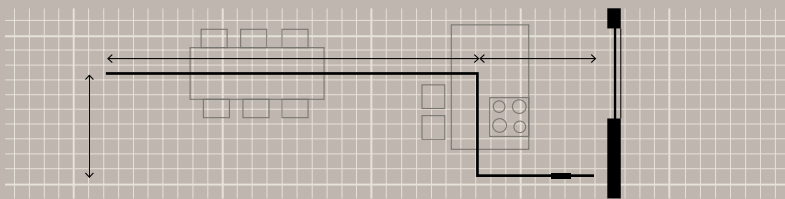


bronze

The finishes/colours available are marked in the product list as shown.

Custom colours available on request page 134 ff.

3 track layout



Make a rough sketch of how the track system is to run through the space (e.g. plan view) and note down the dimensions. Then select the sections of track, and the connectors and power feeds required. Mark in where the power supply is likely to be.

4 luminaires and control



CASAMBI

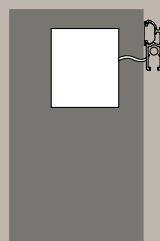
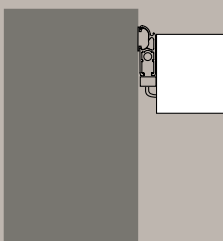
Xicato

A variety of luminaires are available for every track system. Select the luminaire(s) suitable for the task at hand and decide what lighting control you would like: Casambi or Xicato controls. All luminaires are supplied equipped with LEDs. The required type of optical light engine can be selected according to the features it offers.

<https://buschfeld.de/en/how-it-works/48107>

page 63 ff.

5 power supply units

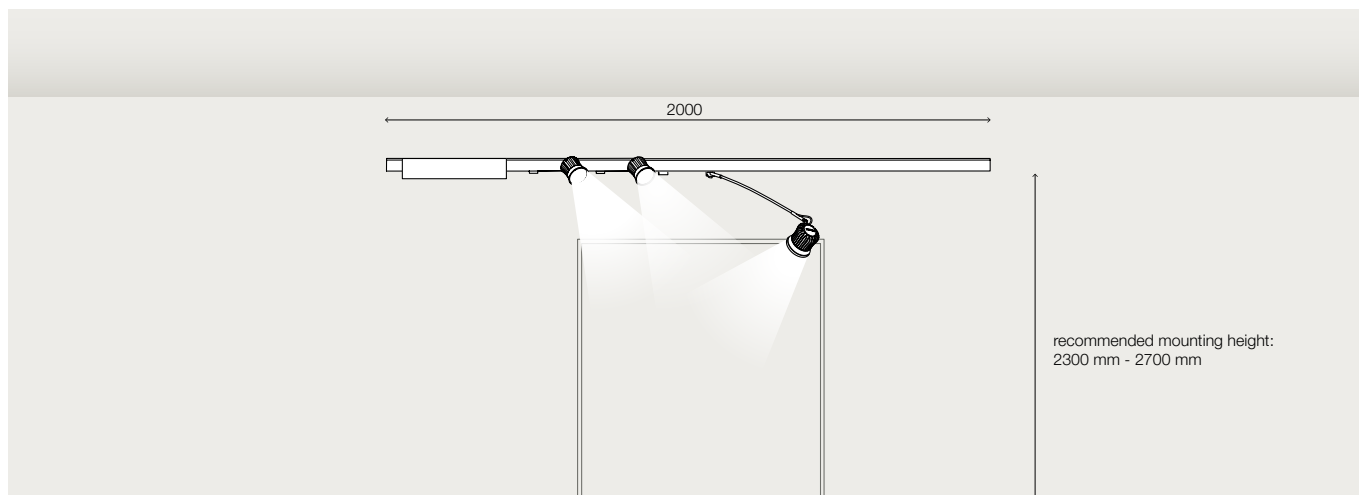


You can select between control gear in a design housing for visible mounting, or control gear for concealed mounting. The sum of the total wattage plus the length of the track serve as a basis for the choice of control gear. Please refer to the recommendations listed in the tables.

page 115 ff.

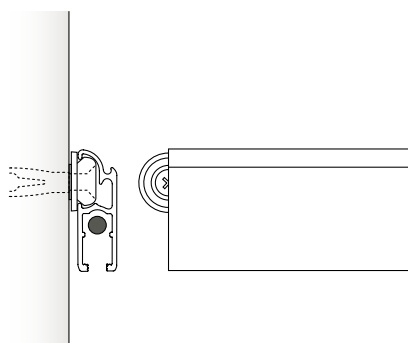
6 All prices are recommended sales prices + VAT.

Dimensions are quoted in millimetres, unless otherwise stated.



wall48 tracks pricing example 1

Set incl. wall track, power supply unit and accessories



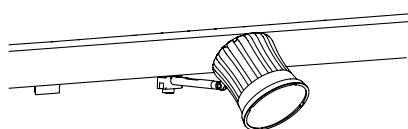
- 1 wall track (L=2000 mm)
- incl. mounting accessories (5 wall clips)
- power supply unit (Box wall48 I 90) incorporated into a design housing (48 V DC)
- The 230 V connection is at the same height as the track.

colour of track

- alumatt
- white
- black

The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

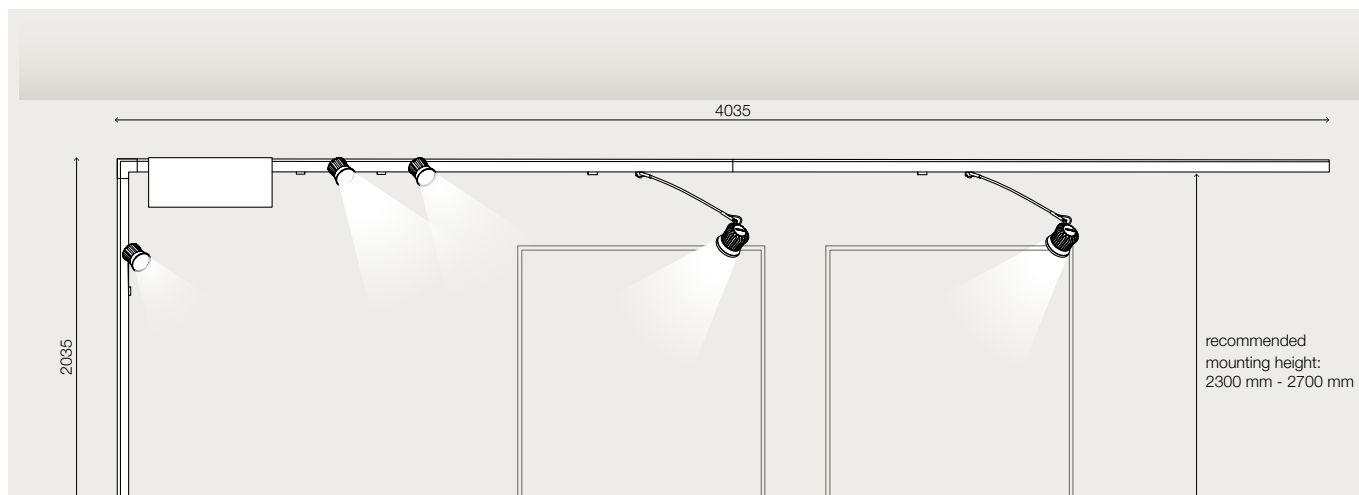
Luminaire pricing example 1



Set incl. 2 directional spotlights fifty side S and one wall-mounted luminaire fifty side L for wall48

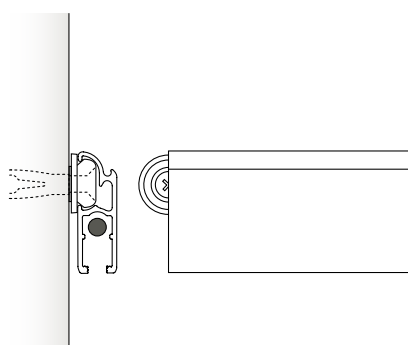
The luminaire set is designed for application on the Wall48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Fifty luminaires can be found in the price list on pages 80. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 2 directional spotlights Fifty side S
- 1 wall-mounted luminaire Fifty side L
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 720 Lumen, 36°



wall48 tracks pricing example 2

Set incl. wall track, power supply unit and accessories

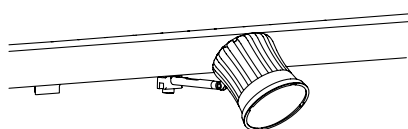


- 3 wall tracks (L=6000 mm)
- 1 angle connector 90° on inside, conductive, horizontal in vertical
- 1 linear connector, conductive
- power supply unit (Box wall48 I 90) incorporated into a design housing (48 V DC).
- The 230 V connection is at the same height as the track.

colour of track

- alumatt
- white
- black

The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

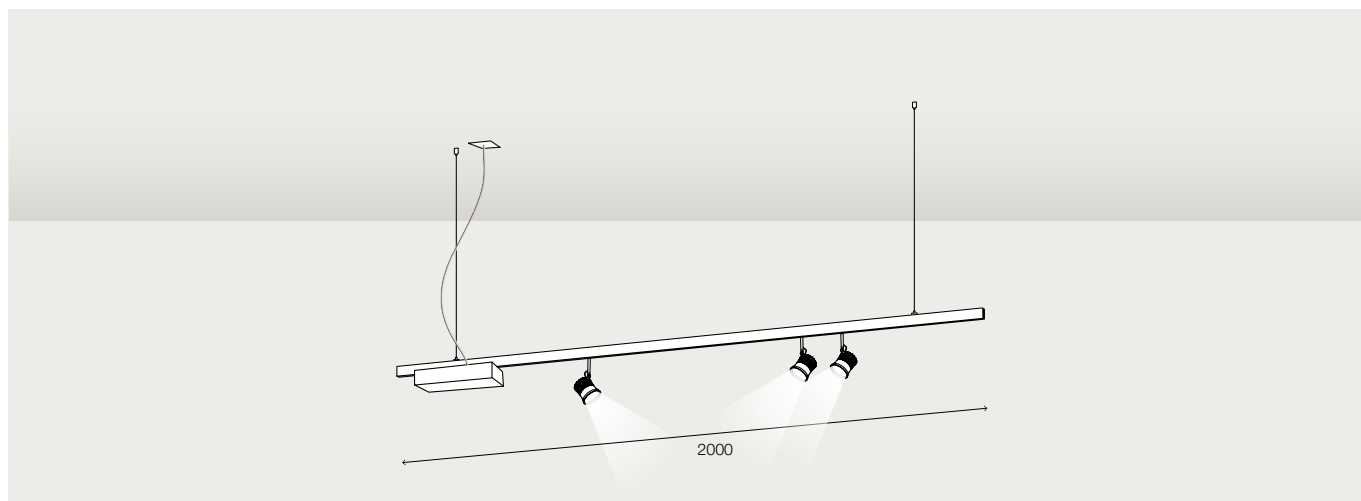


Luminaire pricing example 2

Set incl. 3 directional spotlights fifty side S and 2 wall-mounted luminaires fifty side L for wall48

The luminaire set is designed for application on the Wall48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Fifty luminaires can be found in the price list on pages 80. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 3 directional spotlights Fifty side S
- 2 wall-mounted luminaires Fifty side L
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 720 Lumen, 36°



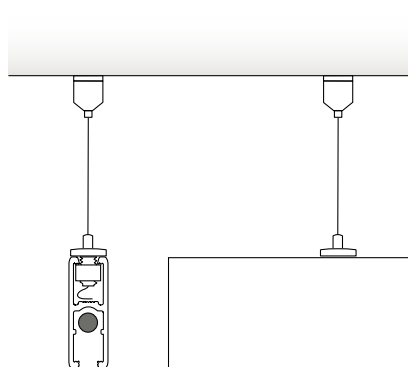
pend48 tracks pricing example 3

Set incl. pendant track, control gear and accessories

- 1 pendant track (L=2000 mm)
- 2 cable suspensions
- power supply unit (Box pend48 I 90) incorporated into a design housing (48 V DC)
- recessed canopy
- lv stranded cable 1500 mm silver transparent

colour of track

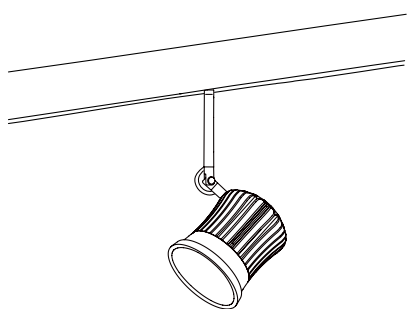
- alumatt
- white
- black



The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

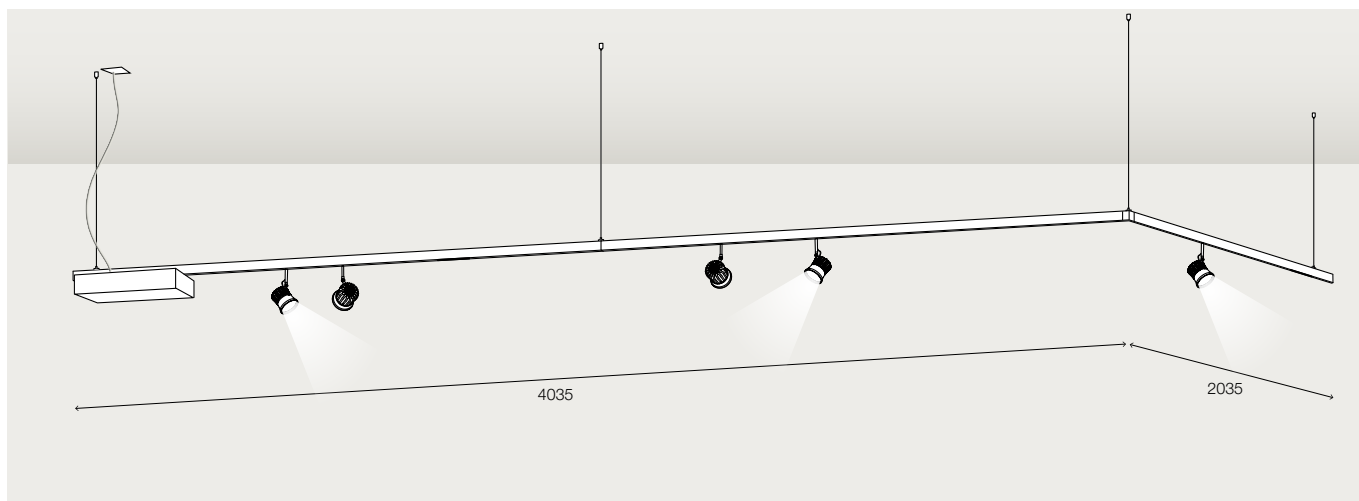
Luminaire pricing example 3

Set incl. 3 directional spotlights ninety-five S for pend48 or ceiling48



The luminaire set is designed for application on the Pend48/Ceiling48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Ninety-Five S luminaire can be found in the price list on page 78. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 3 directional spotlights Fifty S
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 720 Lumen, 36°






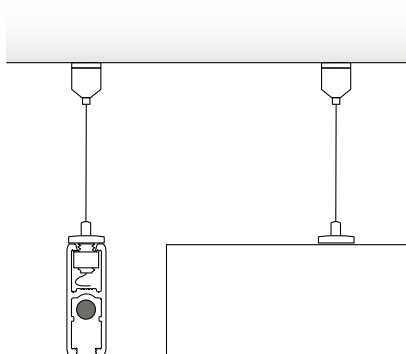
pend48 tracks pricing example 4

Set incl. pendant track, control gear and accessories

- 3 pendant tracks (L=6000 mm)
- 1 angle connector 90°, conductive, with cord
- 1 linear connector, conductive, with cord
- 2 cable suspensions
- power supply unit (Box pend48 I 90) incorporated into a design housing (48 V DC)
- recessed canopy
- lv stranded cable 1500 mm silver transparent

colour of track

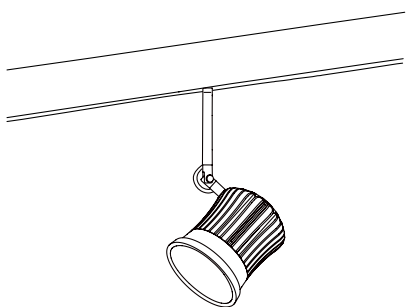
-  alumatt
-  white
-  black



The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

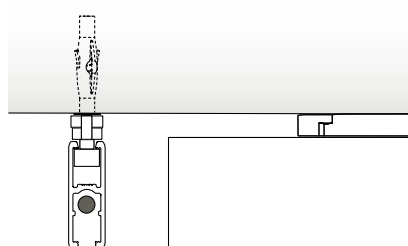
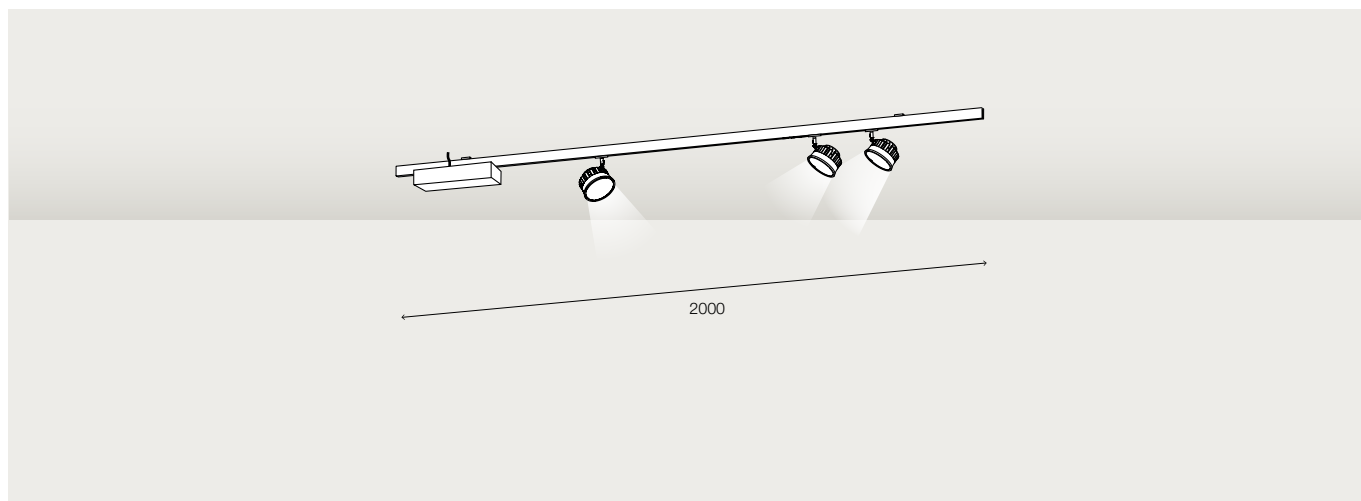
Luminaire pricing example 4

Set incl. 5 directional spotlights ninety-five S for pend48 or ceiling48



The luminaire set is designed for application on the Pend48/Ceiling48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Ninety-Five S luminaire can be found in the price list on page 78. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 5 directional spotlights Fifty S
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 720 Lumen, 36°



ceiling48 tracks pricing example 5

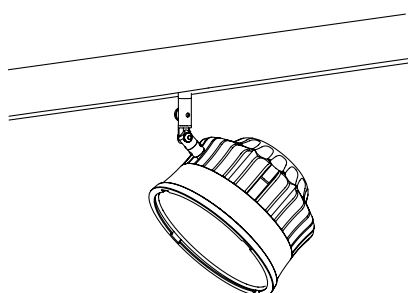
Set incl. ceiling track, power supply unit and accessories

- 1 ceiling track (L=2000 mm)
- 1 mounting set standard
- power supply unit (Box pend48 I 90) incorporated into a design housing (48 V DC)
- lv stranded cable 1500 mm

colour of track

- alumatt
- white
- black

The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

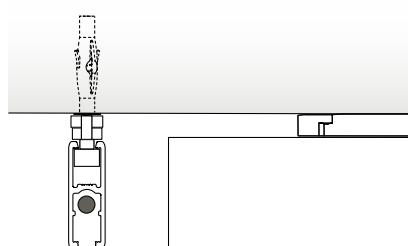
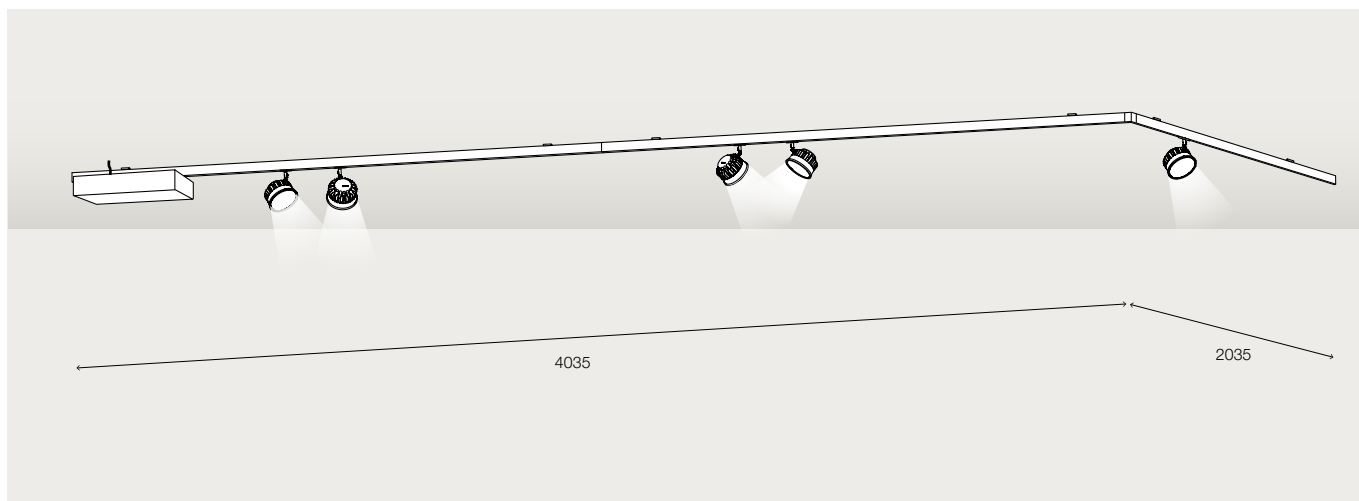


Luminaire pricing example 3

Set incl. 3 directional spotlights ninety-five S for pend48 or ceiling48

The luminaire set is designed for application on the Pendl48/Ceiling48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Ninety-Five S luminaire can be found in the price list on page 69. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 3 directional spotlights Ninety-Five S
- lighting control Casambi
- Adapter hide
- Light Engine: 3000 K, 1000 Lumen, 36°






ceiling48 tracks pricing example 6

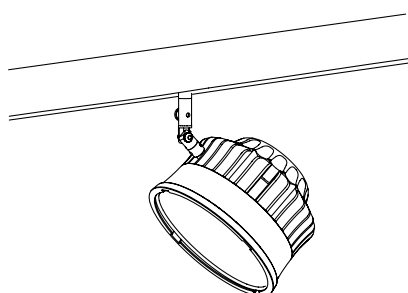
Set incl. ceiling tracks, power supply units and accessories

- 3 pendant tracks (L=6000 mm)
- 1 angle connector 90°, conductive
- 1 linear connector, conductive
- 3 mounting sets standard
- power supply unit (Bigbox pend48 I 90) incorporated into a design housing (48 V DC)
- lv stranded cable 1500 mm

colour of track

-  alumatt
-  white
-  black

The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.

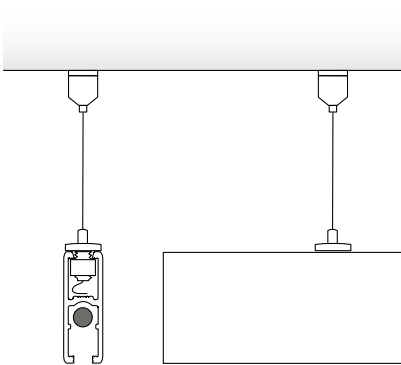
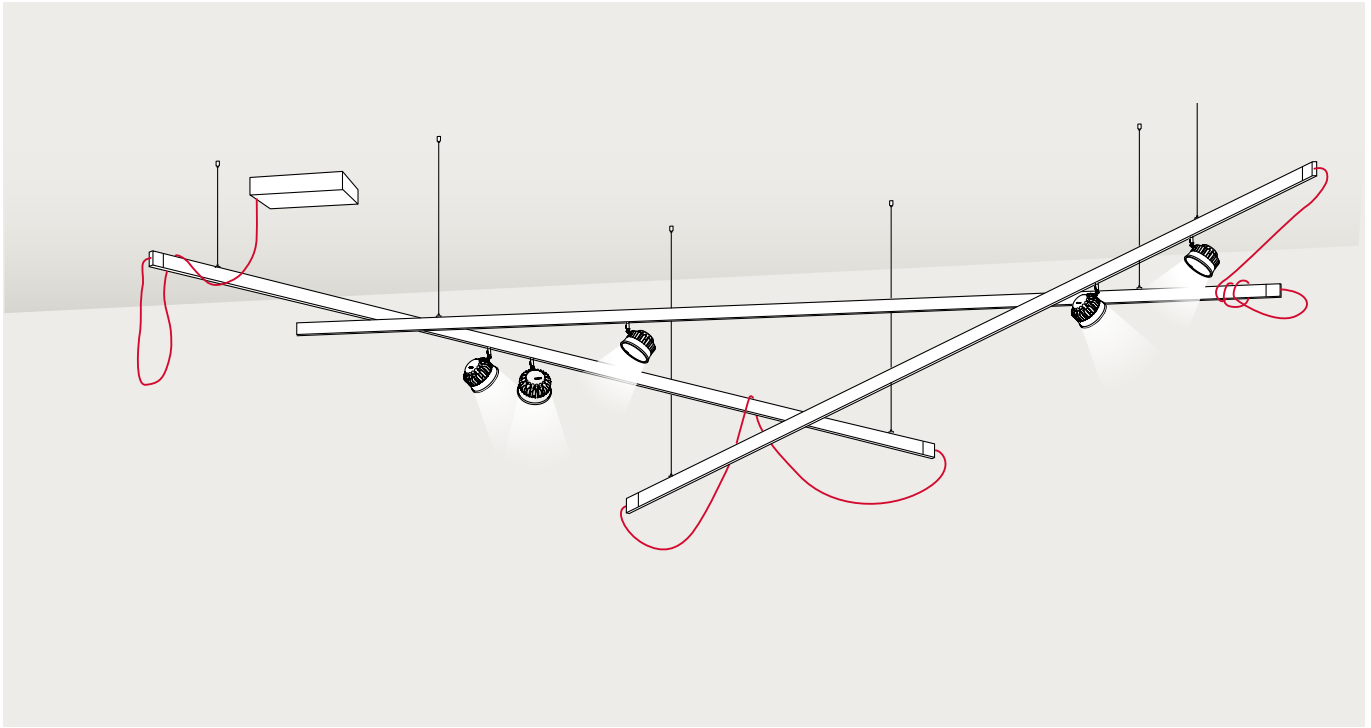


Luminaire pricing example 4

Set incl. 5 directional spotlights ninety-five S for pend48 or ceiling48

The luminaire set is designed for application on the Pend48/Ceiling48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Ninety-Five S luminaire can be found in the price list on page 69. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 5 directional spotlights Ninety-Five S
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 1000 Lumen, 36°



pend48 tracks with fabric cable pricing example

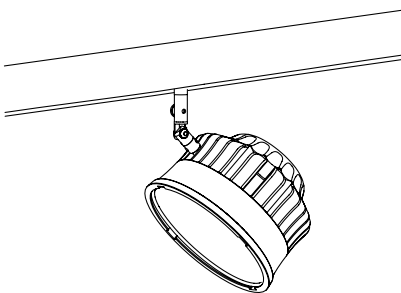
Set mit Pendelschienen, Schaltnetzteil und Zubehör

- 3 pendant tracks (L=2000 mm each)
- 1 power feed at end with fabric cable (L=2000 mm)
- 2 connecting cables (L=1500 mm) with 2 power feeds at end axial
- 6 cable suspensions
- connecting of power feeds at end with cables
- control gear (Bigbox Pend48 I 150) in design housing (48 V DC) with fixtures for ceiling
- cable length up to L < 5000 mm
- 48 V DC, 4 A

colour of track

-  alumatt
-  white
-  black
-  bronze

The track set comprises detailed price listing for a complete lighting system plus a set of luminaires of your choice. If you are planning to align track and components to your specific lighting design, we are happy to provide you with professional advice.



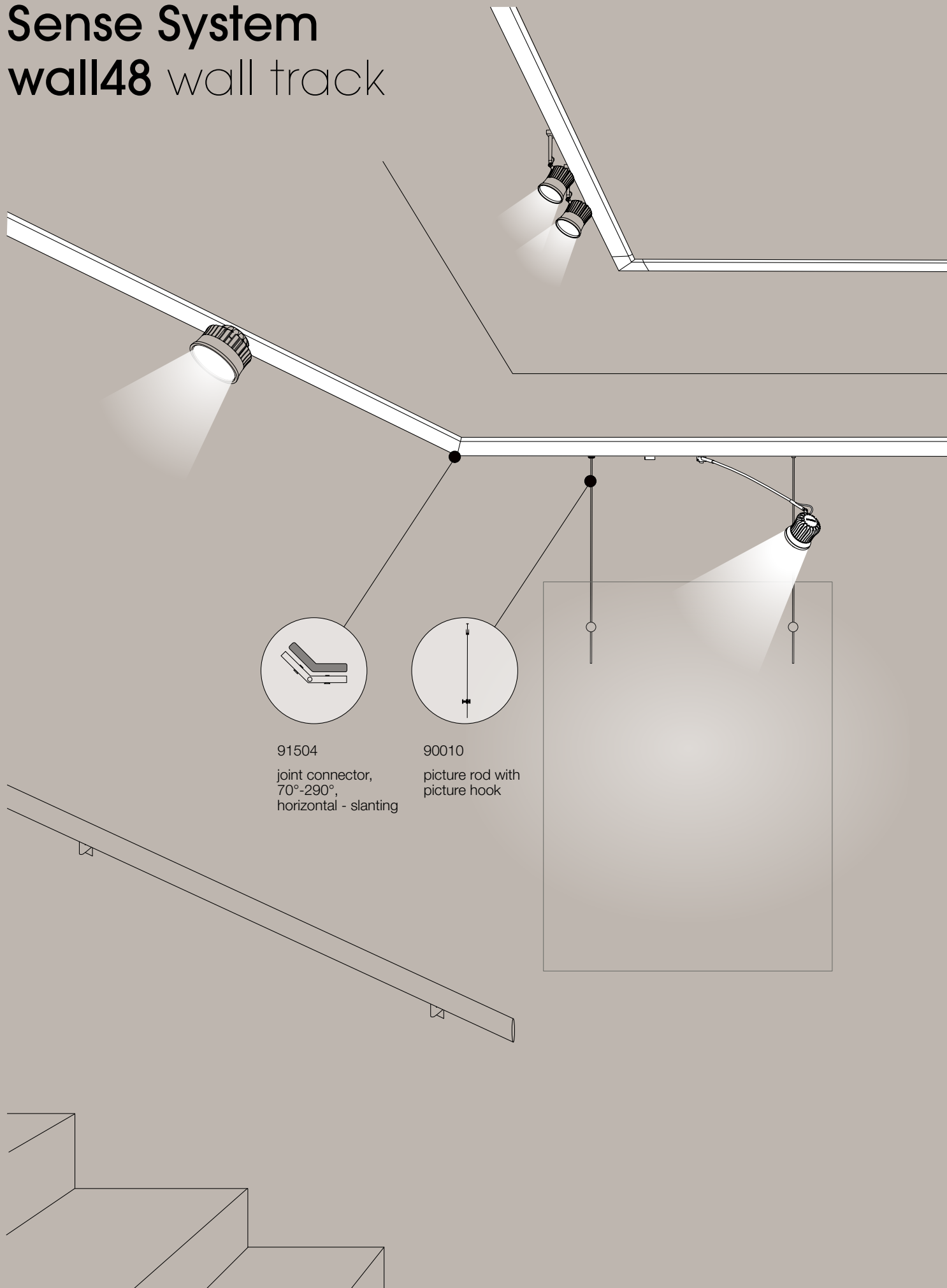
Luminaire set 4

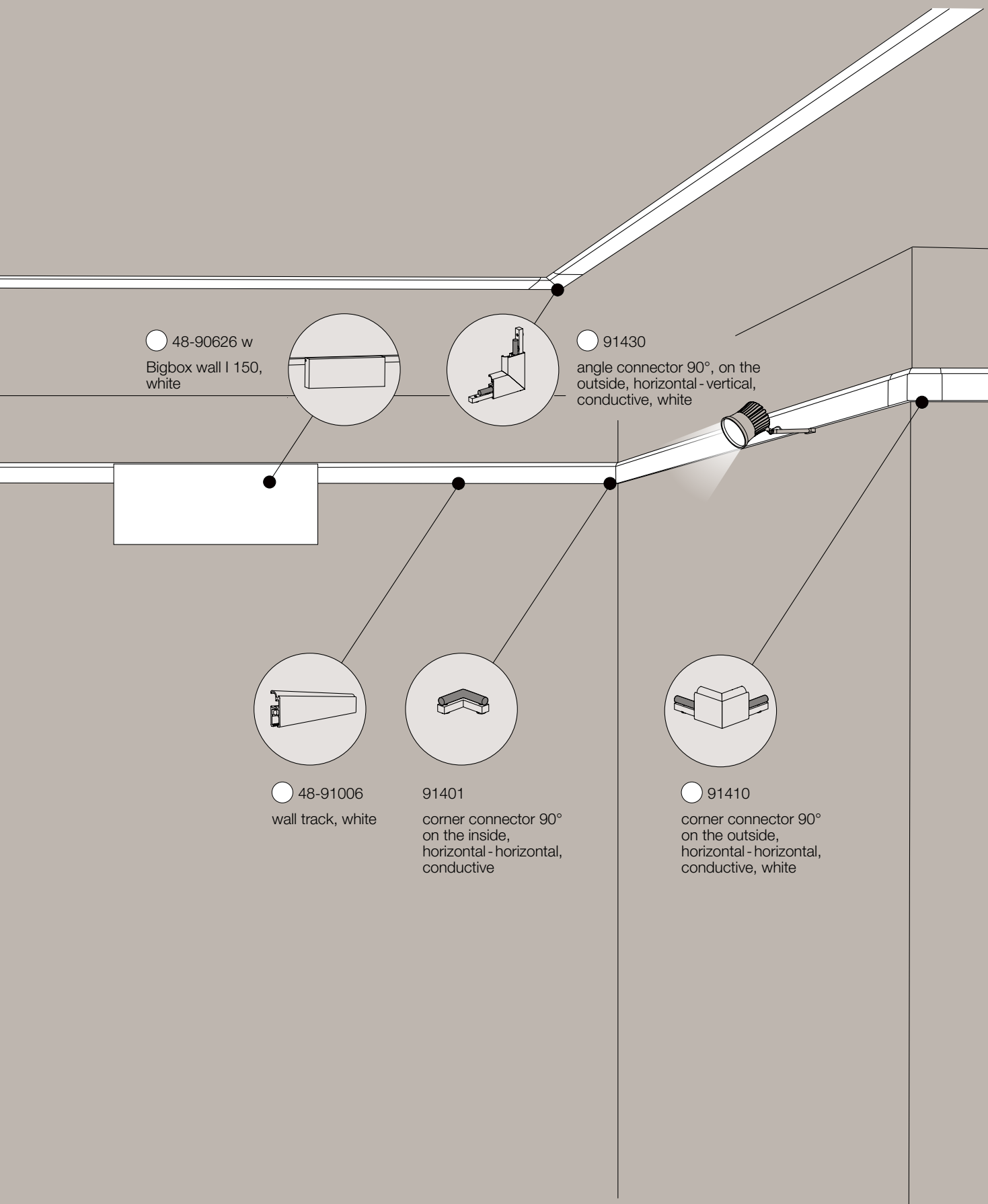
Set incl. 5 directional spotlights ninety-five S for pend48 or ceiling48

The luminaire set is designed for application on the Pend48/ Ceiling48 track system. The list of luminaires defines the following features and quotes the respective price. A choice of shades for Ninety-Five S luminaire can be found in the price list on page 69. If you are planning to align the luminaires to your specific lighting design, feel free to contact us.

- 5 directional spotlights Ninety-Five S
- lighting control Casambi
- adapter hide
- Light Engine: 3000 K, 1000 Lumen, 36°

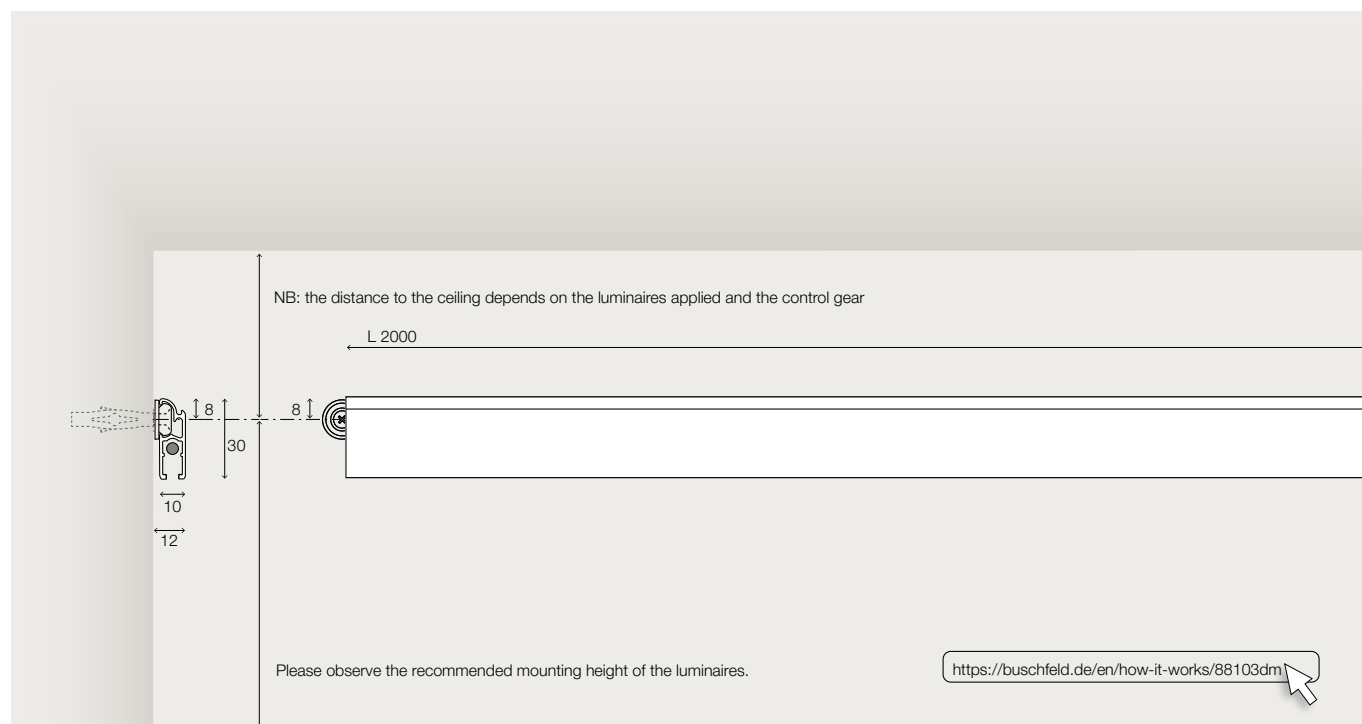
Sense System wall48 wall track





The Wall48 track system combines both the illumination and hanging of pictures. The track layout can be designed to align with the project at hand. Illuminate your pictures and spaces to meet your wishes and requirements.

<https://buschfeld.de/en/how-it-works/88103>




Wall track and power feeds

wall track

L=2000, can be shortened
incl. mounting accessories
(5 wall clips)
48 V DC, 12.5 A

article no.




-  48-91002
-  48-91006
-  48-91003



power feed at end, top left

L=35
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.




-  91114
-  91118
-  91121



power feed at end, top right

L=35
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.



-  91106
-  91110
-  91119

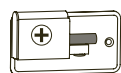


power feed at end, recessed, left

L=35
screw contact
For flush-mounted socket see
accessories, incl. 2 end caps
48 V DC, 12.5 A

article no.

-  91130
-  91134
-  91136

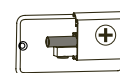


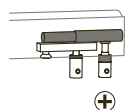
power feed at end, recessed, right

L=35
screw contact
For flush-mounted socket see
accessories, incl. 2 end caps
48 V DC, 12.5 A

article no.

-  91122
-  91126
-  91128



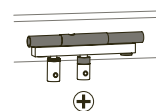


**power feed at end,
facing downwards,
left or right**

L=0
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 91102
- 91107
- 91123

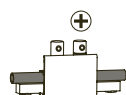


**power feed central,
facing downwards**

L=0
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 91202
- 91203
- 91205

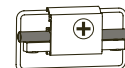


**power feed central,
upper section**

L=35
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 91204
- 91208
- 91209

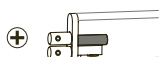


**power feed central,
recessed**

L=35
screw contact
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 91212
- 91216
- 91218



**power feed at end,
on axis left or right**

L=18
screw contact
incl. end cap
48 V DC, 12.5 A

article no.

- 91104
- 91105
- 91125

LV stranded cable

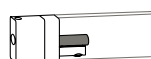


silver transparent, highly flexible, incl.
4 cable end sleeves

article no.

2x2,5 mm², running metre
2x4 mm², running metre
2x6 mm², running metre

90525
90520
90500



**power feed for fabric
cable, on axis left or
right**

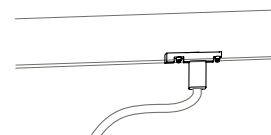
L=31 mm, screw contact, incl. end
cap, for fabric cables with outside
diameter of max. 7.0 mm, (order cable
separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.

article no.

- 91137
- 91138
- 91139
- 91140

**adapter power feed,
positioned as required,
for fabric cable**

adapter power feed, hide, incl. 1 end
cap, fits into the inner conductor side
of the track, for fabric cable with an
outer diameter max. 7.0 mm, i(order
cable separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.



article no.

- 91131
- 91133
- 91135
- 91141

fabric cable



running meter
round flexible cable, double insulated,
covered by cotton,
outside diameter 6,2 mm,
cable cross-section 2 x 0.75 mm²
power max. 200 W for max. cable
length of L < 5000 mm
Selection of www.creative-cables.com

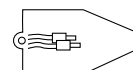
article no.

- 90551-RC35
- 90551-RC01
- 90551-RC04
- 90551-RC43*

* The fabric cable colour - RC43 is
our choice to match the bronze
track colour.

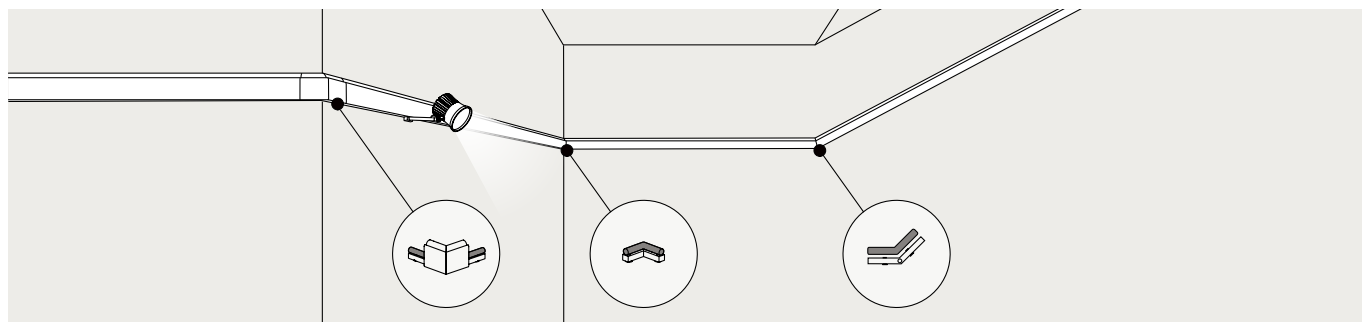
recessed socket

socket type: Kaiser 1048-00







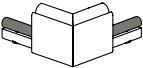









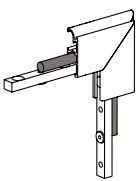



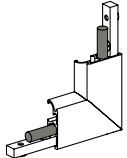





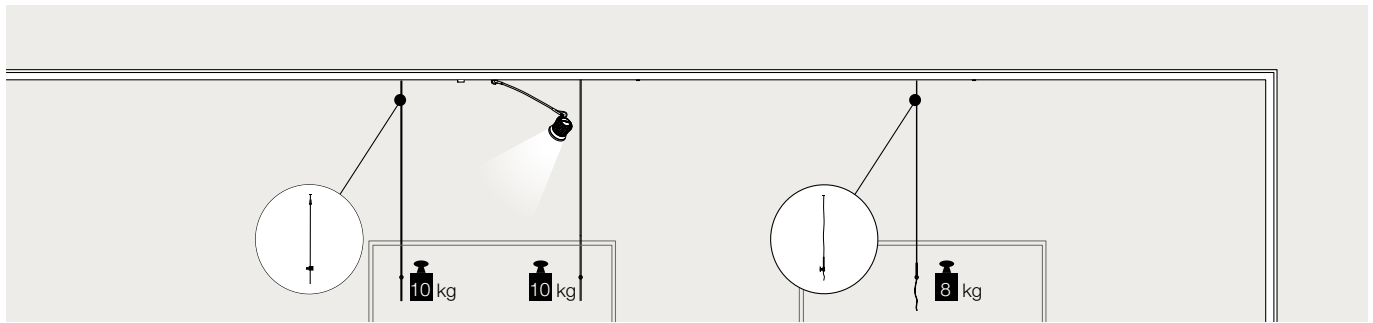
article no.

90007



Connectors

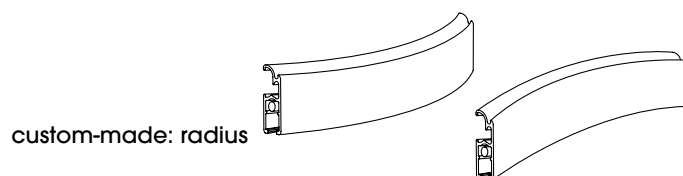
 <p>linear connector conductive</p> <p>L=0</p>	<p>article no.</p> <p>91302</p>	 <p>linear connector insulating</p> <p>L=1</p>	<p>article no.</p> <p>  91304  91305  91307 </p>
<p>corner connector 90°, on the inside, horizontal-horizontal, conductive</p> <p>L=0 mitre cut required on site</p>	 <p>article no.</p> <p>91401</p>	<p>corner connector 90°, on the outside, horizontal-horizontal, conductive</p> <p>L=35</p>	 <p>article no.</p> <p>  91410  91414  91416 </p>
<p>joint connector 80-280° horizontal-horizontal</p> <p>L=0 mitre cut required on site</p> <p> conductive  h non-conductive  h </p>	 <p>article no.</p> <p>91502</p> <p>95208</p>	<p>joint connector 70-290° horizontal-slanting</p> <p>L=0 mitre cut required on site e.g. for staircases</p> <p> conductive  h non-conductive  h </p>	 <p>article no.</p> <p>91504</p> <p>91505</p>
<p>angle connector 90°, on the inside, horizontal-vertical, conductive</p> <p>L=50 inner conductor on the inside</p>	 <p>article no.</p> <p>  91418  91422  91424 </p>	<p>angle connector 90°, on the outside, horizontal-vertical, conductive</p> <p>L=50 inner conductor on the outside</p>	 <p>article no.</p> <p>  91426  91430  91432 </p>



Accessories

			
picture rod with picture hook	article no.	additional picture hook for picture rod	article no.
2,6x1000	90010		90019
2,6x1350	90011		
2,6x2000	90012		

			
picture cord with picture hook	article no.	additional picture hook for picture cord	article no.
1,0x1500	90013		90017
	 90013 b plastic bolt, black		



custom-made: radius

Curved upright sections of track, convex or concave (min. radius of 500 mm), are also available.

Please send us an e-mail with the data applicable for your planned track layout to info@buschfeld.de
Further information on page 133

<https://buschfeld.de/en/how-it-works/88114>



custom-made: colour

All track and shades can be custom made in the colour (RAL-compliant) of your choice.

Please send us an e-mail with information with the layout of the track, the number of luminaires, choice of colour(s) to: info@buschfeld.de. Further information on page 134.

<https://buschfeld.de/en/how-it-works/88107>

Luminaires for wall48

luminaires page 63 ff.
power supply units page 115 ff.



fifty XS



thirty-five XS



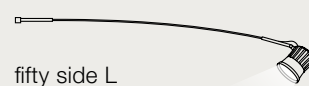
ninety-five side S



fifty side S



thirty-five side S



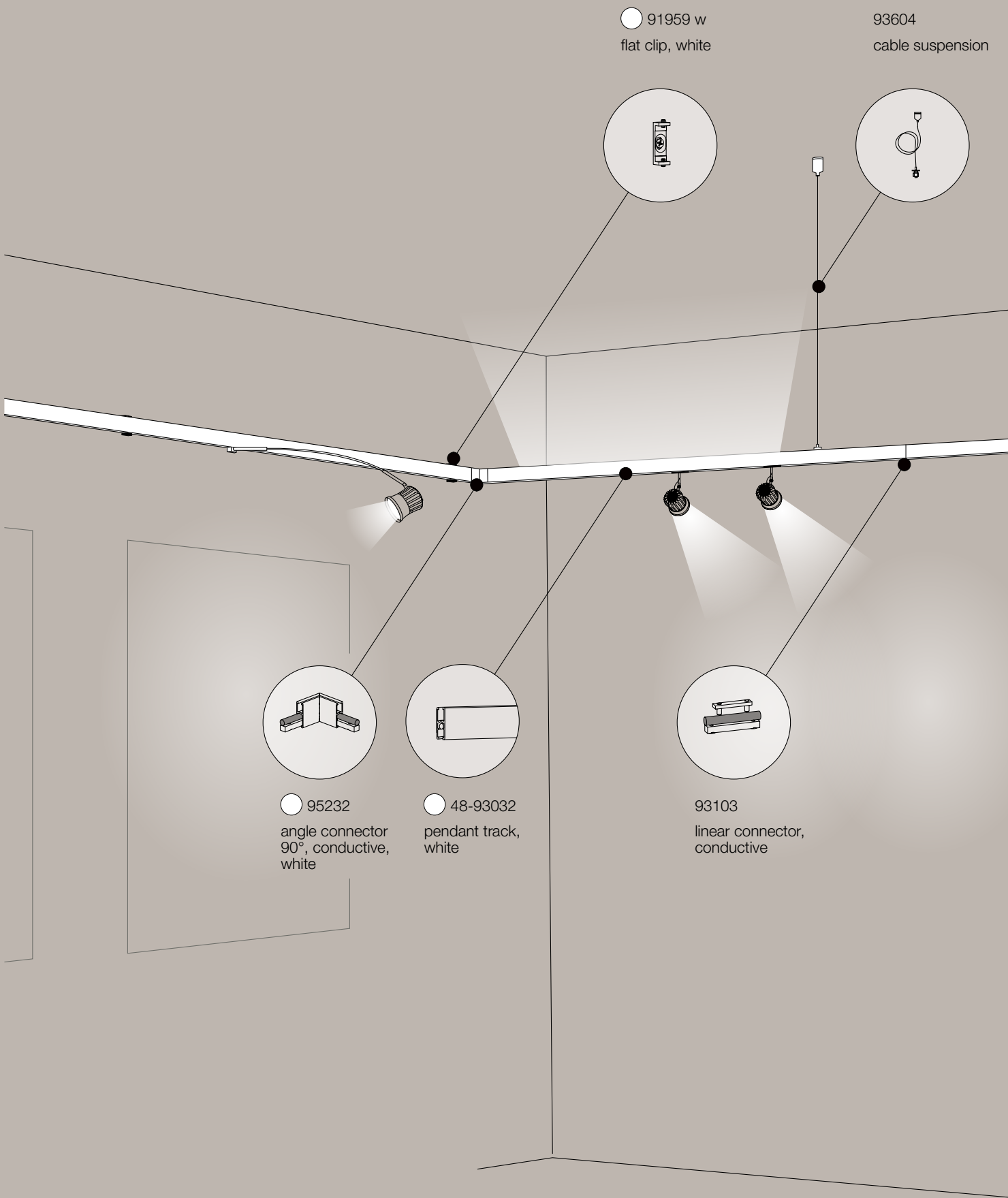
fifty side L



thirty-five side L

Sense System

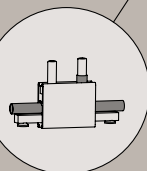
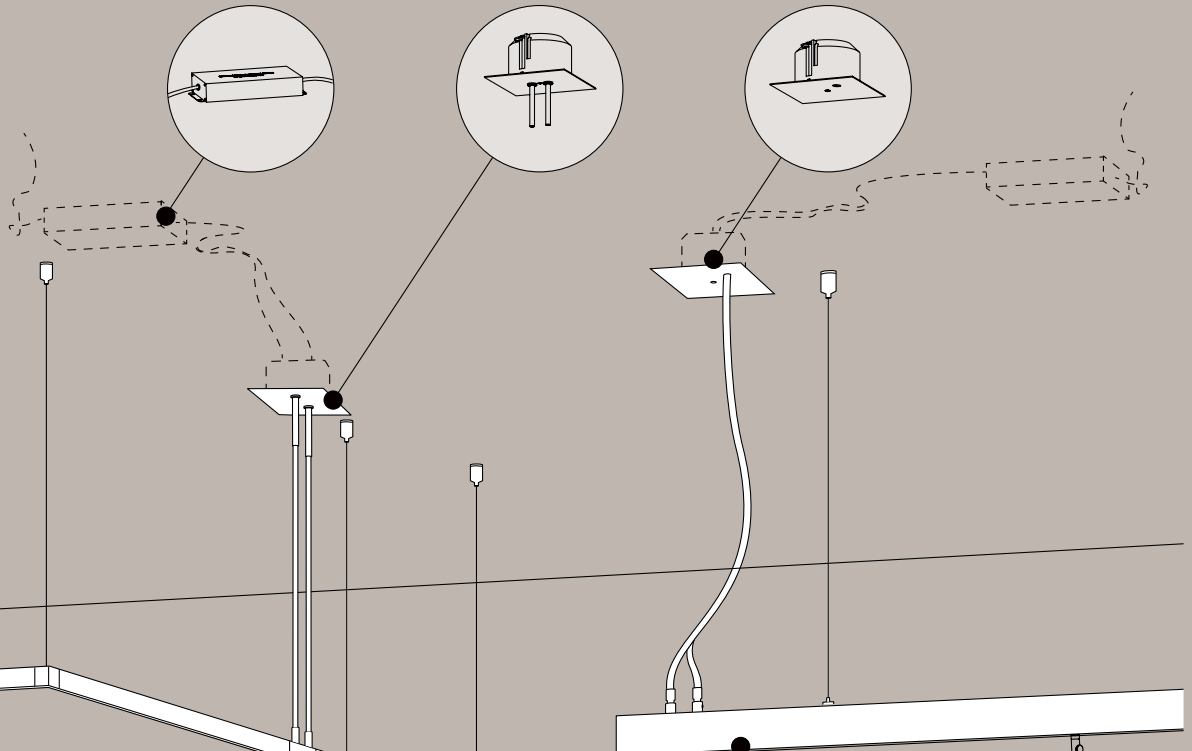
pend48 pendant track



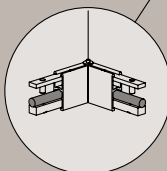
48-90143
power supply switch
MW 150

93535
recessed canopy
for power feed rods,
white

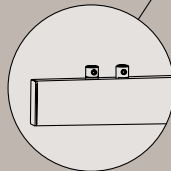
93517
recessed canopy
for power cable,
white



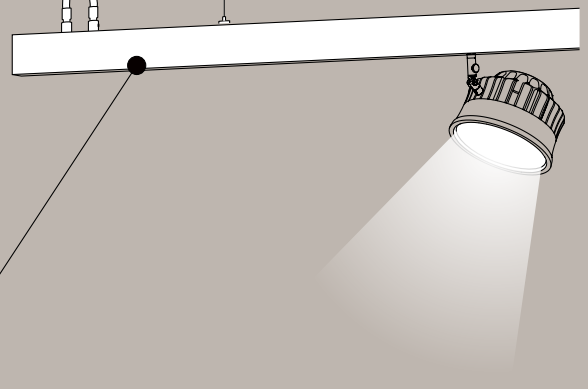
93016
power feed for
power feed rods,
top centre, white



93232
angle connector
90°, conductive,
white

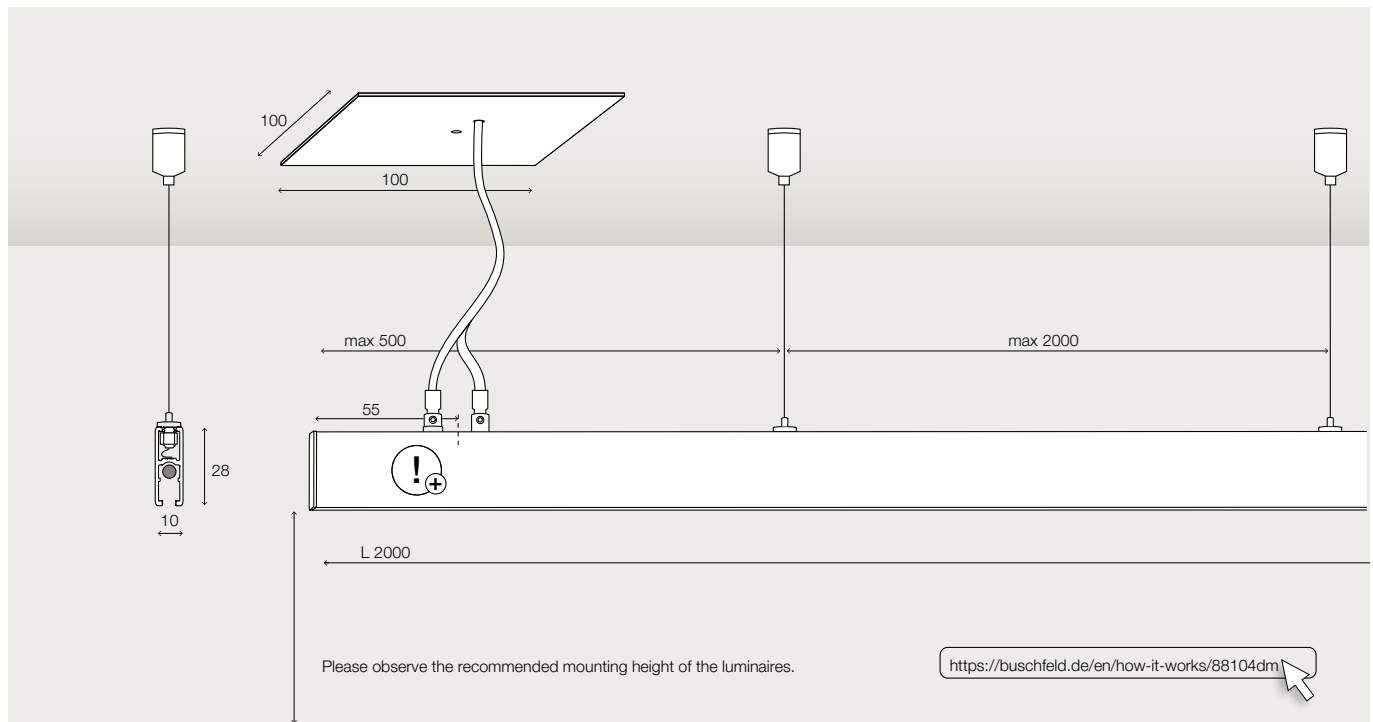


48-93036
pendant track
with power feed
for cable, white



The pendant track system Pend48 is suspended on thin steel cables, making the stretches of track look as though they are floating in space. Given the distance between the track and the ceiling, indirect lighting can be applied alongside spotlights.

<https://buschfeld.de/en/how-it-works/88104>



Pendant track with power feed for cable



pendant track

L=2000
can be shortened
without cable suspension
48 V DC, 12.5 A

article no.

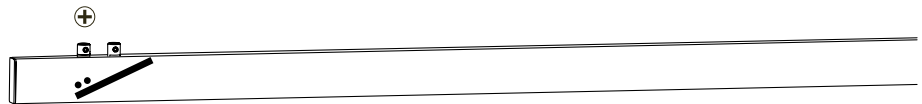
- ☐ 48-93002
☐ 48-93032
☒ 48-93042
☐ 48-93082

 $L=3000$

Professional Product: please note additional handling and shipping costs.

article no.

-  48-930023
-  48-930323
-  48-930423
-  48-930823



pendant track
with power feed for cable

L=2000
left or right, can be shortened,
screw contact for power cable
(order cable and cable suspension
separately) incl. 2 end caps
48 V DC, 12.5 A

article no.

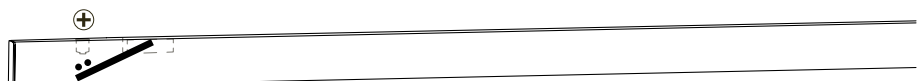
- ☐ 48-93006
☐ 48-93036
☒ 48-93046
☐ 48-93086

 $L=3000$

Professional Product: please note additional handling and shipping costs.

article no.

- ☐ 48-930063
☐ 48-930363
☒ 48-930463
☐ 48-930863



pendant track
with recessed power feed

L=2000
left or right, can be shortened,
screw contact for power cable
max. 2.5 mm² ! (order cable and cable
suspension separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.

- ☐ 48-93003
☐ 48-93039
☒ 48-93043
☐ 48-93083

 $L=3000$

Professional Product: please note additional handling and shipping costs.

article no.

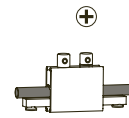
-  48-930033
-  48-930393
-  48-930433
-  48-930833



power feed for power cable, top right or left

L=35
screw contact for power cable
(order cable separately)
incl. 2 end caps
48 V DC, 12.5 A

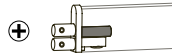
article no.
 93614
 93612
 93613



power feed for power cable, top centre

L=35
screw contact for power cable
(order cable separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.
 93619
 93616
 93617



power feed for power cable, on axis left or right

L=18
screw contact for power cable
(order cable separately)
incl. end cap
48 V DC, 12.5 A

article no.
 91104
 91105
 91125
 91129

LV stranded cable

silver transparent
incl. 4 cable end sleeves

2x2,5 mm², running metre
2x4 mm², running metre
2x6 mm², running metre



article no.

90525
90520
90500



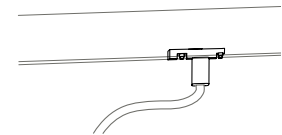
power feed for fabric cable, on axis left or right

L=31 mm, screw contact, incl.
end cap, fabric cables with outside
diameter of max. 7.0 mm, (order cable
separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.

article no.
 91137
 91138
 91139
 91140

adapter power feed , positioned as required, for fabric cable

adapter power feed, hide, incl. 1 end
cap, fits into the inner conductor side
of the track, for fabric cable with an
outer diameter max. 7.0 mm, (order
cable separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.



91131
 91133
 91135
 91141

fabric cable

running meter
round flexible cable, double insulated,
covered by cotton,
outside diameter 6,2 mm,
cable cross-section 2 x 0.75 mm²
power max. 200 W for max. cable
length of L < 5000 mm
Selection of www.creative-cables.com

* The fabric cable colour - RC43 is
our choice to match the bronze
track colour.



article no.
 90551-RC35
 90551-RC01
 90551-RC04
 90551-RC43*

cable suspension

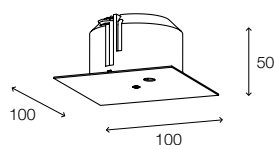
without power feed
L = 1500
can be positioned as required



article no.

93604

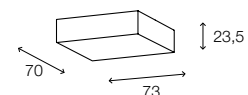
<https://www.buschfeld.de/en/cable-suspension/93604>



recessed canopy for power feed by cable

for LV cable connection or
HV mains connection,
cover plate 100x100
depth 50
diameter 74

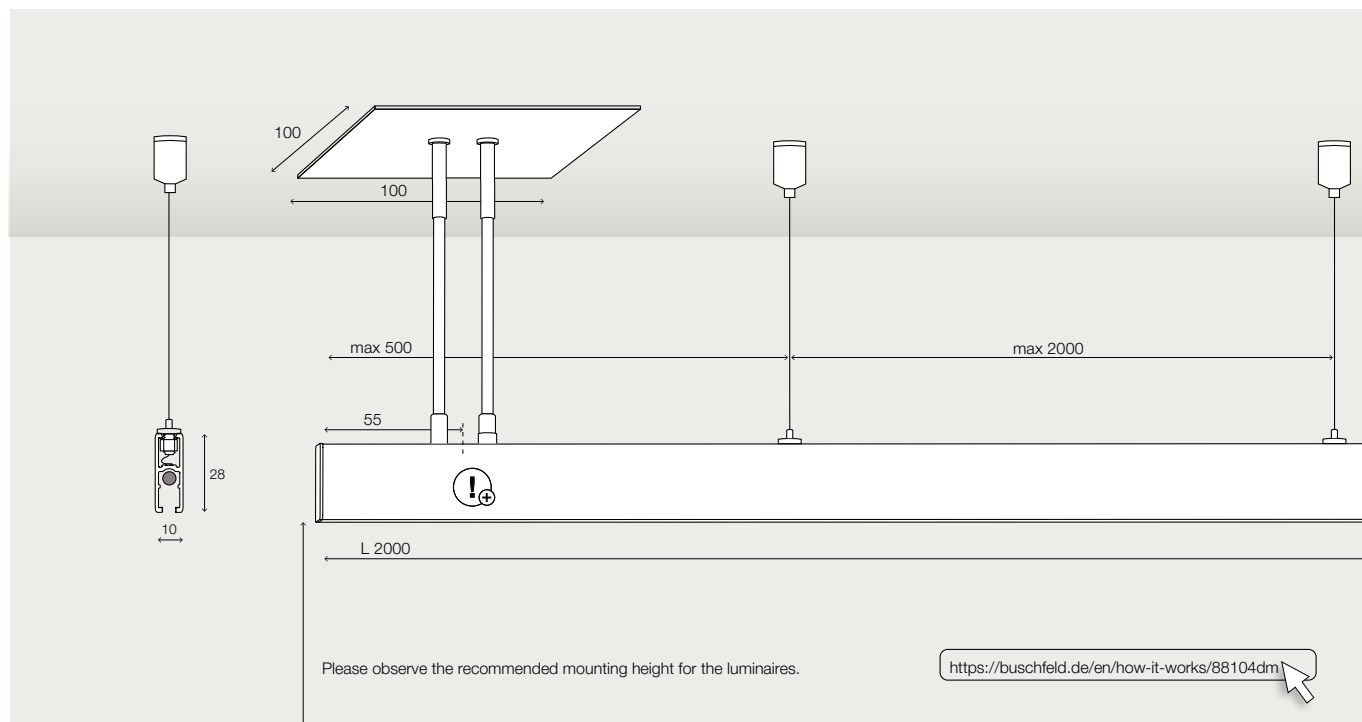
article no.
 93510
 93517
 93518



surface-mounted canopy for power feed by cable

for LV cable connection or
HV mains connection,
70x73x23,5

article no.
 93500
 93537
 93538



Pendant track with power feed for power feed rods

pendant track

L=2000
can be shortened
without cable suspension
48 V DC, 12.5 A

article no.

- 48-93002
- 48-93032
- 48-93042
- 48-93082

L=3000

Professional Product: please note
additional handling and shipping
costs.

article no.

- 48-930023
- 48-930323
- 48-930423
- 48-930823

pendant track with power feeds for power feed rods

L=2000
left or right, can be shortened,
plug contact for power feed rods,
(order power feed rod separately), incl.
2 end caps,
48 V DC, 12.5 A

article no.

- 48-93004
- 48-93034
- 48-93044
- 48-93084

L=3000

Professional Product: please note
additional handling and shipping
costs.

article no.

- 48-930043
- 48-930343
- 48-930443
- 48-930843

power feed for power feed rods, top left or right

L=35
plug contact for power feed rod,
(order power feed rod separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 93014
- 93012
- 93013

power feed for power feed rods, top centre

L=35
with plug contact for power feed rod,
(order power feed rod separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 93019
- 93016
- 93017

power feed rod

L=2000, can be cut into sections

L=1000, can be cut into sections

article no.

93566

93567

**spacer**

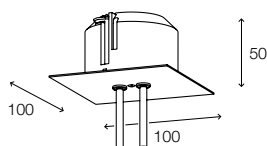
for power feed rods longer than 1 m

article no.

93062

recessed canopy for power feed rods

for LV with plug-in coupling for power feed rods, cover plate
100 x 100
depth 50
diameter 74



article no.

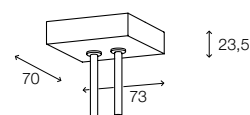
93525

93535

93545

surface-mounted canopy for power feed rods

for LV with plug-in coupling for power feed rods, 70 x 73 x 23,5



article no.

93524

93534

93544

cable suspension

without power feed

L=1500

can be positioned as required

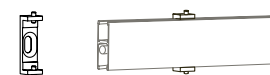


article no.

93604

<https://www.buschfeld.de/en/cable-suspension/93604>
flat clip

for mounting Pend track flat on walls or ceilings. The track can be installed vertically or horizontally. available in packs of 3



article no.

91959 a

91959 w

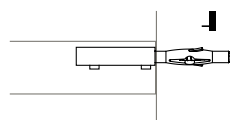
91959 b

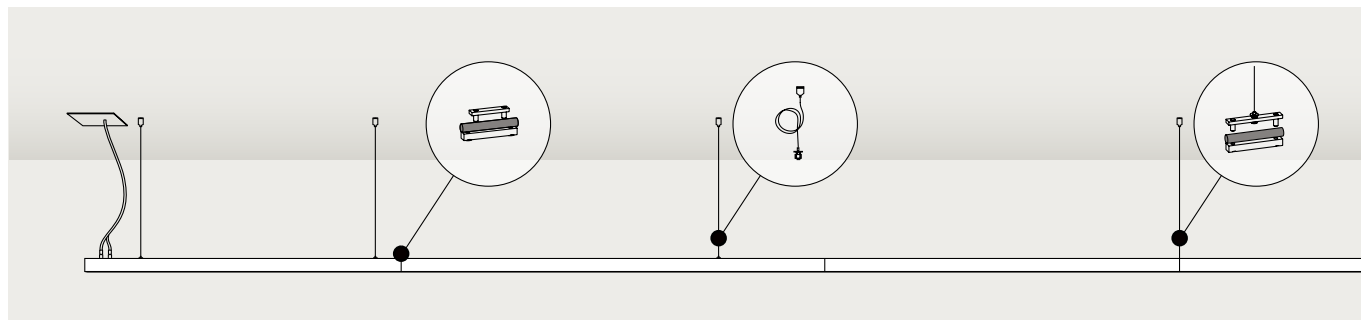
<https://www.buschfeld.de/en/flat-clip/91959-1>
wall or ceiling fastener

L=0

article no.

93505





Connectors



**linear connector,
conductive**

L=0

article no.

93103

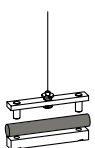


**linear connector,
insulated**

L=0

article no.

93102

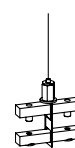


**linear connector,
conductive**

L=0
with cable suspension (L=1500)

article no.

93109

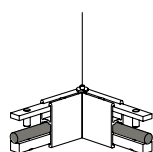


**linear connector,
insulated**

L=0
with cable suspension (L=1500)

article no.

93112

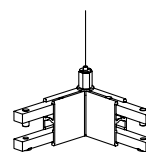


**angle connector 90°,
conductive**

L=35
with cable suspension (L=1500)

article no.

● 93202
○ 93232
● 93242

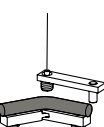


**angle connector 90°,
insulated**

L=35
with cable suspension (L=1500)

article no.

● 93205
○ 93235
● 93245

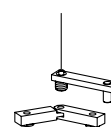


**joint connector 80°-280°,
conductive**

L=0
with cable suspension (L=1500)

article no.

93206

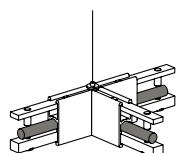
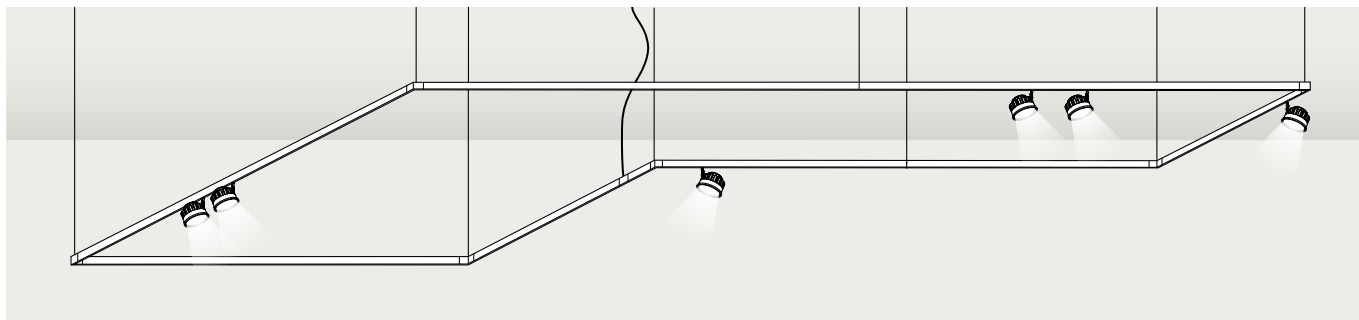


**joint connector 80°-280°,
non-conductive**

L=0
with cable suspension (L=1500)

article no.

93208

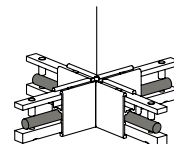


cross connector, 3-way conductive

L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93302
○ 93332
● 93342

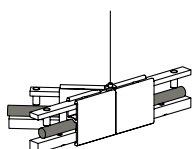


T-connector, 4-way conductive

L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93402
○ 93432
● 93442

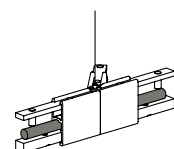


T-connector 45° left, 3-way conductive

L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93902
○ 93932
● 93942

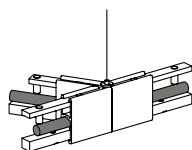


T-connector 45° right, 3-way conductive

L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93903
○ 93933
● 93943

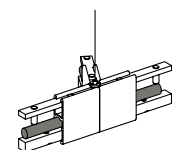


T-connector 60° left, 3-way conductive

L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93904
○ 93934
● 93944

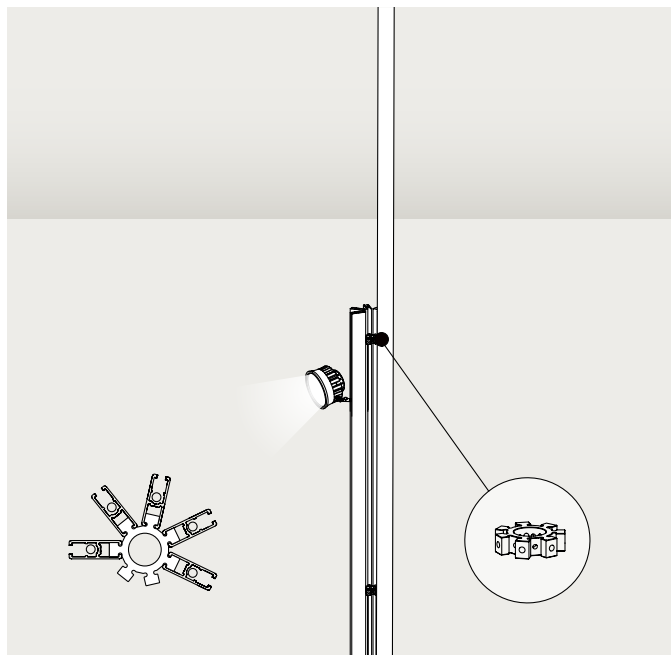
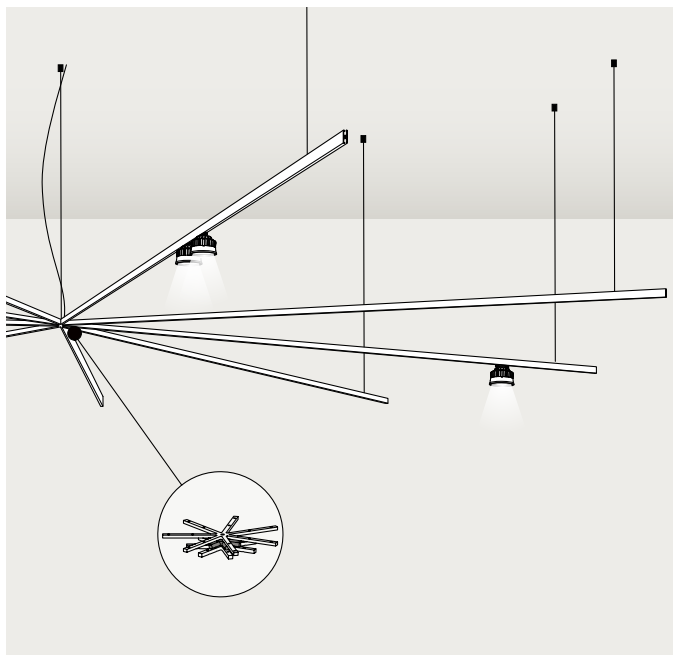


T-connector 60° right, 3-way conductive

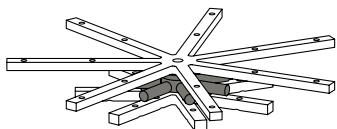
L = 60
with cable suspension (L = 1500)
Other versions available on request!

article no.

● 93905
○ 93935
● 93945



Connectors



star-shaped connectors horizontal, conductive

Star-shaped connectors are available with 5-12 beams. The track is inserted directly onto the connector, leading to a central point. The sections of track (the beams) are electrically interconnected.

We are glad to help you achieve your design ideas.

rays	article no.
5	93805
6	93806
7	93807
8	93808
9	93809
10	93810
11	93811
12	93812

<https://buschfeld.de/en/how-it-works/88111>



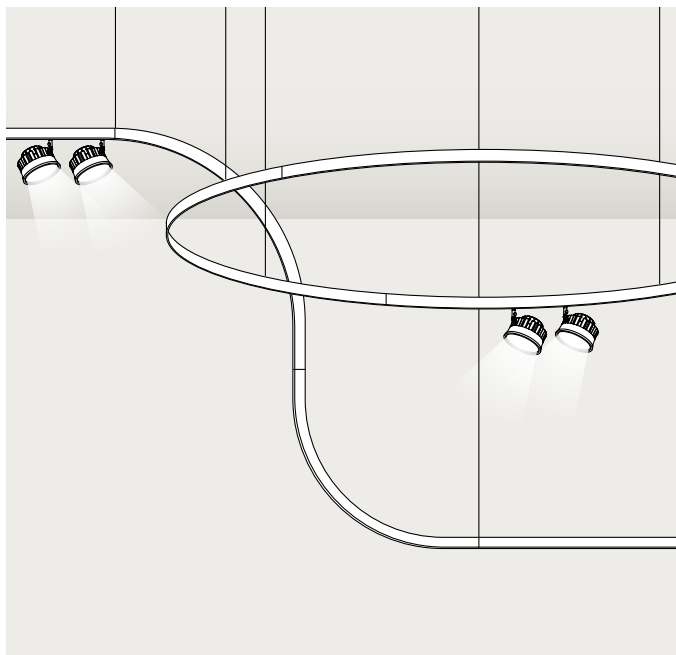
star-shaped connectors vertical, non-conductive

Available with 5-12 beams. The track is inserted directly onto the connector, running parallel. The connection is purely mechanical. Power feeds are applied as required. Please inquire separately.

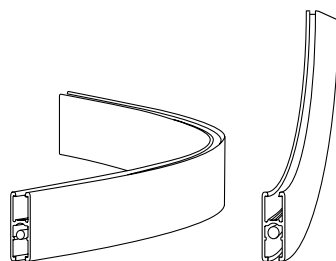
rays	article no.
5	95705
6	95706
7	95707
8	95708
9	95709
10	95710
11	95711
12	95712

<https://buschfeld.de/en/how-it-works/88112>





custom-made: radius



Curved sections of track, flat or upright (min. radius of 500 mm), are also available.

Please send us an e-mail with the data applicable for your planned track layout to info@buschfeld.de
Further information on page 133.

<https://buschfeld.de/en/how-it-works/88114>



custom-made: colour



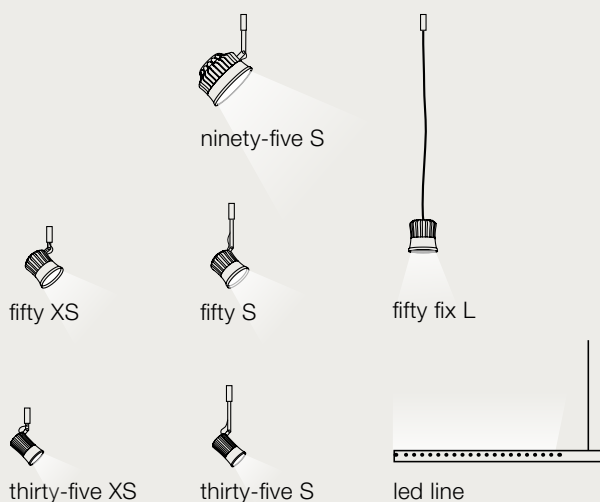
All track and shades can be custom made in the colour (RAL-compliant) of your choice.

Please send us an e-mail with information with the layout of the track, the number of luminaires, choice of colour(s) to: info@buschfeld.de
Further information on page 134.

<https://buschfeld.de/en/how-it-works/88107>



Luminaires for pend48



luminaires page 63 ff.
power supply units page 115 ff.

Sense System

ceiling48

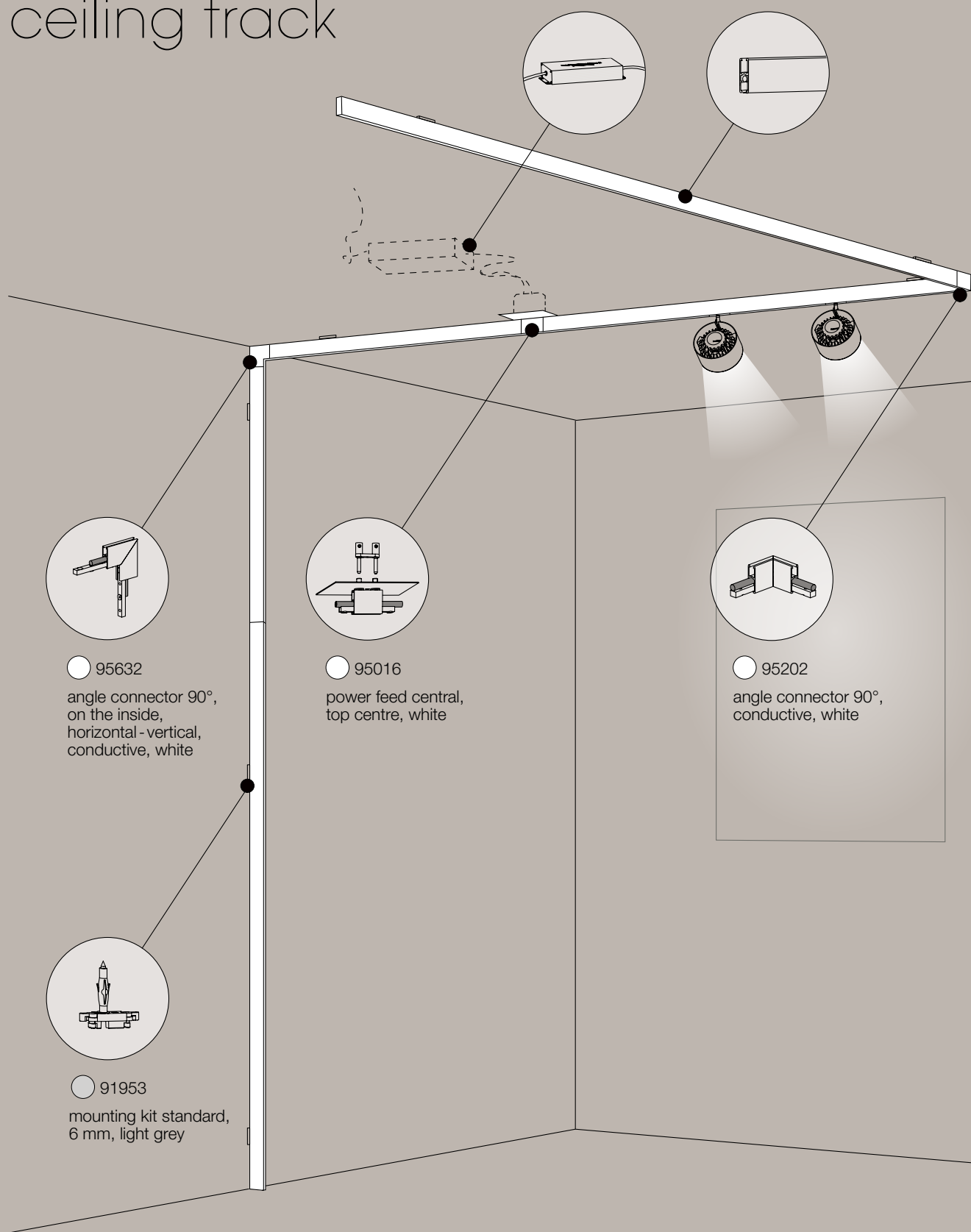
ceiling track

48-90143

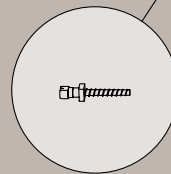
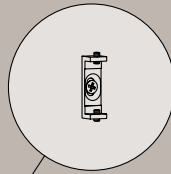
control gear, MW 150,
concealed mounting

48-93032

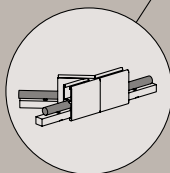
ceiling track,
white



91959 w
flat clip, white



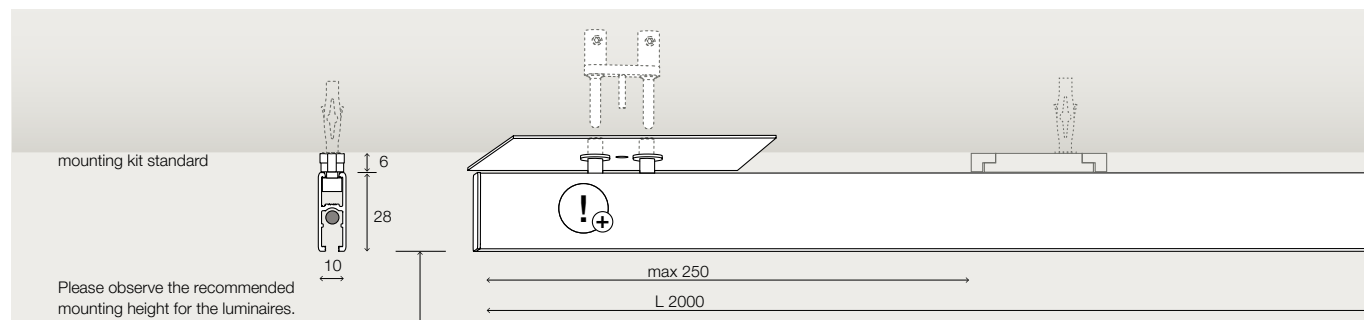
91954
mounting kit mini,
2 mm, light grey



95932
T-connector 45°,
3-way conductive,
white

The ceiling tracks Ceiling48 can be installed either on ceilings or on walls. Select from three alternatives to assemble them. Ceiling48 is as interesting for a permanent lighting solution as it is for a temporary installation.

<https://buschfeld.de/en/how-it-works/88105>



Ceiling track, power feeds and accessories

<https://buschfeld.de/en/how-it-works/88105dm>

ceiling track

L=2000
can be shortened
48 V DC, 12.5 A

! Mounting kit to be ordered separately.

article no.

- 48-93002
- 48-93032
- 48-93042
- 48-93082

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-930023
- 48-930323
- 48-930423
- 48-930823

ceiling track with power feed, left or right

L=2000
can be shortened, with power feed, right or left, cover plate 100x100, incl. plug and 2 end caps 48 V DC, 12.5 A

! Mounting kit to be ordered separately.

article no.

- 48-95004
- 48-95034
- 48-95044
- 48-95084

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-950043
- 48-950343
- 48-950443
- 48-950843

ceiling track with recessed power feed

L=2000
left or right, can be shortened, screw contact for power cable max. 2.5 mm² ! (order cable separately), incl. 2 end caps, 48 V DC, 12.5 A

! Mounting kit to be ordered separately.

article no.

- 48-93003
- 48-93039
- 48-93043
- 48-93083

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-930033
- 48-930393
- 48-930433
- 48-930833

mounting kit standard

The track can be mounted vertically or horizontally.
H=6 mm, available in packs of 2

article no.

- 91953
- 91953 b

mounting kit mini

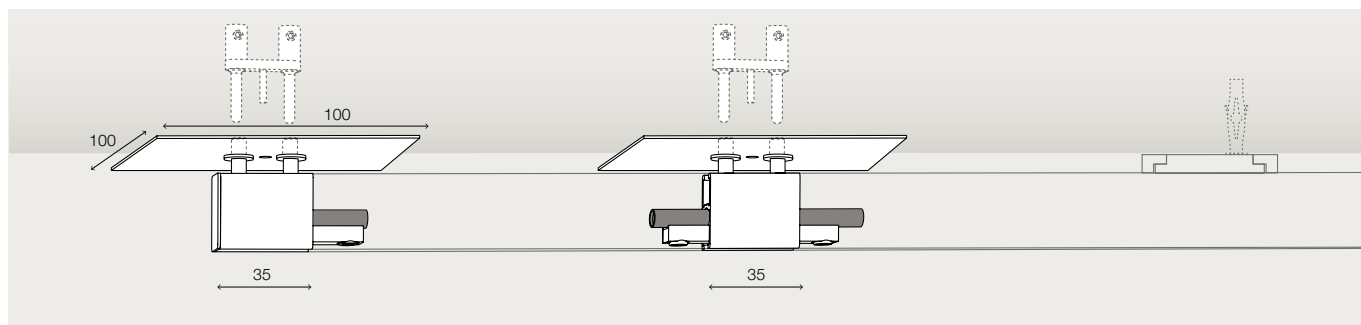
The track can be mounted vertically or horizontally.
H=2 mm, available in packs of 2

article no.

- 91954
- 91954 b

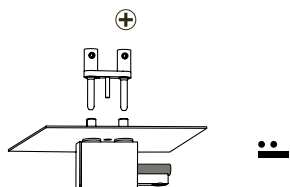
<https://www.buschfeld.de/en/mounting-kit-standard/91953>

<https://www.buschfeld.de/en/mounting-kit-mini/91954>



power feed at end, top left or right

L=35
with cover plate 100x100,
incl. plug and 2 end caps
48 V DC, 12.5 A

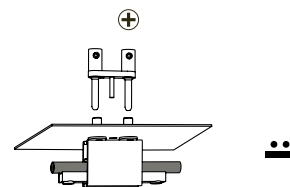


article no.

- 95014
- 95012
- 95013

power feed central, top centre

L=35
with cover plate 100x100,
incl. plug and 2 end caps
48 V DC, 12.5 A



article no.

- 95019
- 95016
- 95017

power feed for power cable, on axis left or right

L=18
screw contact for power cable
(order cable separately)
incl. end cap
48 V DC, 12.5 A



article no.

- 91104
- 91105
- 91125
- 91129

LV stranded cable

silver transparent
incl. 4 cable end sleeves

- 2x2,5 mm², running metre
- 2x4 mm², running metre
- 2x6 mm², running metre

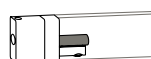


article no.

- 90525
- 90520
- 90500

power feed for fabric cable, on axis left or right

L=31 mm, screw contact, incl. end
cap, for fabric cables with outside
diameter of max. 7.0 mm, (order cable
separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.

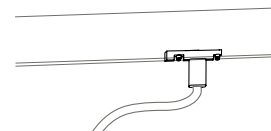


article no.

- 91137
- 91138
- 91139
- 91140

adapter power feed , positioned as required, for fabric cable

adapter power feed, hide, incl. 1 end
cap, fits into the inner conductor side
of the track, for fabric cable with an
outer diameter max. 7.0 mm, i(order
cable separately)
48 V DC, 12.5 A
Please note a possible power limita-
tion for the supply cable.

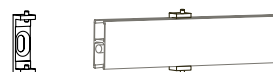


article no.

- 91131
- 91133
- 91135
- 91141

flat clip

For mounting track flat on the wall /
ceiling. The track can be mounted
vertically or horizontally.
Available in packs of 3



article no.

- 91959 a
- 91959 w
- 91959 b

fabric cable

running meter
round flexible cable, double insulated,
covered by cotton,
outside diameter 6,2 mm,
cable cross-section 2 x 0.75 mm²
power max. 200 W for max. cable
length of L < 5000 mm
Selection of www.creative-cables.com

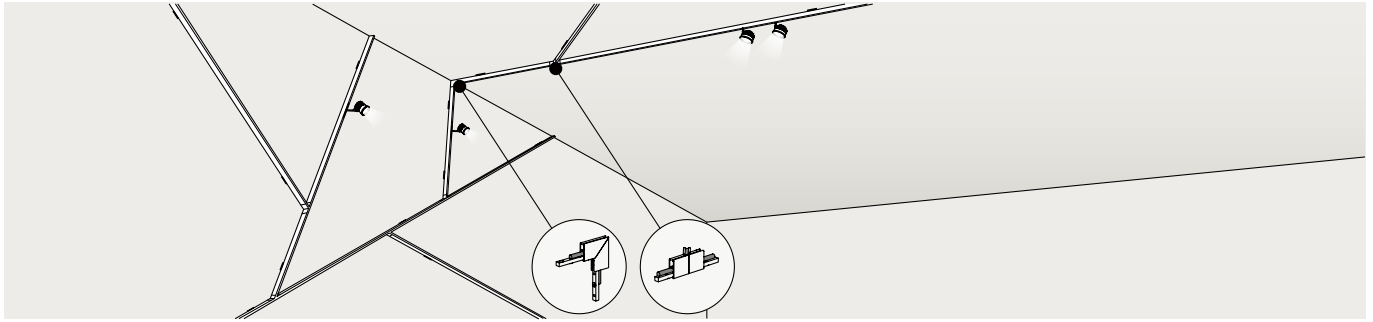
* The fabric cable colour - RC43 is
our choice to match the bronze
track colour.



article no.

- 90551-RC35
- 90551-RC01
- 90551-RC04
- 90551-RC43*

<https://buschfeld.de/en/products/sense-system/48-91959>



Connectors



**linear connector,
conductive**

L=0

article no.

91302



**linear connector,
insulated**

L=1

article no.

91304

91305

91307



**joint connector 80-280°,
horizontal-horizontal**

L=0

mitre cut required on site

article no.

conductive h h

91502

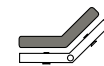
non-conductive h h

95208

**joint connector 70-290°,
horizontal-slanting**

L=0

mitre cut required on site
e.g. in stairwells



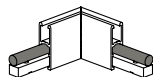
article no.

conductive h v

91504

non-conductive h v

91505



**angle connector 90°,
conductive**

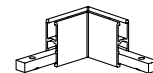
L=35

article no.

95202

95232

95242



**angle connector 90°,
insulated**

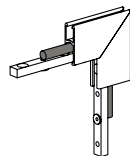
L=35

article no.

95205

95235

95245



**angle connector 90°,
on the inside,
horizontal-vertical,
conductive**

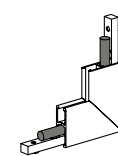
L=50,
inner conductor on the inside
solid component
(no mitre cut required)

article no.

95602

95632

95642



**angle connector 90°,
on the outside,
horizontal-vertical,
conductive**

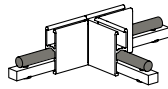
L=50,
inner conductor on the outside
solid component
(no mitre cut required)

article no.

95702

95732

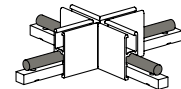
95742



T-connector, 3-way conductive

L=60
Other versions available on request!

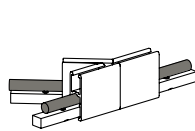
article no.
 95302
 95332
 95342



cross connector, 4-way conductive

L=60
Other versions available on request!

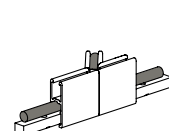
article no.
 95402
 95432
 95442



T-connector 45° left 3-way conductive

L=60
Other versions available on request!

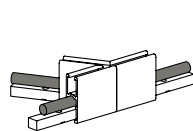
article no.
 95902
 95932
 95942



T-connector 45° right 3-way conductive

L=60
Other versions available on request!

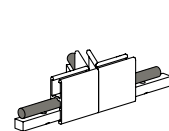
article no.
 95903
 95933
 95943



T-connector 60° left 3-way conductive

L=60
Other versions available
on request!

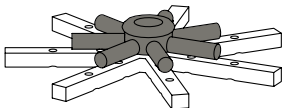
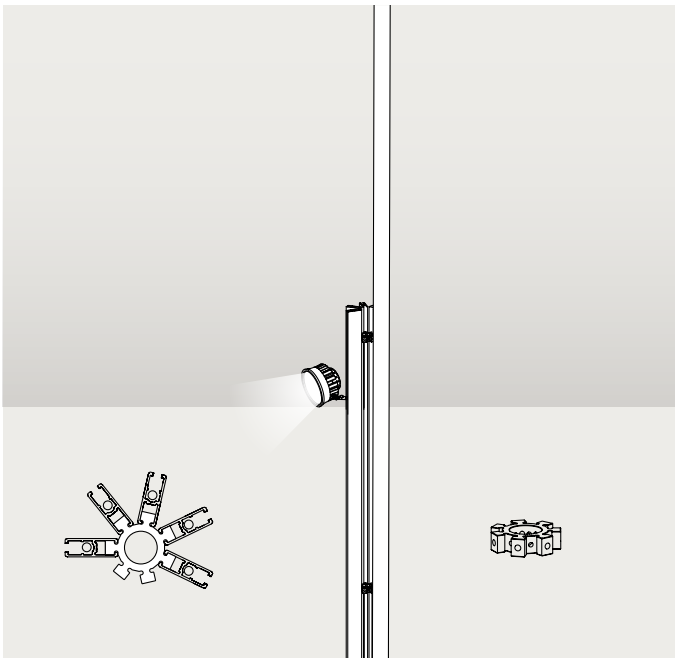
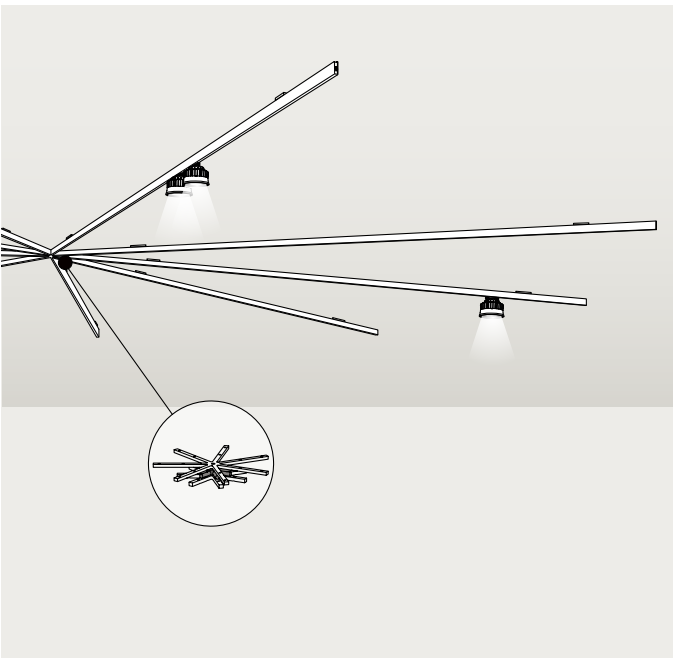
article no.
 95904
 95934
 95944



T-connector 60° right 3-way conductive

L=60
Other versions available
on request!

article no.
 95905
 95935
 95945



**star-shaped connectors
horizontal, conductive**

Star-shaped connectors
horizontal, conductive
Available with 5-12 beams.
The track is inserted di-
rectly onto the connector,
leading to a central point.
The sections of track (the
beams) are electrically
interconnected.

We are glad to help you
achieve your design ideas.

rays	article no.
5	95805
6	95806
7	95807
8	95808
9	95809
10	95810
11	95811
12	95812

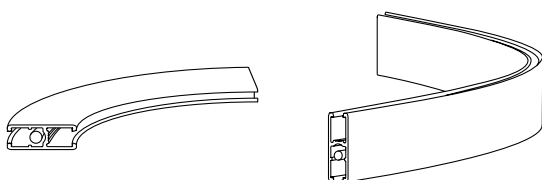
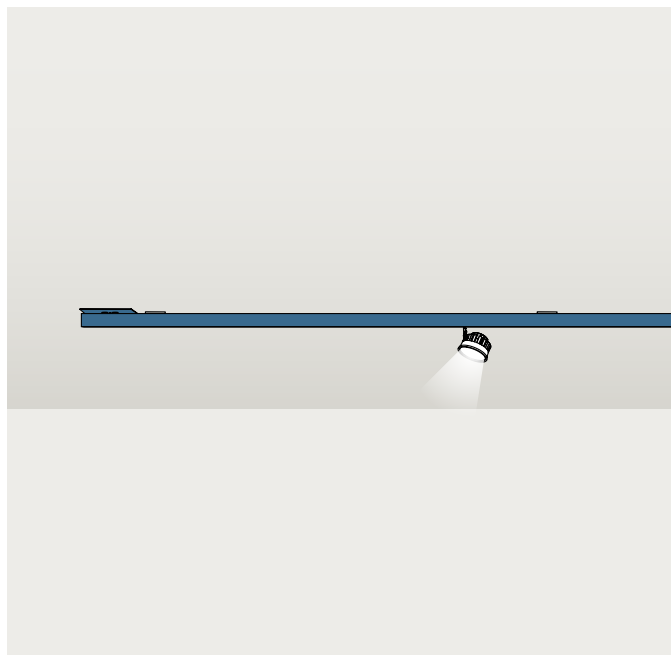
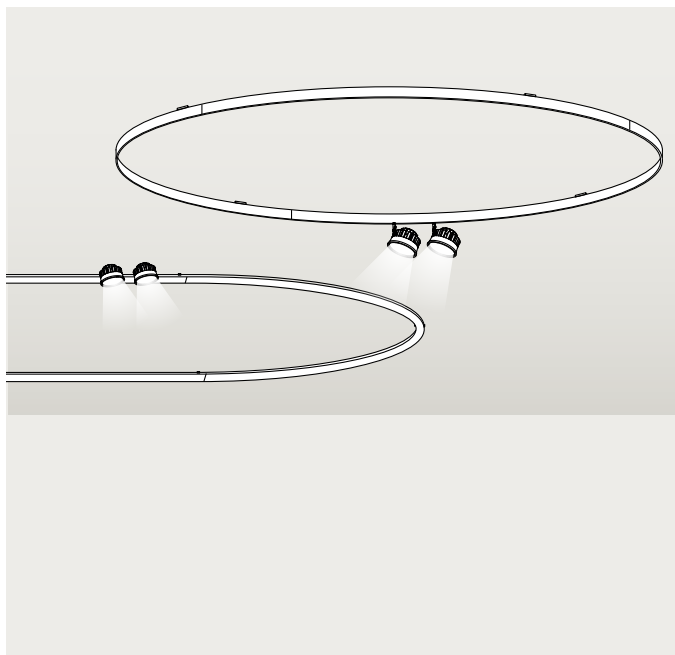
<https://buschfeld.de/en/how-it-works/88111>

**star-shaped connectors
vertical, non-conductive**

Available with 5-12 beams.
The track is inserted
directly onto the con-
nector, running parallel.
The connection is purely
mechanical. Power feeds
are applied as required.
Please inquire separately.

rays	article no.
5	95705
6	95706
7	95707
8	95708
9	95709
10	95710
11	95711
12	95712

<https://buschfeld.de/en/how-it-works/88112>



custom-made: radius

Curved sections of track, flat or upright (min. radius of 500 mm), are also available.

Please send us an e-mail with the data applicable for your planned track layout to info@buschfeld.de
Further information on page 133.

<https://buschfeld.de/en/how-it-works/88114>



custom-made: colour



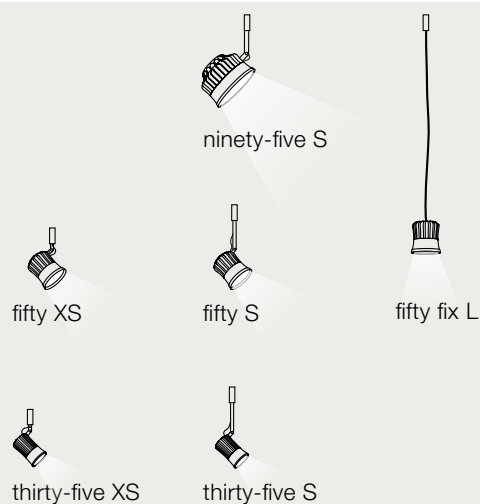
All track and shades can be custom made in the colour (RAL-compliant) of your choice.

Please send us an e-mail with information with the layout of the track, the number of luminaires, choice of colour(s) to: info@buschfeld.de
Further information on page 134.

<https://buschfeld.de/en/how-it-works/88107>



Luminaires for ceiling48

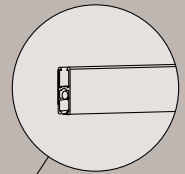
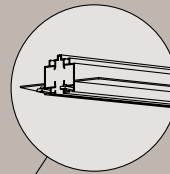


luminaires page 63 ff.
power supply units page 115 ff.

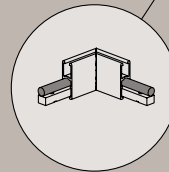
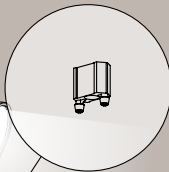
Sense System in48 recessed track

98200
drywall profile

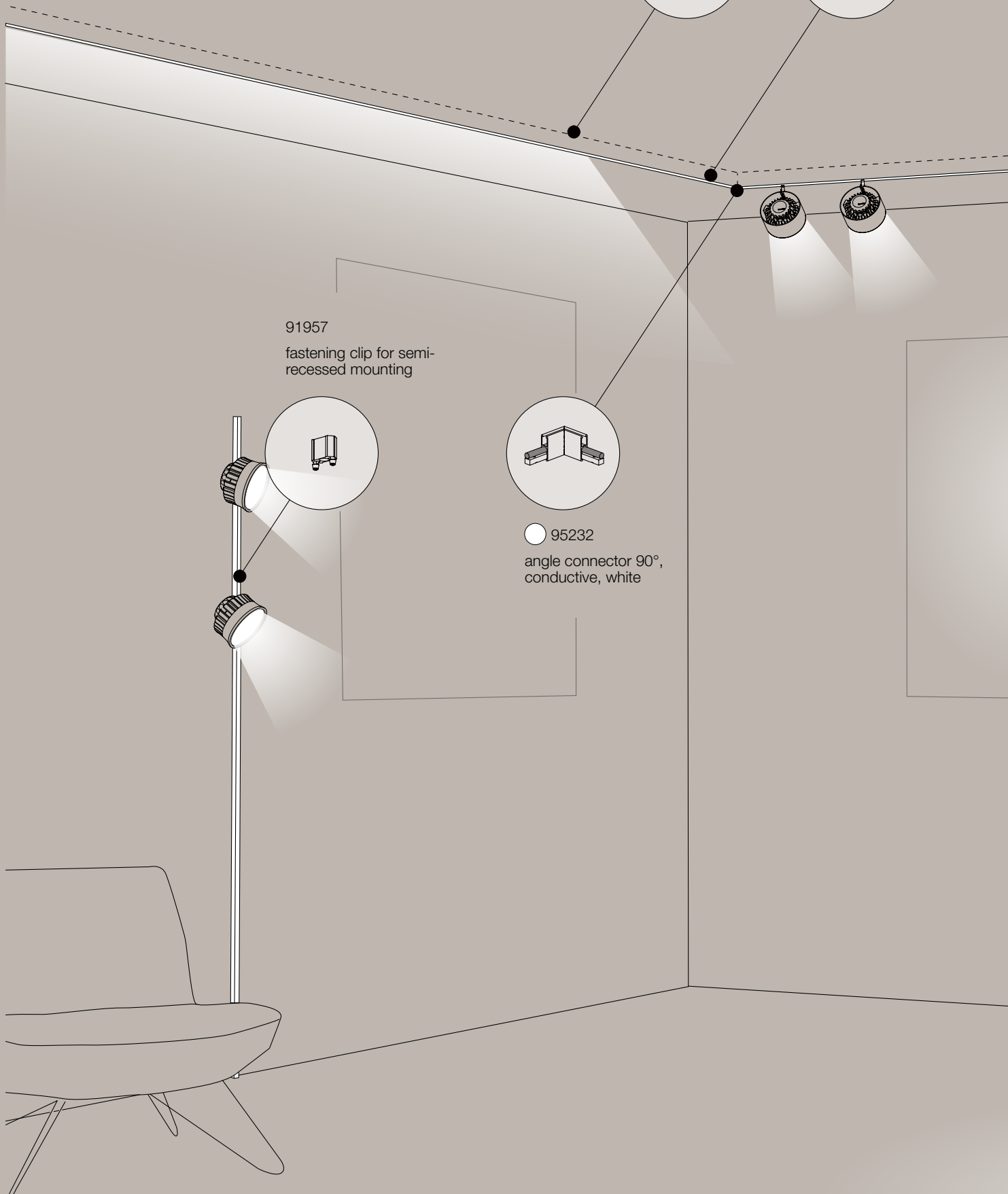
48-93032
recessed track, white



91957
fastening clip for semi-
recessed mounting



95232
angle connector 90°,
conductive, white



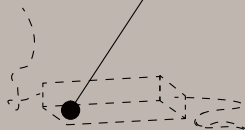
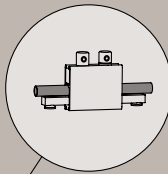
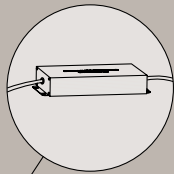
48-90143

control gear MW 150,
concealed mounting



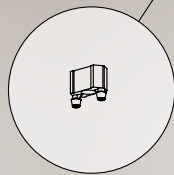
93615

power feed top centre,
white



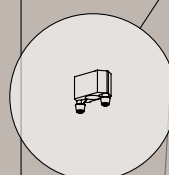
91955

fastening clip for flush
mounting

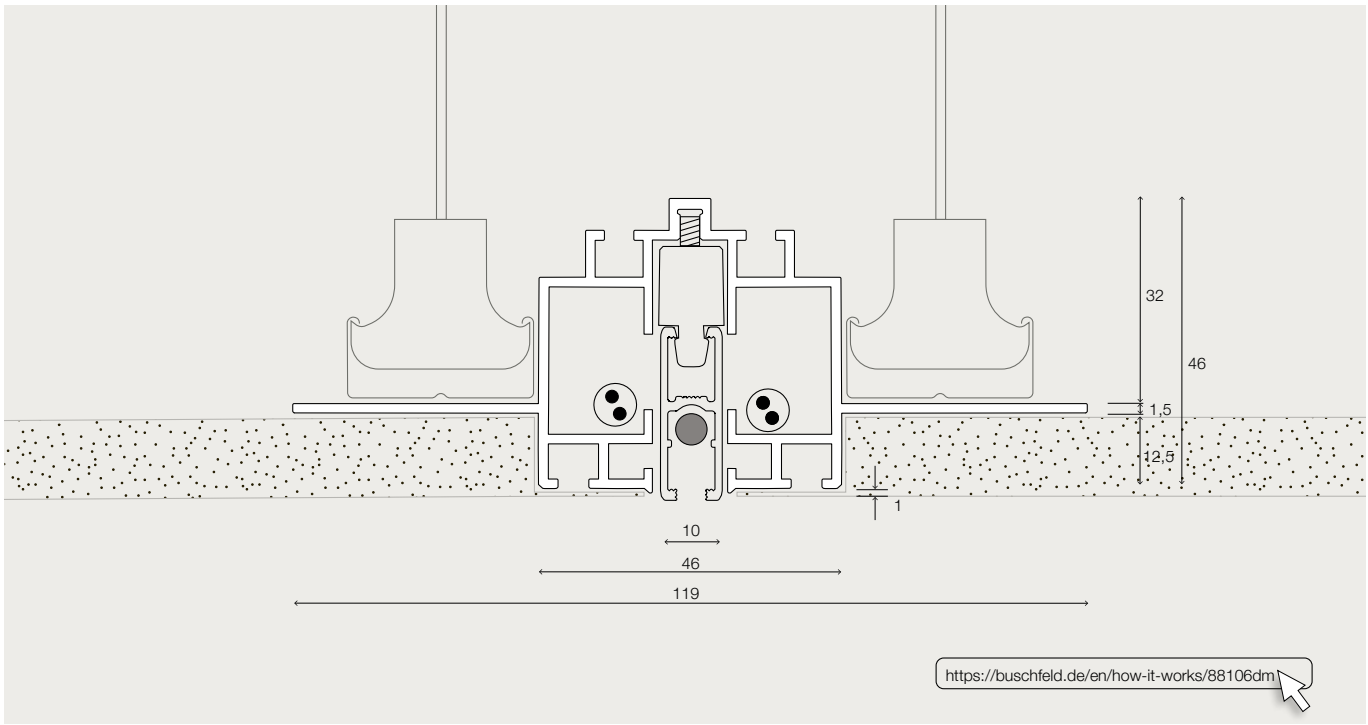


91956

fastening clip for
mounting in shelves
and cupboards



The recessed track In48 comprises ultra-slimline track systems for recessed mounting on ceilings or walls. Recessed track applications need to be planned well in advance, given that the drywall profile needs to already have been installed in the drywall construction. Once the surface has been plastered and painted, all that remains visible is a 10 mm wide line.



Drywall profile and accessories

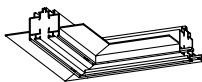


drywall profiles

article no.

Aluminium profile for flush mounting on ceilings or walls, horizontal** and vertical L=2000, can be shortened
! Mounting kit to be ordered separately.

98200

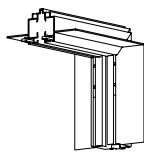


corner element 90° horizontal-horizontal

article no.

Aluminium profile for flush mounting on ceilings or walls

98050



corner element 90°, horizontal-vertical

article no.

Aluminium profile for flush mounting on ceilings or walls, for horizontal and/or vertical mounting

98055



LV stranded cable

silver transparent incl. 4 cable end sleeves

article no.

2x2,5 mm², running metre

90525

2x4 mm², running metre

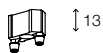
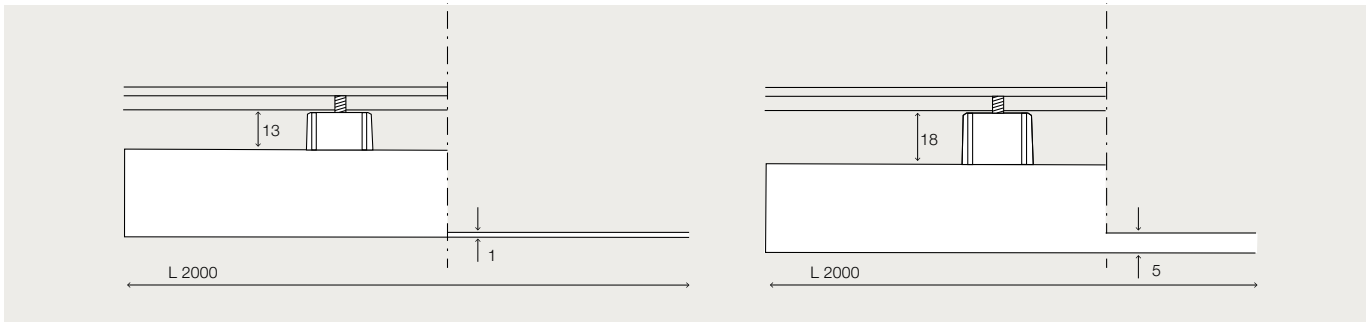
90520

2x6 mm², running metre

90500



Design: Hans Buschfeld



**mounting kit in
for flush mounting**

kit for flush mounting
of in48 track,
supplied in packs of 5

article no.

91955



**mounting kit in
for semi-recessed
mounting**

special kit for semi-recessed mounting
of in48 track,
5 mm of the track remain visible
supplied in packs of 5

article no.

91957

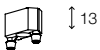
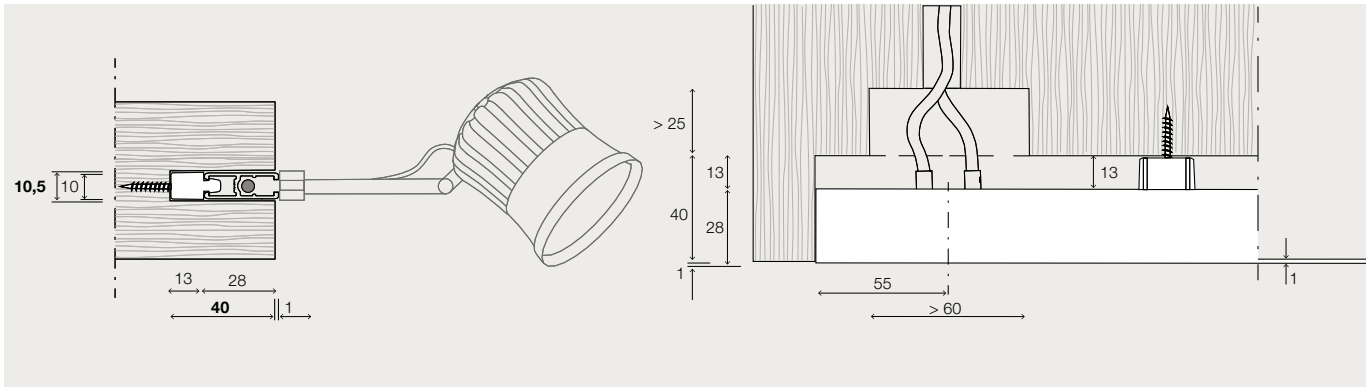


distance tape

required for horizontal
mounting of in48 track
L=5000

article no.

91958

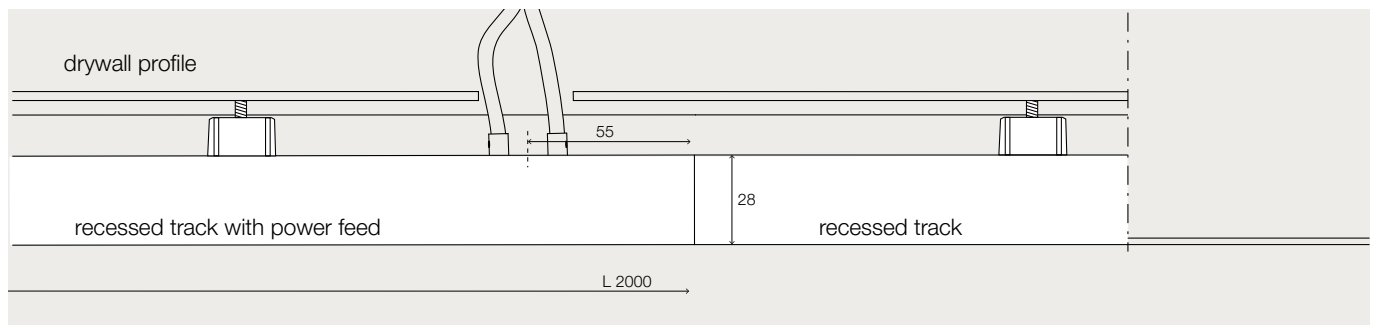


**mounting kit in
for mounting in shelves**

in48 mounting kit for mounting in
shelves, 1 mm of the track remains
visible, supplied in packs of 2,
NB instructions re. milling!

article no.

91956



Recessed track with power feed



recessed track

L=2000
can be shortened
48 V DC, 12.5 A

❗ **Mounting kit to be ordered separately.**

article no.

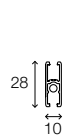
- 48-93002
- 48-93032
- 48-93042
- 48-93082

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-930023
- 48-930323
- 48-930423
- 48-930823



recessed track with power feed

L=2000
left or right, can be shortened,
screw contact for power cable
(order cable separately)
incl. 2 end caps, 48 V DC, 12.5 A

❗ **Mounting kit to be ordered separately.**

article no.

- 48-93006
- 48-93036
- 48-93046
- 48-93086

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-930063
- 48-930363
- 48-930463
- 48-930863



recessed track with recessed power feed

L=2000
left or right, can be shortened,
screw contact for power cable
max. 2.5 mm² ! (order cable separately)
incl. 2 end caps, 48 V DC, 12.5 A

❗ **Mounting kit to be ordered separately.**

article no.

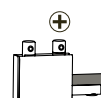
- 48-93003
- 48-93039
- 48-93043
- 48-93083

L=3000

Professional Product: please note additional handling and shipping costs.

article no.

- 48-930033
- 48-930393
- 48-930433
- 48-930833

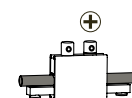


power feed, top left or right

L=35
screw contact for power cable
(order cable separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 93614
- 93612
- 93613

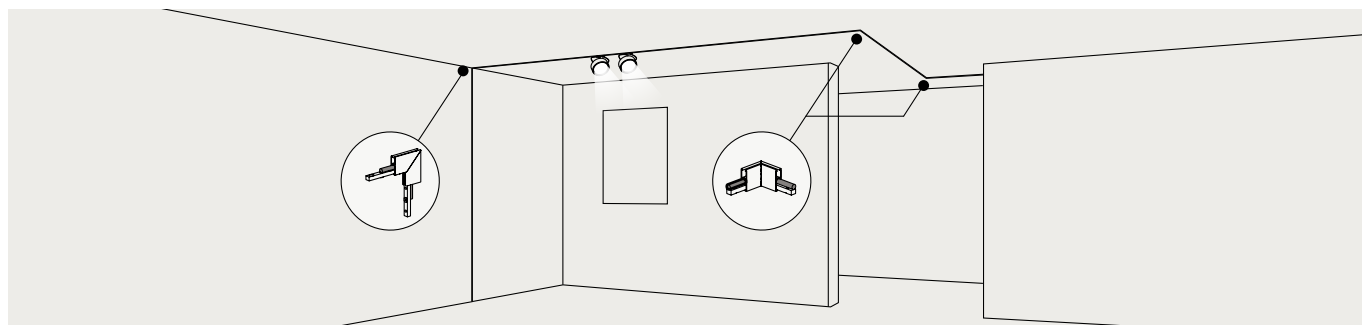


power feed, top centre

L=35
screw contact for power cable
(order cable separately)
incl. 2 end caps
48 V DC, 12.5 A

article no.

- 93619
- 93616
- 93617



Connectors



**linear connector,
conductive**

L=0

article no.

91302



**linear connector,
insulated**

L=1

article no.

91304

91305

91307



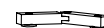
**joint connector 80-280°,
horizontal-horizontal,
conductive**

L=0

mitre cut required on site

article no.

91502



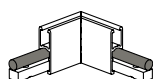
**joint connector 80-280°,
horizontal-horizontal,
non-conductive**

L=0

mitre cut required on site

article no.

95208



**angle connector 90°,
conductive**

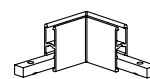
L=35

article no.

95202

95232

95242



**angle connector 90°,
insulated**

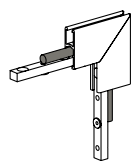
L=35

article no.

95205

95235

95245



**angle connector 90°,
on the inside,
horizontal-vertical,
conductive**

L=50

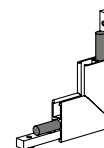
horizontal-vertical
inner conductor on the inside

article no.

95602

95632

95642



**angle connector 90°,
on the outside,
horizontal-vertical,
non-conductive**

L=50

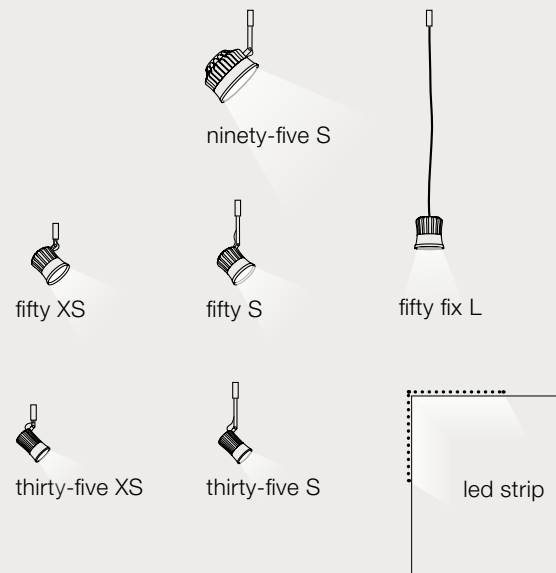
horizontal-vertical
inner conductor on the outside

article no.

95702

95732

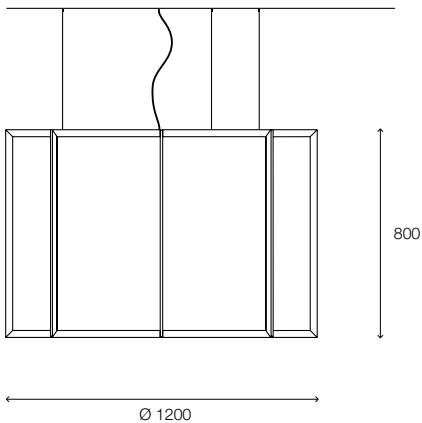
95742

Luminaires for in48

luminaires page 63 ff.
power supply units page 115 ff.

freestyler

Using sections of system track, luminous structures can be created to enhance a space. The structures can take the form of a sphere, or they can be cylindrical or oval. It is also possible to design star-shaped structures or geometrical gridlike forms. System luminaires can then be added - positioned anywhere along the track.



blade wheel 1200x800

pendant luminaire

Ø = 1200 mm, height 800 mm
Wheel consisting of a number of sections of track, incl. cable suspensions, power feed with screw contact and cable.
Standard: the luminaire modules are locked into place on the outer side of the track, plus luminaires and control gear. Other dimensions for the same price, if height and diameter do not exceed 2000 mm.
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

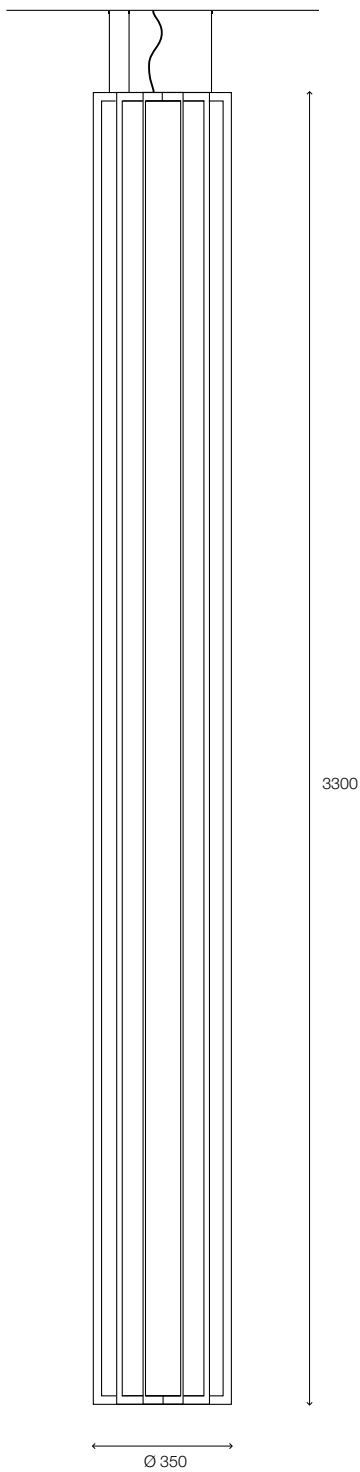
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



blade wheel 350x3300

pendant luminaire

Ø=350 mm, height 3300 mm
Wheel consisting of a number of sections of track, incl. cable suspensions, power feed with screw contact and cable.
Standard: the luminaire modules are locked into place on the outer side of the track, plus luminaires and control gear. Other dimensions for the same price, if height and diameter do not exceed 4000 mm.
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

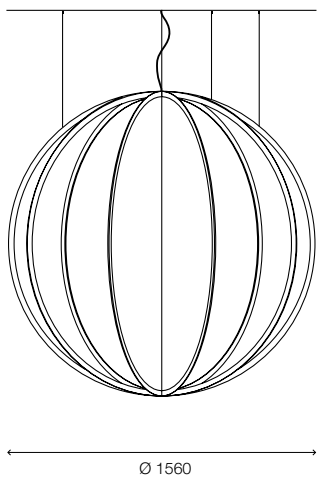
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



sphere 1500

project-related luminaire, sphere-shaped

Ø = 1500 mm
Sphere consisting of a number of curved sections of track, incl. cable suspensions, power feed with screw contact and cable
Standard: the luminaire modules are locked into place on the outer side of the track, plus luminaires and control gear
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

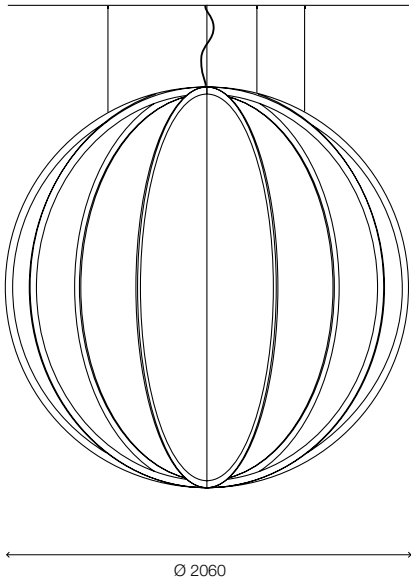
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



sphere 2000

project-related luminaire, sphere-shaped

Ø=2000 mm
Sphere consisting of a number of curved sections of track, incl. cable suspensions, power feed with screw contact and cable standard: the luminaire modules are locked into place on the outer side of the track, plus luminaires and control gear
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

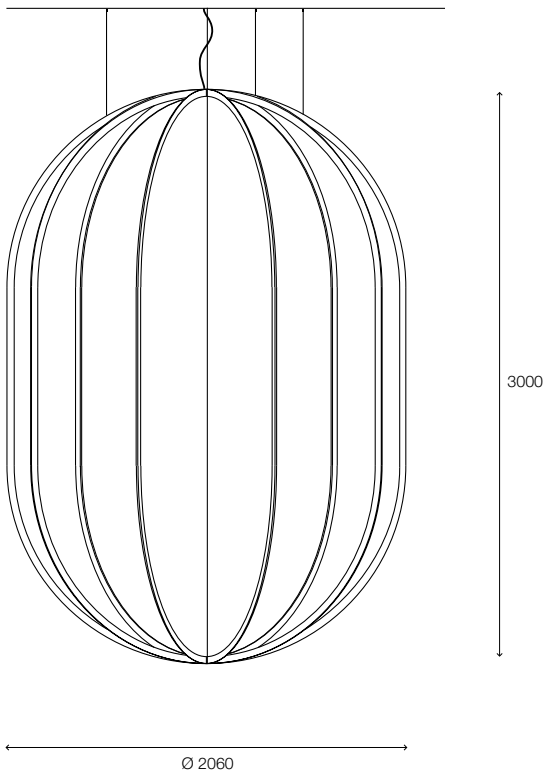
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



sphere 2000x3000

project-related luminaire

Ø=2000 mm, height 3000 mm
Sphere consisting of a number of curved sections of track, incl. cable suspensions, power feed with screw contact and cable
Standard: the luminaire modules are locked into place on the outer side of the track, plus luminaires and control gear
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

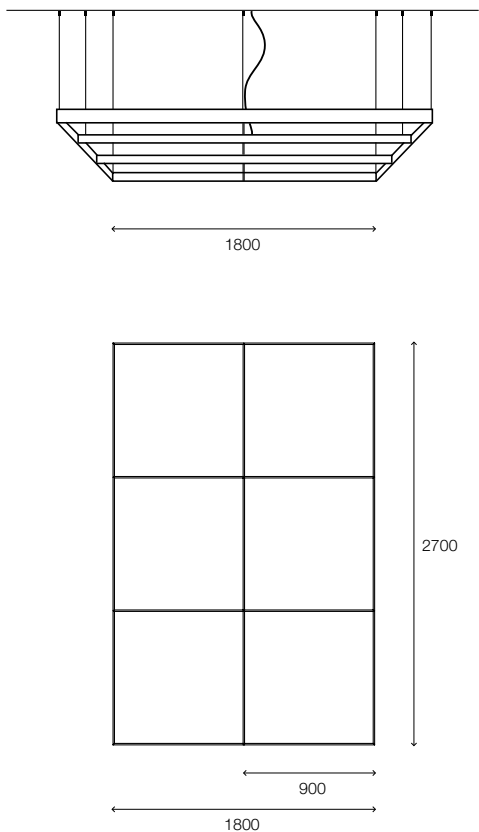
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



Design: buschfeld Design



square

grid-like matrix structure based on the shape of a square

Each section of the grid structure 900x900 mm
Rectangle with subdivisions, incl. cable suspension or ceiling adapters,
power feed with screw contact and cable
Luminaire modules are locked into place on the lower side of the track,
plus luminaires and control gear
48 V DC, 12.5 A

grid



2:3



1:4



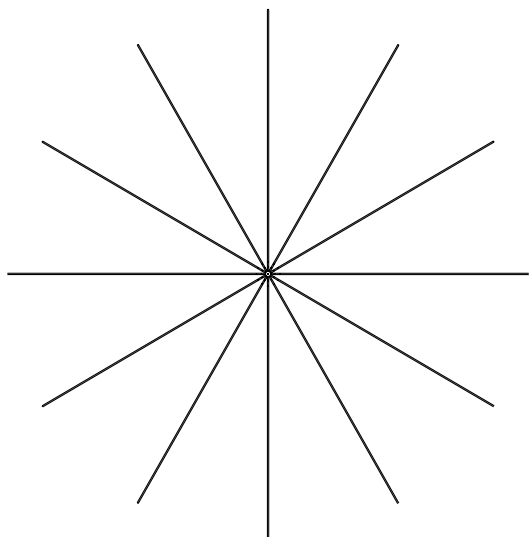
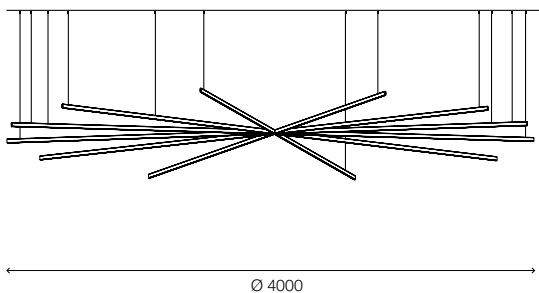
2:2

colour

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black



starry sky

star-shaped chandelier

$\varnothing = 4000$ mm
Star with a various number of “rays”, incl. cable suspension , power feed with screw contact and cable
Standard: the luminaire modules are locked into place on the lower side of the track, plus luminaires and control gear
48 V DC, 12.5 A

rays



7



8



9



10



11



12

colour

- alumatt
- white
- black

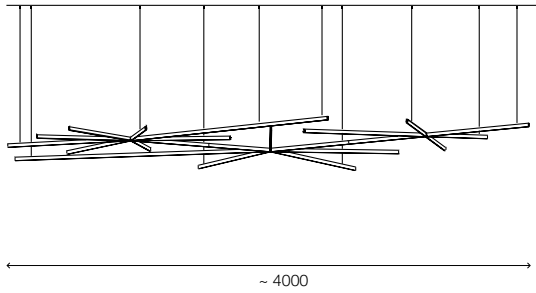
- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

- alumatt
- white
- black

**starry sky**

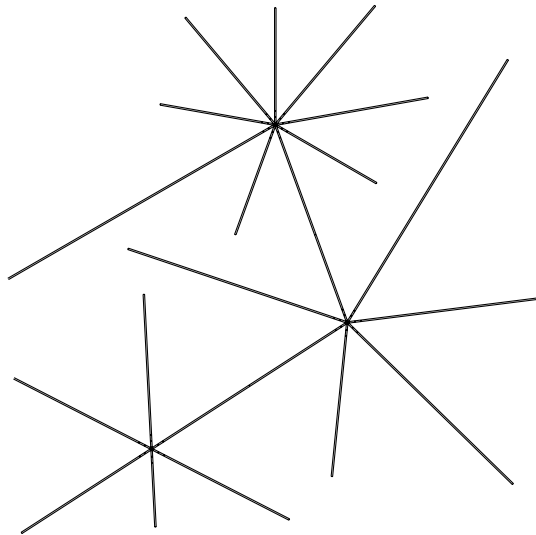
star-shaped project-related luminaire

Ø = 4000 mm

Star with a various number of "rays", incl. cable suspension, power feed with screw contact and cable

Standard: the luminaire modules are locked into place on the lower side of the track, plus luminaires and control gear

48 V DC, 12.5 A






rays



6 + 7 + 9

colour

-  alumatt
-  white
-  black

Starry Sky can be configured to create a variety of fascinating structures. Star-shaped connectors are available for 5-12 rays. Track lengths can be ordered as required. We are glad to help you achieve your design ideas. Simply send a sketch of your design to info@buschfeld.de

luminaires 48 V

Sense System luminaires

index



ninety-five S



ninety-five side S

wall48

pend48

ceiling48

in48

mono48

see page

light sources

69

70

72 - 73

72 - 73



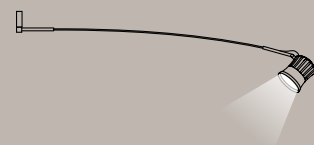
fifty S



fifty XS



fifty side S



fifty side L

wall48

pend48

ceiling48

in48

mono48

see page

light sources

78

79

80

81

86 - 87

86 - 87

86 - 87

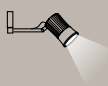
86 - 87



thirty-five S



thirty-five XS



thirty-five side S



thirty-five side L

wall48

pend48

ceiling48

in48

mono48

see page

light sources

92

93

94

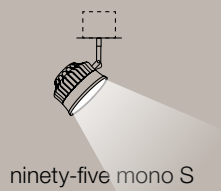
95

99

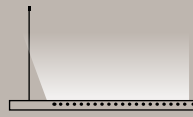
99

99

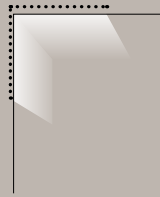
99



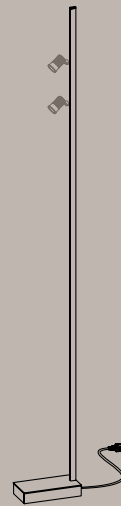
ninety-five mono S



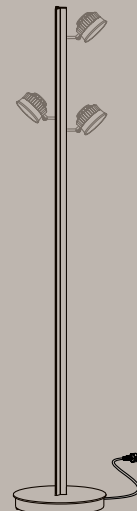
led line



led strip



steel 48



tri48 floor

71

101

102|103

106|107

105

72-73

wall track
pendant track
ceiling track
recessed track
individual luminaire
see page
light sources



fifty mono S



fifty mono L



fifty fix L

82

83

85

86-87

86-87

86-87

wall track
pendant track
ceiling track
recessed track
individual luminaire
see page
light sources



thirty-five mono S



thirty-five mono L



thirty-five fix L

96

97

98

99

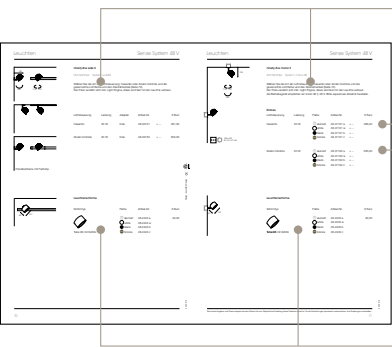
99

99

wall track
pendant track
ceiling track
recessed track
individual luminaire
see page
light sources

ninety-five

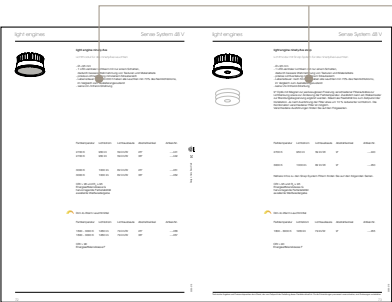
planning and ordering



Luminaires
application (spot or downlight)
length of luminaire
adapter alignment (e.g. Side 90° for Wall48)

Lighting control
Casambi
Xicato controls

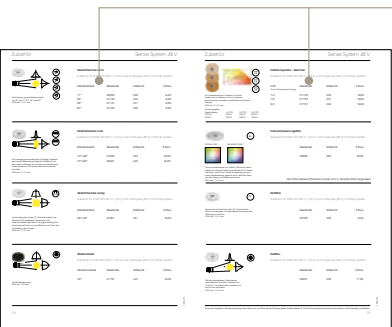
Shades
For our luminaires we offer a range of shades.
These can be selected and ordered as accessories.



Light Engines
beam angle (9° with Snap, 25° or 36°)
colour temperature (2700 K or 3000 K)
Dim-To-Warm light source



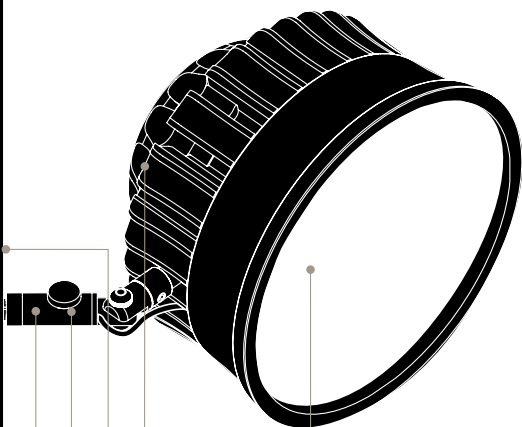
The light engines are housed within the luminaires.
see page 72



Accessories
Snap filter only for 9° light engines
see page 72

ninety-five

example of how to order



Light Engine
beam angle /
colour temperature

9° / Snap 2700 K / CRI 95	440
25° / 2700 K / CRI 95	441
36° / 2700 K / CRI 95	442
9° / Snap 3000 K / CRI 95	450
25° / 3000 K / CRI 95	451
36° / 3000 K / CRI 95	452

Luminaires
lighting control

Casambi	1
Xicato Controls	2

adapter

hide	5
mono	3

length of luminaire

S, 60 mm	1
----------	---

adapter alignment

0°, flexible	1
90°, side, flexible	2

name of luminaire

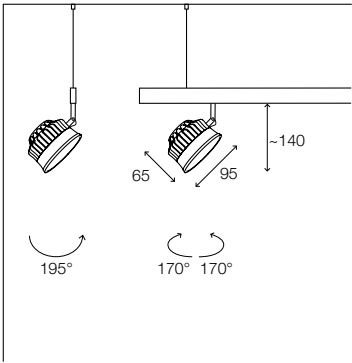
Thirty-Five	1
Fifty	2
Ninety-Five	3

48 volts

48-31151-441



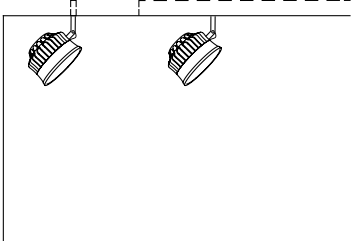
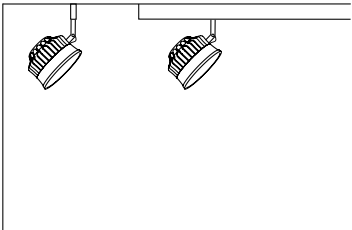
Luminaire Ninety-Five with a Tri48 Floor



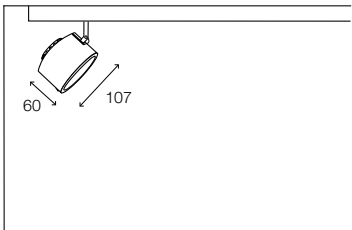
ninety-five S

directional spotlight system: pend48, ceiling48, in48, rondo48, tri48, steel48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see pages 72). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	20 W	hide	48-31151	+ ...
Xicato Controls	20 W	hide	48-31152	+ ...



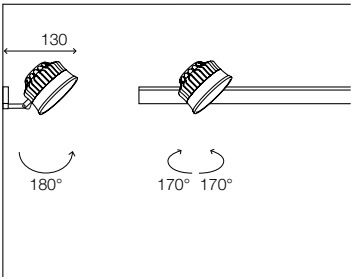
shades

type of shade



Tube 95 with slit

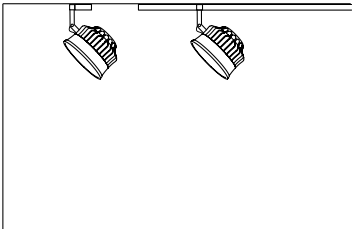
colour	article no.
alumatt	48-2443 a
white	48-2443 w
black	48-2443 b
bronze	48-2443 c



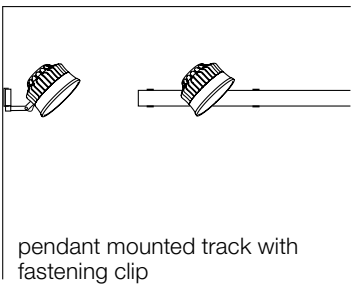
ninety-five side S

directional spotlight system: wall 48

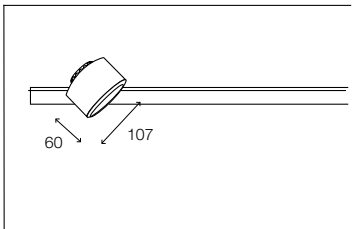
Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see pages 72). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	20 W	hide	48-32151	+ ...
Xicato Controls	20 W	hide	48-32152	+ ...



pendant mounted track with fastening clip



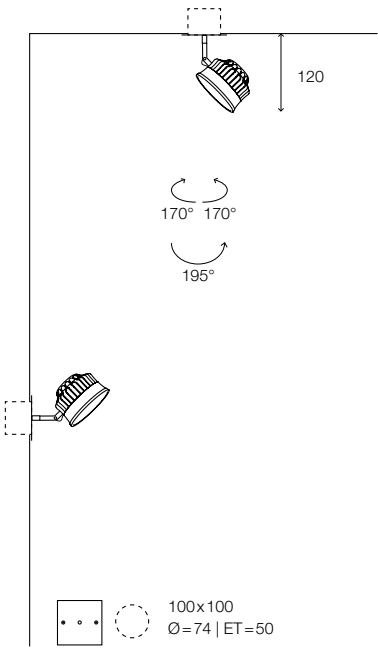
shades

type of shade



Tube 95 with slit

colour	article no.
alumatt	48-2443 a
white	48-2443 w
black	48-2443 b
bronze	48-2443 c



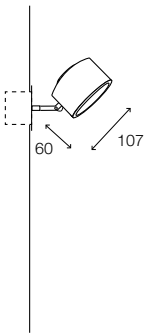
ninety-five mono S

directional spotlight system: mono48


Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see pages 72). The price quoted includes the light engine, which is housed inside the luminaire. For Power supply we recommend tronic 90 | 48 V. Please order separately.

for recessed mounting

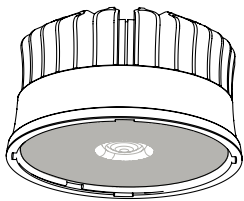
lighting control	wattage	colour	article no
Casambi	20 W	alumatt	48-31131 a + ...
		white	48-31131 w + ...
		black	48-31131 b + ...
		bronze	48-31131 c + ...
Xicato Controls	20 W	alumatt	48-31132 a + ...
		white	48-31132 w + ...
		black	48-31132 b + ...
		bronze	48-31132 c + ...



shade

type of shade	colour	article no.
	alumatt	48-2443 a
	white	48-2443 w
	black	48-2443 b
	bronze	48-2443 c

Tube 95 with slit



light engine ninety-five

luminaire module for the entire ninety-five range

- Ø = 95 mm
- single source LED with single shadow to enhance the perception of textures and materials
- precise light distribution with very little spill
- after 50,000 h, all luminaires have at least 70% of their rated luminous flux, compared to the state of delivery
- no UV/infrared radiation

colour temperature	flux	luminous efficiency	beam angle	article no.
2700 K	950 lm	59 lm/W	25°	...-441
2700 K	950 lm	59 lm/W	36°	...-442
3000 K	1000 lm	62 lm/W	25°	...-451
3000 K	1000 lm	62 lm/W	36°	...-452

CRI > 95 and R₉ ≥ 95
energy efficiency class G
excellent colour stability
excellent white colour rendering



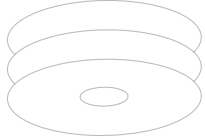
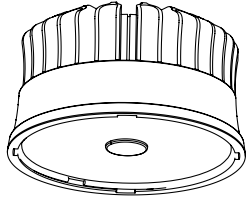
Dim-to-Warm light source

colour temperature	flux	luminous efficiency	beam angle	article no.
1800 - 3000 K	1280 lm	79 lm/W	25°	...-456
1800 - 3000 K	1280 lm	79 lm/W	36°	...-457

CRI > 90
energy efficiency class F



Design: Hans Buschfeld



light engine ninety-five snap

luminaire module equipped with Snap System for the entire ninety-five range

- Ø = 95 mm
- single source LED with single shadow to enhance the perception of textures and materials
- precise light distribution with very little spill
- after 50,000 h, all luminaires have at least 70% of their rated luminous flux, compared to the state of delivery
- no UV/infrared radiation

9° optics with a magnet enables a wide range of filters to be attached to the luminaire without tools to adjust the beam angle or colour temperature. A honeycomb louvre can also be applied to enhance glare control. Maximum flexibility prior to installation. Depending on the filter applied, the luminous flux may be reduced by up to 10 %. Different combinations of filters can be applied.

Further information on Snap system filters can be found on the following pages.

colour temperature	flux	luminous efficiency	beam angle	article no.
2700 K	950 lm	59 lm/W	9°	...-440
3000 K	1000 lm	62 lm/W	9°	...-450

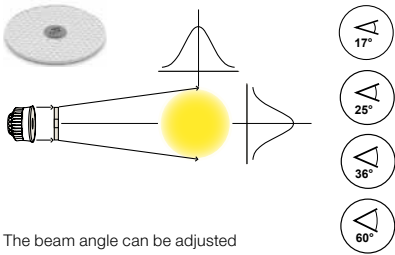
CRI > 95 and $R_9 \geq 95$
energy efficiency class G
excellent colour stability
excellent white colour rendering



Dim-to-Warm light source

colour temperature	flux	luminous efficiency	beam angle	article no.
1800 - 3000 K	1280 lm	79 lm/W	9°	...-455

CRI > 90
energy efficiency class F

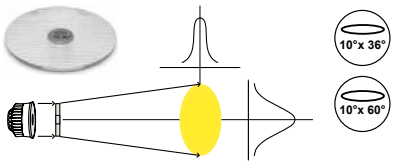


The beam angle can be adjusted from 10° to 17°, 25°, 36° or 60°. Ø 84 mm, T=3.1 mm

beam angle circular

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

beam angle	neadcode	article no.
17°	03265	439
25°	01145	440
36°	01147	441
60°	01149	442

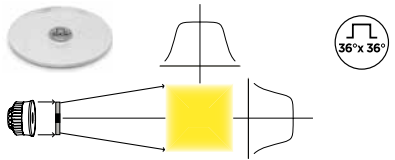


For the creation of asymmetric light beams, in particular for the illumination of linear objects. Given the oval shape of the light beam from just one light source per exhibit, fewer luminaires are required. Ø 84 mm, T=3.1 mm

beam angle oval

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

beam angle	neadcode	article no.
10° x 36°	01595	444
10° x 60°	03261	445

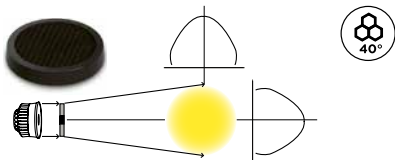


The circular shape of the 10° light beam is modified to generate a rectangular shaped beam: for square light fields on walls and floors. Uniform spread of light across the designated surface. No light fade along the edges. Ø 84 mm, T=3.1 mm

beam angle rectangular

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

beam angle	neadcode	article no.
36° x 36°	01597	451

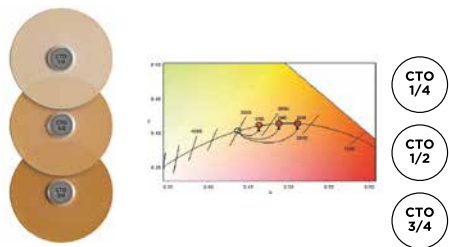


For glare control Ø 84 mm, T=9 mm

honeycomb louver

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

cutoff angle	neadcode	article no.
40°	01151	447



For shifting the colour temperature to simulate dimmable warm white lighting conditions. Also on a temporary basis, for example on festive occasions.

Ø 84 mm, T=3.1 mm

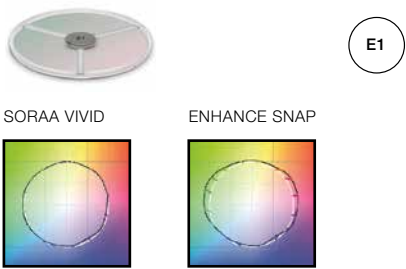
Effect achieved:

Initial colour temp.	1/4 CTO	1/2 CTO	3/4 CTO
2700 K	2450 K	2200 K	2000 K
3000 K	2700 K	2400 K	2200 K

shifting colour temperature

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

CTO	neadcode	article no.
Colour Temperature Orange		
1/4	01153	430
1/2	01155	431
3/4	01157	432



Filter for enhanced colour quality. Increases the vibrance of warm colours (red, orange and pink) and green. Ideal for applications where different colours need to be rendered perfectly. Underscores the richness of colours.

Ø 84 mm, T=3.1 mm

colour enhancement filter

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

neadcode	article no.
03283	450



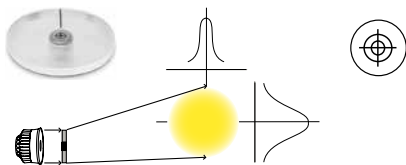
For application with coloured foil or dichroic filters to generate special atmospheres or effects.

Ø 84 mm, T=3.1 mm

transparent filter

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

neadcode	article no.
02185	448



Using two rotatable filter discs, the filter can change the beam spread from 0° to 20° without changing the colour temperature or the beam shape.

Ø 84 mm, T=3.1 mm

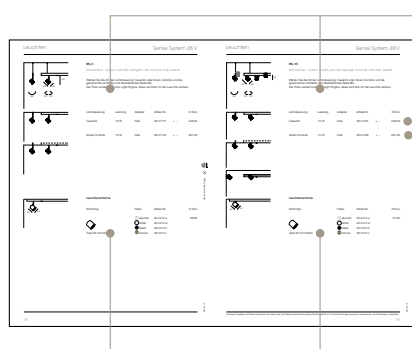
filter disc

accessories for VIVID LED AR111 (12 V) and ninety-five (48 V) Snap System

neadcode	article no.
03257	449

fifty

planning and ordering



Luminaires

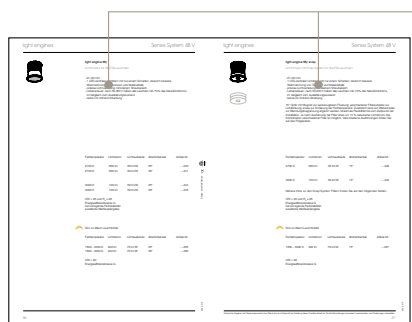
application (spot, downlight, luminaire for lighting pictures, or individual luminaires) length of luminaire
adapter alignment (e.g. Side 90° for Wall48)

Lighting control

Casambi
Xicato controls

Shades

For our luminaires we offer a range of shades.
These can be selected and ordered as accessories.



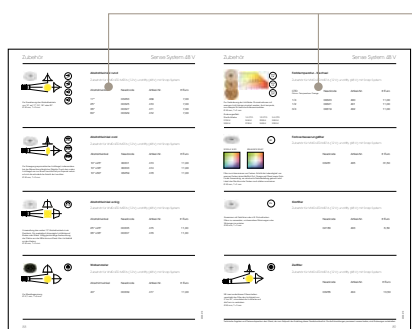
Light Engines

beam angle (15° with snap, 25° or 36°)
colour temperature (2700 K or 3000 K)
Dim-To-Warm light source

NEW

The light engines are housed within the luminaires.

see page 86

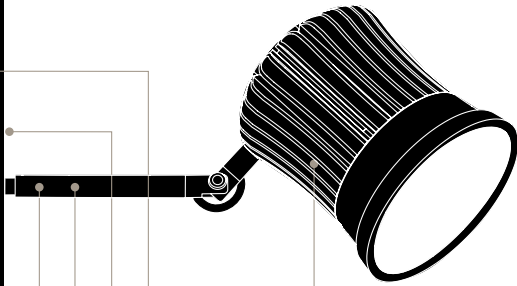


Accessories

snap filter only for 15° light engines

see page 88

example of how to order



Light Engine
beam angle /
colour temperature

15° / Snap 2700 K / CRI 95	429
25° / 2700 K / CRI 95	430
36° / 2700 K / CRI 95	431

15° / Snap 3000 K / CRI 95	433
25° / 3000 K / CRI 95	434
36° / 3000 K / CRI 95	435

Luminaires
lighting control

Casambi	1
Xicato Controls	2

adapter

hide	5
mono	3

length of luminaire

XS, 35 mm	2
S, 60 mm	1
L, 500 mm	3
L, 1000 mm	6

adapter alignment

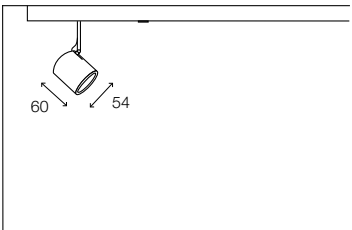
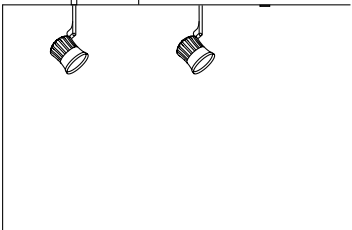
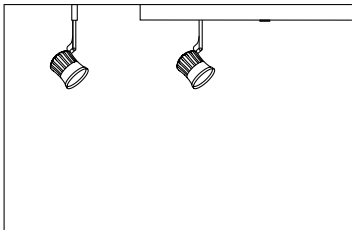
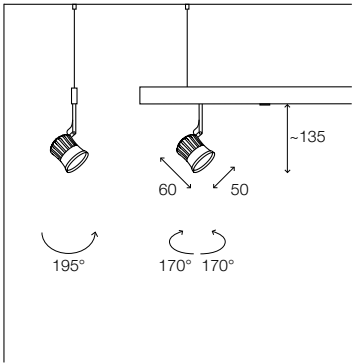
0°, fix	0
0°, flexible	1
90°, side, flexible	2

name of luminaire

Thirty-Five	1
Fifty	2
Ninety-Five	3

48 volts

48-21152-431



fifty S

directional spotlight system: pend48, ceiling48, in48, rondo48, tri48, steel48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire.

lighting control	wattage	adapter	article no.	
Casambi	15 W	hide	48-21151	+ ...
Xicato Controls	15 W	hide	48-21152	+ ...

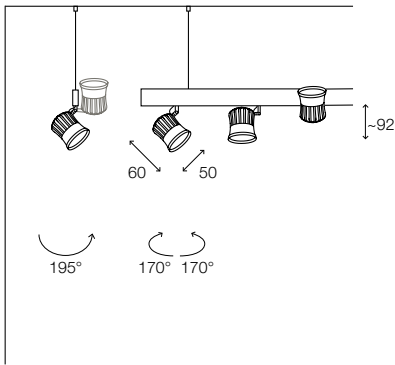
shades

type of shade



Tube 50 with slit

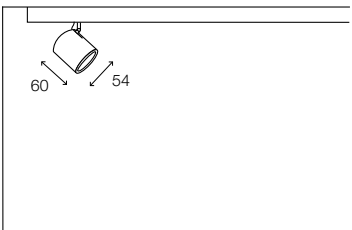
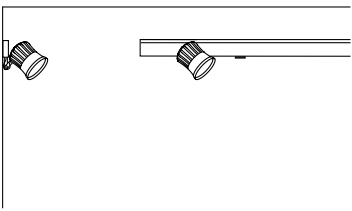
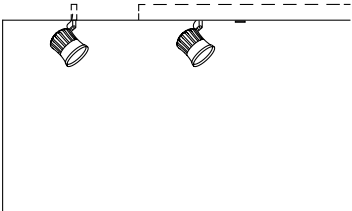
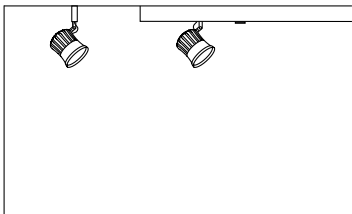
colour	article no.
alumatt	48-2412 a
white	48-2412 w
black	48-2412 b
bronze	48-2412 c



fifty XS






directional spotlight system: wall48, pend48, ceiling48, in48, rondo48, tri48, steel48

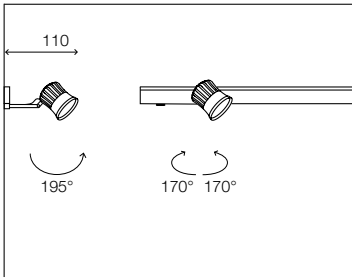
Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	15 W	hide	48-21251	+ ...
Xicato Controls	15 W	hide	48-21252	+ ...

shades

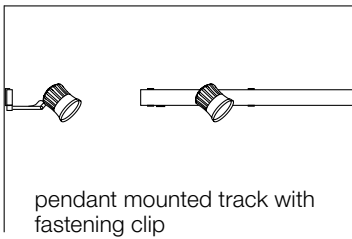
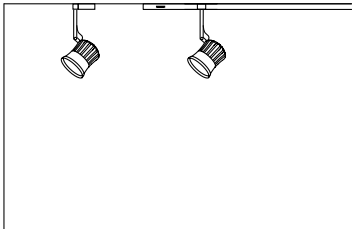
type of shade	colour	article no.
 Tube 50 with slit	 alumatt	48-2412 a
	 white	48-2412 w
	 black	48-2412 b
	 bronze	48-2412 c



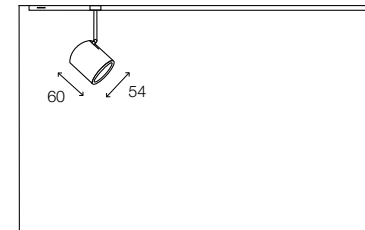
fifty side S

directional spotlight system: wall 48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	15 W	hide	48-22151	+ ...
Xicato Controls	15 W	hide	48-22152	+ ...



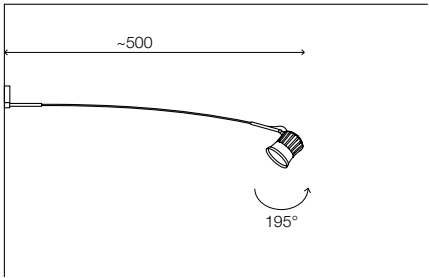
shades

type of shade



Tube 50 with slit

colour	article no.
alumatt	48-2412 a
white	48-2412 w
black	48-2412 b
bronze	48-2412 c

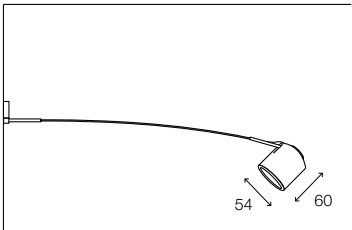


fifty side L

wall-mounted luminaire system: wall48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire.

lighting control	wattage	adapter	article no.	
Casambi	15 W	hide	48-22351	+ ...
Xicato Controls	15 W	hide	48-22352	+ ...



shades

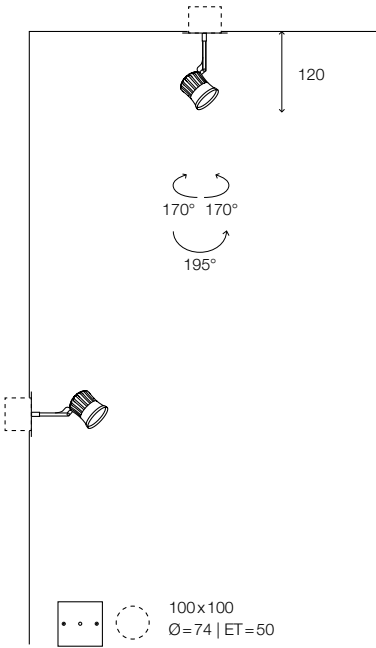
type of shade



Tube 50 with slit

colour article no.

-  alumatt 48-2412 a
-  white 48-2412 w
-  black 48-2412 b
-  bronze 48-2412 c



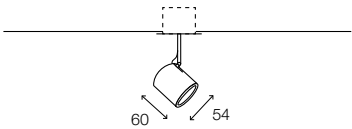
fifty mono S

directional spotlight system: mono48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire. For Power supply we recommend tronic 90 | 48 V. Please order separately.

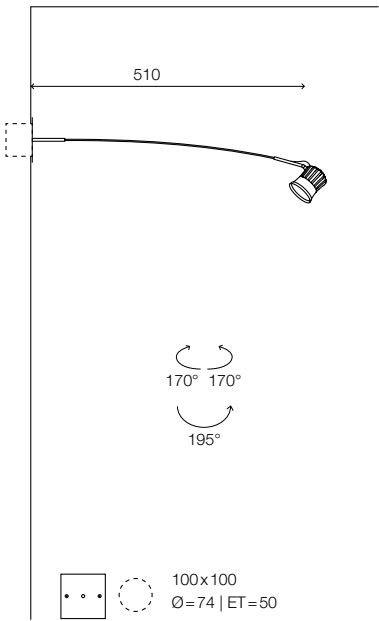
for recessed mounting

lighting control	wattage	colour	article no
Casambi	15 W	alumatt	48-21131 a + ...
		white	48-21131 w + ...
		black	48-21131 b + ...
		bronze	48-21131 c + ...
Xicato Controls	15 W	alumatt	48-21132 a + ...
		white	48-21132 w + ...
		black	48-21132 b + ...
		bronze	48-21132 c + ...



shades

type of shade	colour	article no.
 Tube 50 with slit	alumatt	48-2412 a
	white	48-2412 w
	black	48-2412 b
	bronze	48-2412 c











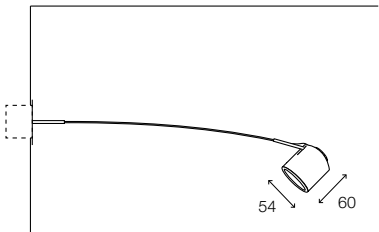
fifty mono L

wall-mounted luminaire system: mono48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire. For Power supply we recommend tronic 90 | 48 V. Please order separately.

for recessed mounting

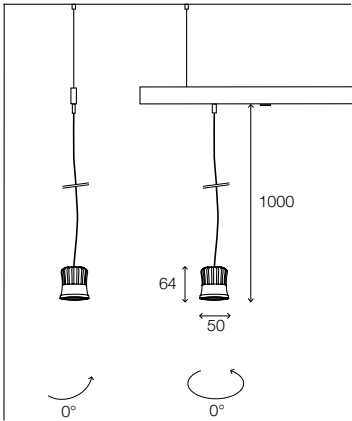
lighting control	wattage	colour	article no
Casambi	15 W	 alumatt	48-21331 a + ...
		 white	48-21331 w + ...
		 black	48-21331 b + ...
		 bronze	48-21331 c + ...
Xicato Controls	15 W	 alumatt	48-21332 a + ...
		 white	48-21332 w + ...
		 black	48-21332 b + ...
		 bronze	48-21332 c + ...



shades

type of shade	colour	article no.
	 alumatt	48-2412 a
	 white	48-2412 w
	 black	48-2412 b
	 bronze	48-2412 c

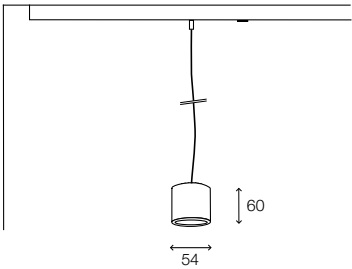
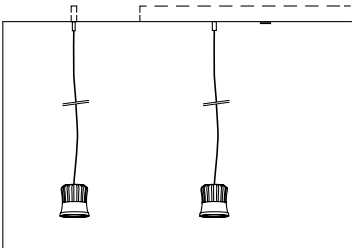
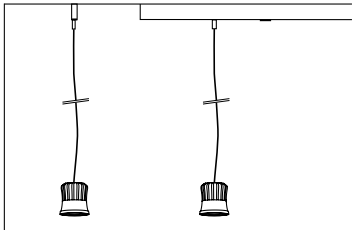




fifty fix L

downlight system: pend48, ceiling48, in48

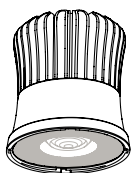
Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 86). The price quoted includes the light engine, which is housed inside the luminaire. Length of pendant luminaire can be shortened. Standard colour of textile cable is black. Custom lenglts and colours on request.



lighting control	wattage	adapter	article no.	
Casambi	15 W	hide	48-20651	+ ...
Xicato Controls	15 W	hide	48-20652	+ ...

shades

type of shade	colour	article no.
	alumatt	48-2416 a
	white	48-2416 w
	black	48-2416 b
	bronze	48-2416 c
Tube 50 without slit		



light engine fifty

luminaire module for the entire fifty range

- Ø=59 mm
- single source LED with single shadow to enhance the perception of textures and materials
- precise light distribution with very little spill
- after 50,000 h, all luminaires have at least 70% of their rated luminous flux, compared to the state of delivery
- no UV/infrared radiation

colour temperature	flux	luminous efficiency	beam angle	article no
2700 K	680 lm	56 lm/W	25°	...-430
2700 K	680 lm	56 lm/W	36°	...-431
3000 K	720 lm	59 lm/W	25°	...-434
3000 K	720 lm	59 lm/W	36°	...-435

CRI > 95 and $R_g \geq 95$
 energy efficiency class G
 excellent colour stability
 excellent white colour rendering



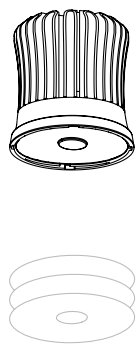
Dim-to-Warm light source

colour temperature	flux	luminous efficiency	beam angle	article no
1800 - 3000 K	922 lm	76 lm/W	25°	...-465
1800 - 3000 K	922 lm	76 lm/W	36°	...-466

CRI > 90
 energy efficiency class G



Design: buschfeld Design



light engine fifty snap

luminaire module with snap system for the entire fifty range

- Ø=59 mm
- single source LED with single shadow to enhance the perception of textures and materials
- precise light distribution with very little spill
- after 50,000 h, all luminaires have at least 70% of their rated luminous flux, compared to the state of delivery
- no UV/infrared radiation

15° optics with a magnet enables a wide range of filters to be attached to the luminaire without tools to adjust the beam angle or colour temperature. A honeycomb louvre can also be applied to enhance glare control. Maximum flexibility prior to installation. Depending on the filter applied, the luminous flux may be reduced by up to 10 %. Different combinations of filters can be applied. Further information on Snap System filters can be found on the following pages.

colour temperature	flux	luminous efficiency	beam angle	article no
2700 K	680 lm	56 lm/W	15°	...-429
3000 K	720 lm	59 lm/W	15°	...-433

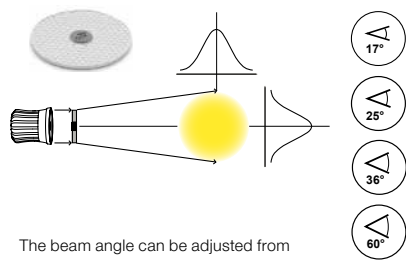
CRI > 95 and R₉ ≥ 95
energy efficiency class G
excellent colour stability
excellent white colour rendering



Dim-to-Warm light source

colour temperature	flux	luminous efficiency	beam angle	article no
1800 - 3000 K	922 lm	76 lm/W	15°	...-467

CRI > 90
energy efficiency class G

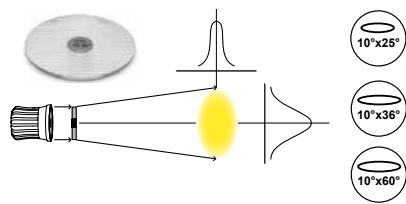


The beam angle can be adjusted from 10° to 17°, 25°, 36° or 60°.
Ø 50 mm, T=2 mm

beam angle circular

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

beam angle	neadcode	article no.
17°	03263	409
25°	00325	410
36°	00327	411
60°	00329	412

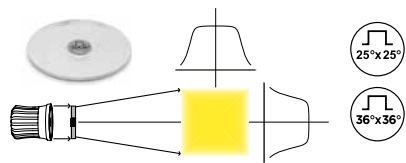


For the creation of asymmetric light beams, in particular for the illumination of linear objects. Given the oval shape of the light beam from just one light source per exhibit, fewer luminaires are required.
Ø 50 mm, T=2 mm

beam angle oval

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

beam angle	neadcode	article no.
10° x 25°	00331	413
10° x 36°	00333	414
10° x 60°	03259	418

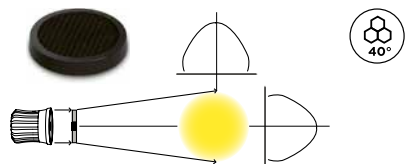


The circular shape of the 10° light beam is modified to generate a rectangular shaped beam: for square light fields on walls and floors. Uniform spread of light across the designated surface. No fading light along the edges.
Ø 50 mm, T=2 mm

beam angle rectangular

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

beam angle	neadcode	article no.
36° x 36°	00337	416

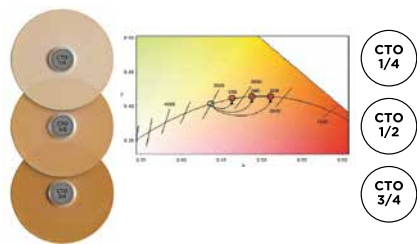


For glare control
Ø 51,1 mm, T=9 mm

honeycomb louvre

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

cutoff angle	neadcode	article no.
40°	00339	417



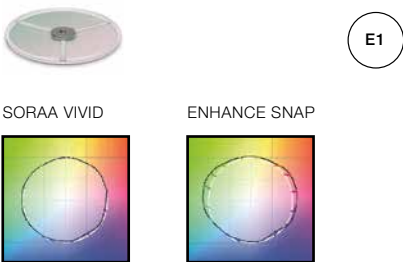
For shifting the colour temperature to simulate dimmable warm white lighting conditions. Also on a temporary basis, for example on festive occasions.
Ø 50 mm, T=2 mm

Effect achieved:			
Initial colour temp.	1/4 CTO	1/2 CTO	3/4 CTO
2700 K	2450 K	2200 K	2000 K
3000 K	2700 K	2400 K	2200 K

shifting colour temperature

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

CTO	neadcode	article no.
Colour Temperature Orange		
1/4	00323	400
1/2	00321	401
3/4	00319	402



Filter for enhanced colour quality. Increases the vibrance of warm colours (red, orange and pink) and green. Ideal for applications where different colours need to be rendered perfectly. Underscores the richness of colours.
Ø 50 mm, T=2 mm

colour enhancement filter

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

neadcode	article no.
03281	405

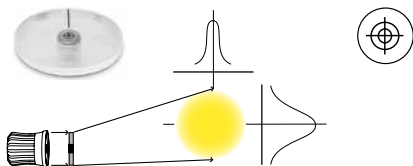


For application with coloured foil or dichroic filters to generate special atmospheres or effects.
Ø 50 mm, T=2 mm

transparent filter

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

neadcode	article no.
02183	403



Using two rotatable filter discs, the filter can change the beam spread from 0° to 20° without changing the colour temperature or the beam shape.
Ø 50 mm, T=2 mm

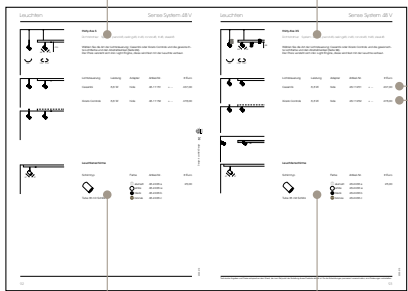
filter disc

accessories for VIVID LED MR16 (12 V) and fifty (48 V) with Snap System

neadcode	article no.
03255	404

thirty-five

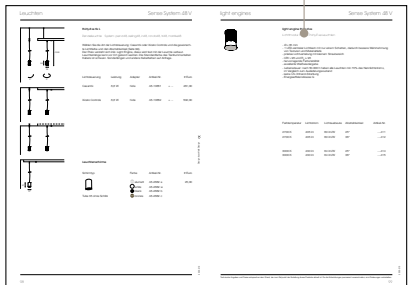
planning and ordering



Luminaires
 application (spot, luminaire for lighting pictures, or individual luminaires)
 length of luminaire
 adapter alignment (e.g. Side 90° for Wall48)

Lighting control
 Casambi
 Xicato controls

Shades
 For our luminaires we offer a range of shades.
 These can be selected and ordered as accessories.

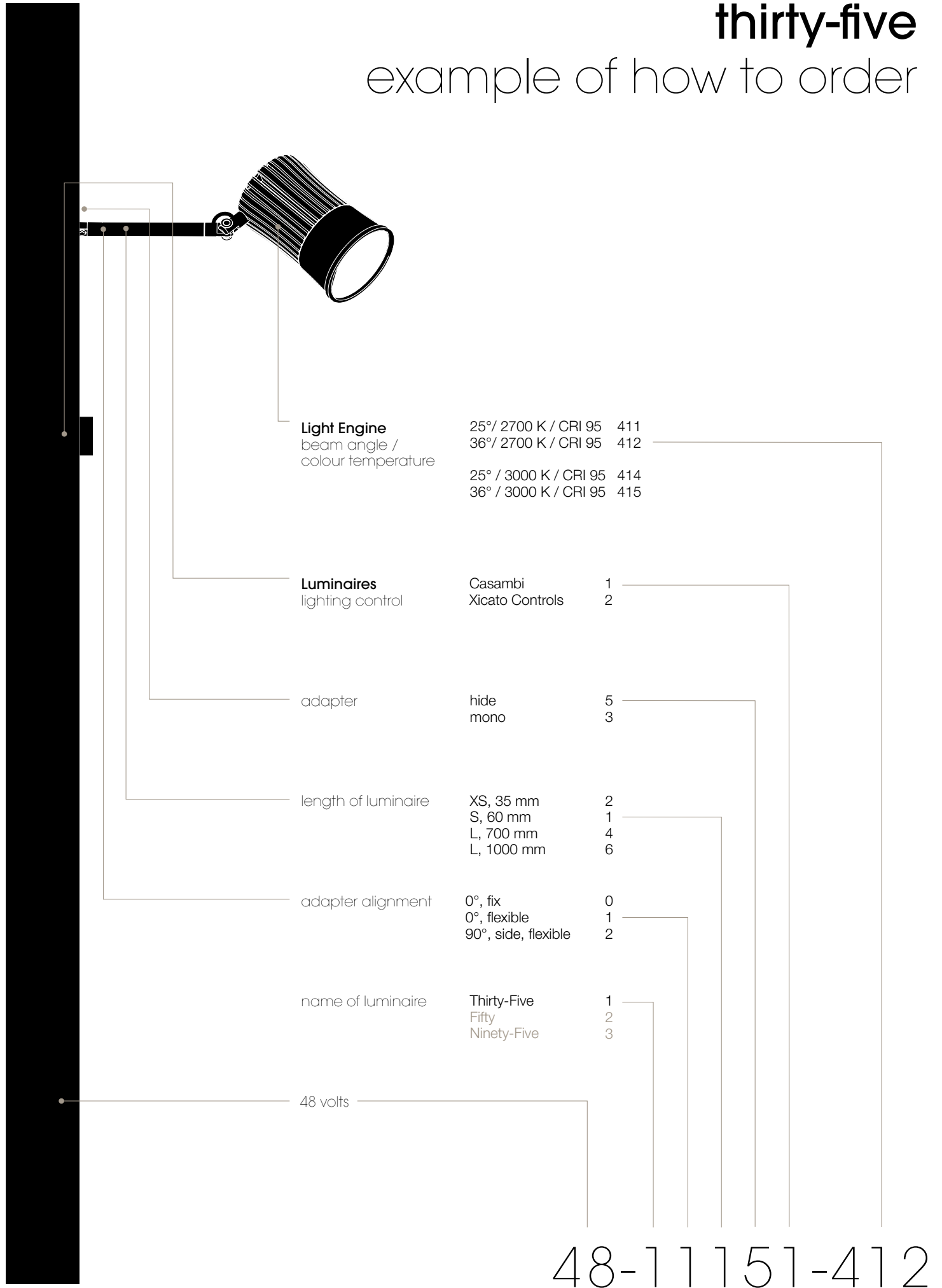


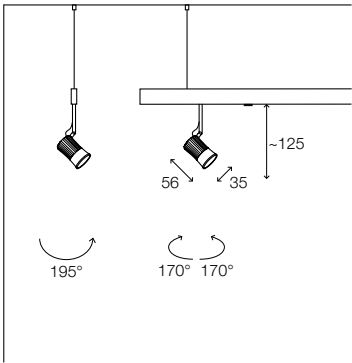
Light Engines
 Beam angle (25° or 36°)
 Colour temperature (2700 K or 3000 K)
 The light engines are housed within the luminaires.

see page 99

thirty-five

example of how to order

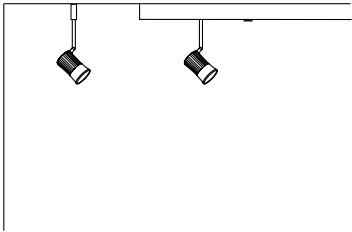




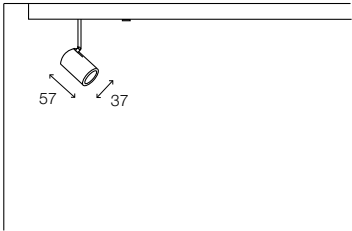
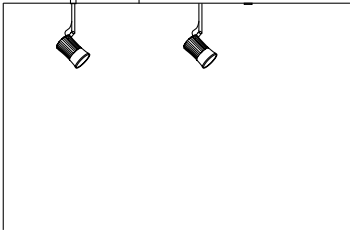
thirty-five S

directional spotlight system: pend48, ceiling48, in48, rondo48, tri48, steel48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	8,8 W	hide	48-11151	+ ...
Xicato Controls	8,8 W	hide	48-11152	+ ...



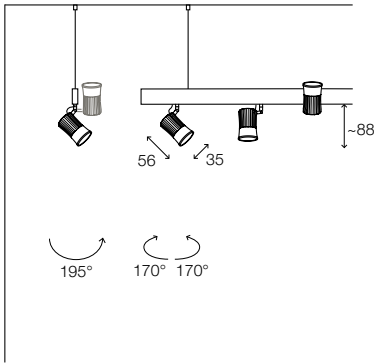
shades

type of shade



Tube 35 with slit

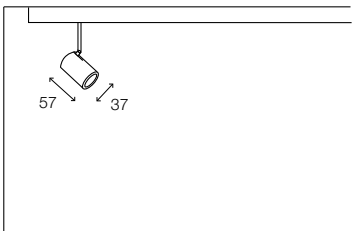
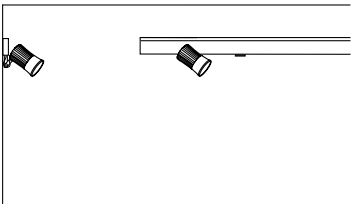
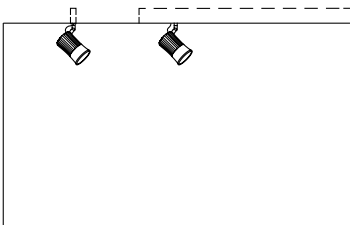
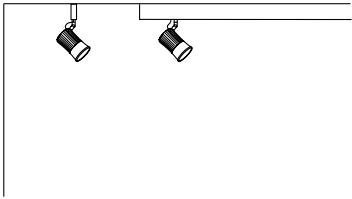
colour	article no.
alumatt	48-2436 a
white	48-2436 w
black	48-2436 b
bronze	48-2436 c



thirty-five XS






directional spotlight system: wall48, pend48, ceiling48, in48, rondo48, tri48, steel48

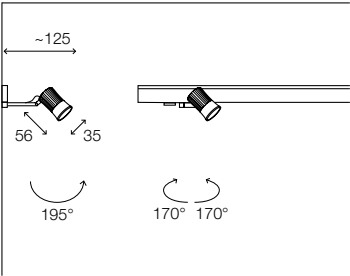
Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire.



lighting control	wattage	adapter	article no.	
Casambi	8,8 W	hide	48-11251	+ ...
Xicato Controls	8,8 W	hide	48-11252	+ ...

shades

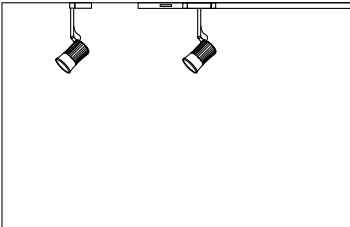
type of shade	colour	article no.
 Tube 35 with slit	 alumatt	48-2436 a
	 white	48-2436 w
	 black	48-2436 b
	 bronze	48-2436 c



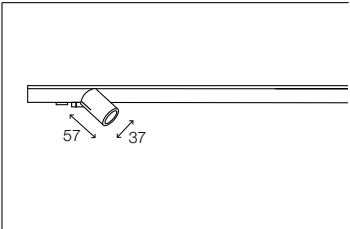
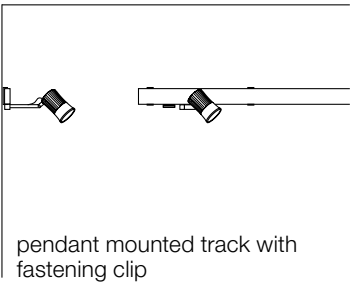
thirty-five side S

directional spotlight system: wall 48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99)
The price quoted includes the light engine, which is housed inside the luminaire.

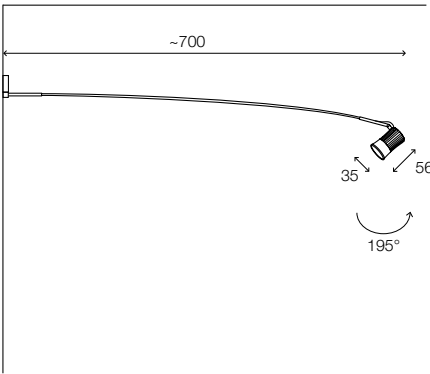


lighting control	wattage	adapter	article no.	
Casambi	8,8 W	hide	48-12151	+ ...
Xicato Controls	8,8 W	hide	48-12152	+ ...



shades

type of shade	colour	article no.
 Tube 35 with slit	 alumatt	48-2436 a
	 white	48-2436 w
	 black	48-2436 b
	 bronze	48-2436 c

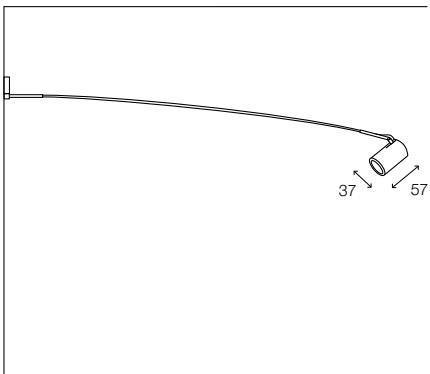


thirty-five side L

luminaire for lighting pictures system: wall 48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire.

lighting control	wattage	adapter	article no.	
Casambi	8,8 W	hide	48-12451	+ ...
Xicato Controls	8,8 W	hide	48-12452	+ ...



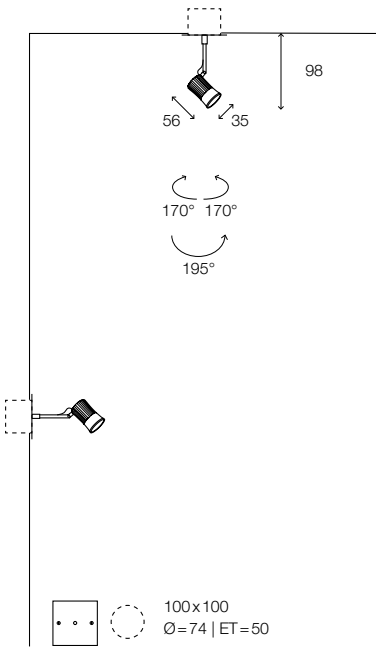
shades

type of shade



Tube 35 with slit

colour	article no.
alumatt	48-2436 a
white	48-2436 w
black	48-2436 b
bronze	48-2436 c











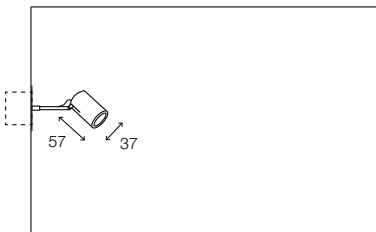
thirty-five mono S

directional spotlight system: mono48






Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire. For Power supply we recommend tronic 90 | 48 V. Please order separately.

for recessed mounting

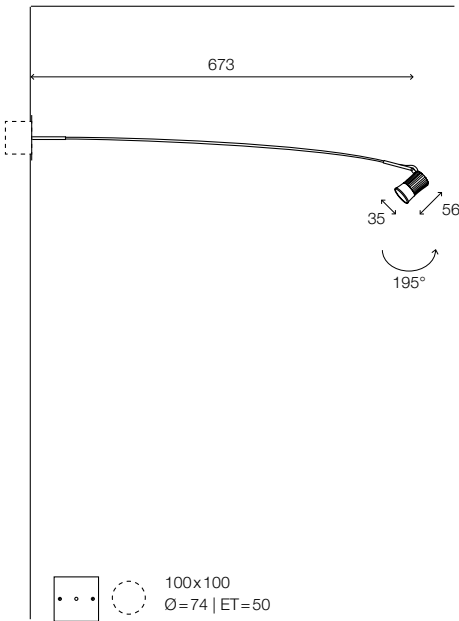
lighting control	wattage	colour	article no
Casambi	8,8 W	 alumatt	48-11131 a + ...
		 white	48-11131 w + ...
		 black	48-11131 b + ...
		 bronze	48-11131 c + ...
Xicato Controls	8,8 W	 alumatt	48-11132 a + ...
		 white	48-11132 w + ...
		 black	48-11132 b + ...
		 bronze	48-11132 c + ...



shades

type of shade	colour	article no.
	 alumatt	48-2436 a
	 white	48-2436 w
	 black	48-2436 b
	 bronze	48-2436 c

Tube 35 with slit



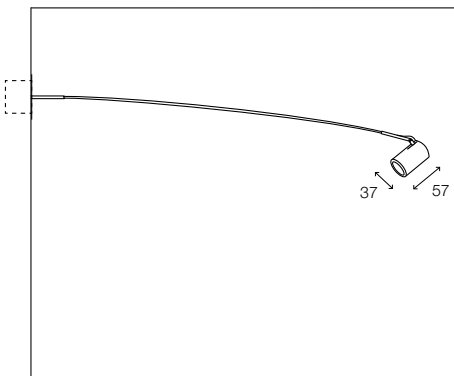
thirty-five mono L

wall-mounted luminaire system: mono48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire. For Power supply we recommend tronic 90 | 48 V. Please order separately.

for recessed mounting

lighting control	wattage	colour	article no
Casambi	8,8 W	alumatt	48-11431 a + ...
		white	48-11431 w + ...
		black	48-11431 b + ...
		bronze	48-11431 c + ...
Xicato Controls	8,8 W	alumatt	48-11432 a + ...
		white	48-11432 w + ...
		black	48-11432 b + ...
		bronze	48-11432 c + ...



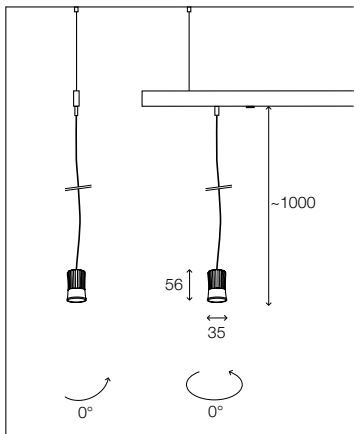
shades

type of shade



Tube 35 with slit

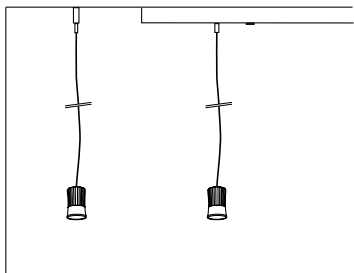
colour	article no.
alumatt	48-2436 a
white	48-2436 w
black	48-2436 b
bronze	48-2436 c



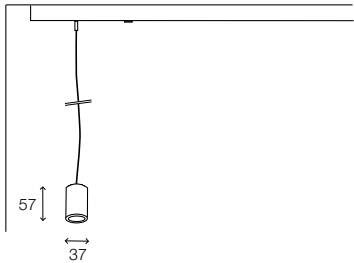
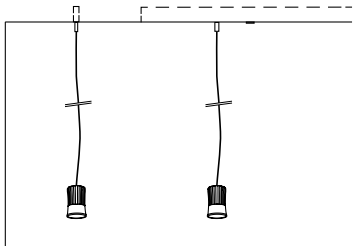
thirty-five fix L

directional spotlight system: pend48, ceiling48, in48, rondo48, tri48, marble48

Select how you would like to control the lighting system: Casambi or Xicato controls, and define the colour temperature and the beam angle required (see page 99). The price quoted includes the light engine, which is housed inside the luminaire. Length of pendant luminaire can be shortened. Standard colour of textile cable is black. Custom lengths and colours on request.



lighting control	wattage	adapter	article no.	
Casambi	8,8 W	hide	48-10651	+ ...
Xicato Controls	8,8 W	hide	48-10652	+ ...



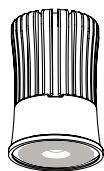
shades

type of shade



Tube 35 without slit

colour	article no.
alumatt	48-2662 a
white	48-2662 w
black	48-2662 b
bronze	48-2662 c



light engine thirty-five

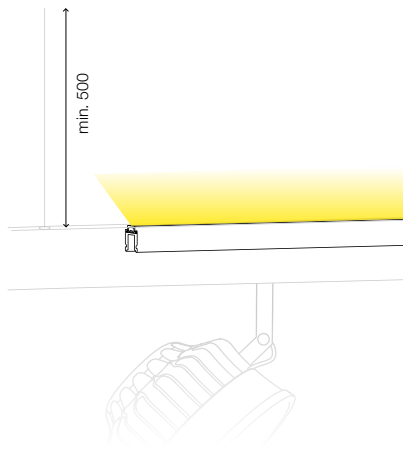
luminaire module for the entire thirty-five range

- Ø= 35 mm
- single source LED with single shadow to enhance the perception of textures and materials
- precise light distribution with very little spill
- CRI > 95 and R_g ≥ 95
- excellent colour stability
- excellent white colour rendering
- after 50,000 h, all luminaires have at least 70% of their rated luminous flux, compared to the state of delivery
- no UV/infrared radiation
- energy efficiency class G

colour temperature	flux	luminous efficiency	beam angle	article no.
2700 K	405 lm	60 lm/W	25°	...-411
2700 K	405 lm	60 lm/W	36°	...-412
3000 K	430 lm	64 lm/W	25°	...-414
3000 K	430 lm	64 lm/W	36°	...-415



Sense System In48,
the track extended using a 90° angle connector
to connect to Pend48 with Ninety-Five S
luminaire and Led Line uplight



led line uplight

project-related luminaire system: pend48, rondo48

Led Line is an uplight module and available in different standard dimensions. It is custom made for projects and pre-installed in our pendant mounted track, or in the Rondo ring-shaped chandelier. Led Line functions as an uplight and is only for application in the upper channel.

In order to be able to make you a detailed offer, we would ask you to send us a sketch indicating the layout of the track and to let us know if you prefer a visible or a concealed power supply unit (48 V DC).

You can reach us by mail at info@buschfeld.de

- operating voltage: 48 V DC
- Nichia LED
- Energy efficiency class: F
- beam angle 120°
- lifespan: > 60.000 h

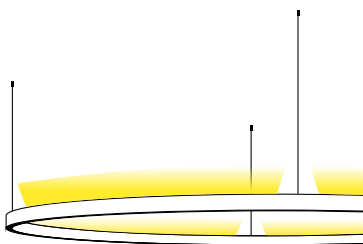
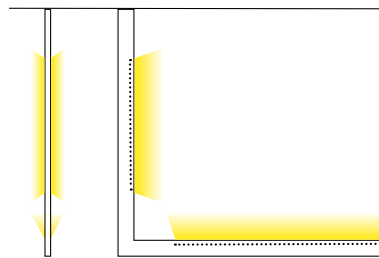
4 options for straight lines

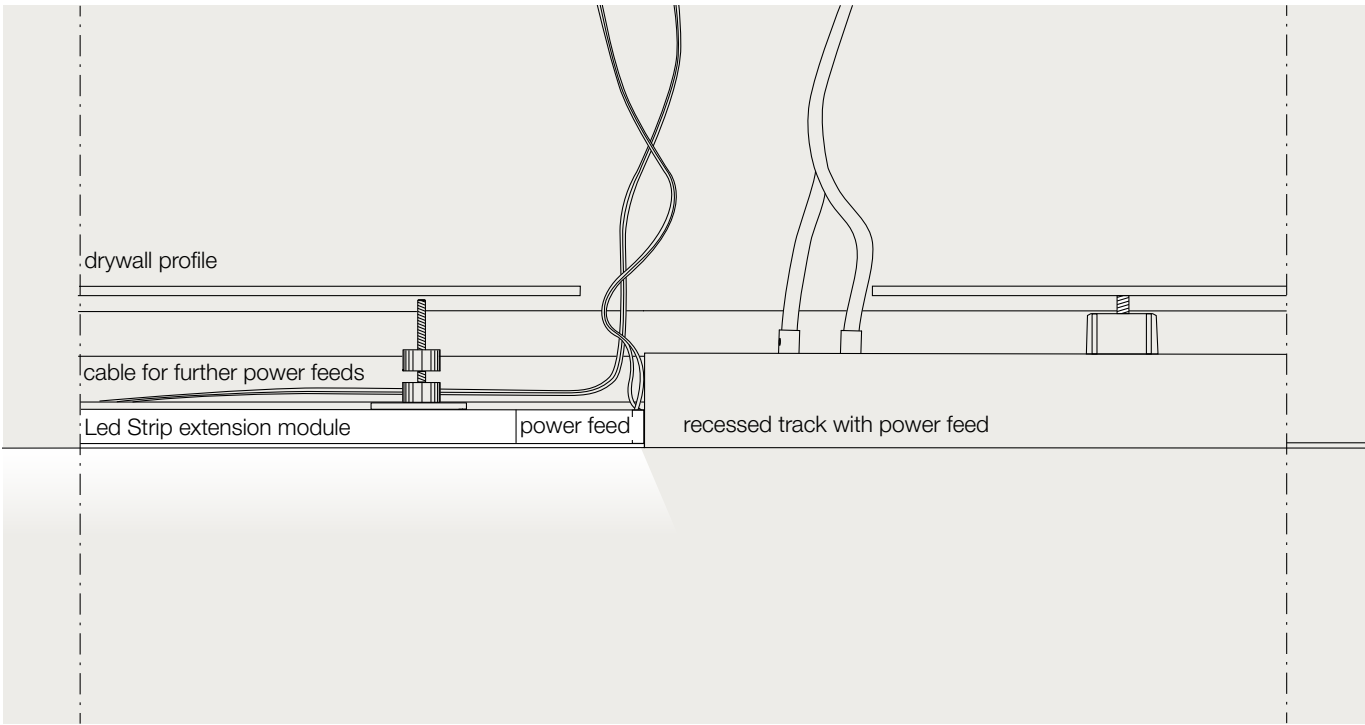
- colour temperature: 2200 K
- power: ~ 29 W/m
- flux: 3315 lm/m
- luminous efficacy: 115 lm/W
- CRI: > 80

- colour temperature: 2700 K
- power: ~ 38 W/m
- flux: 3000 lm/m
- luminous efficacy: 79 lm/W
- CRI: > 90 and $R_g > 50$

- colour temperature: 3000 K
- power: ~ 38 W/m
- flux: 3000 lm/m
- luminous efficacy: 79 lm/W
- CRI: > 90 and $R_g > 50$

- colour temperature: 4000 K
- power: ~ 29 W/m
- flux: 3750 lm/m
- luminous efficacy: 130 lm/W
- CRI: > 90 and $R_g > 50$





led strip

project-related luminaire system: in48

Led Strips are extremely slimline linear LED modules of a defined length that can be interconnected without tools using the connectors provided giving rise to clear, clean lines of light.

The Led Strip modules are inserted into the drywall profile in the recessed system (see building components on page 46) and, depending on the design, can alternate with the sections of recessed track.

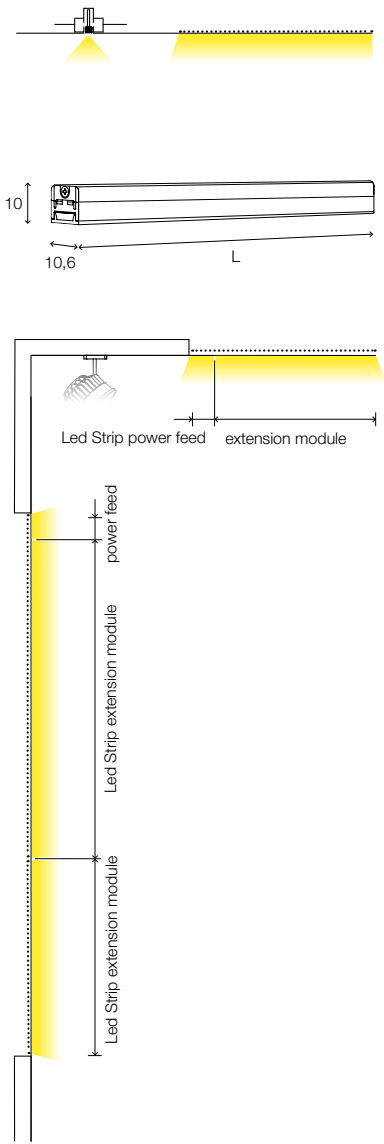
- operating voltage: 24 V DC, dimmable
- lifespan: 50,000 hours
- Energy efficiency class: G
- colour temperature: 3000 K
- luminous efficacy: 74 lm/W
- protection rating: IP20
- beam angle: 120°
- CRI: $R_a > 90$
- 55 W max. per module combination, then new power feed required!
- supplied with mounting accessories and magnetic clips for latching into place

led strip power feed

length	power	article no.
38 mm	1 W	99050

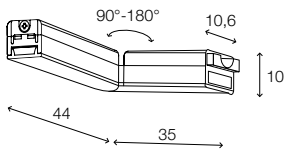
led strip extension module, without power feed

length	flux/ power	article no.
560 mm	533 lm/ 7 W	99055
839 mm	800 lm/ 11W	99085
1118 mm	1058 lm/ 15 W	99105

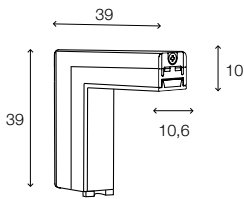




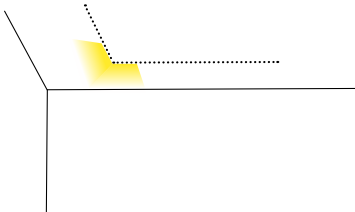
led strip connectors



room corner



angle connector



corner of room, 90° - 180°

length	power	article no.
44 x 35 mm	1 W	99010



angle connector 90°, on the inside, horizontal-vertical

length	power	article no.
39 x 39 mm	1 W	99020

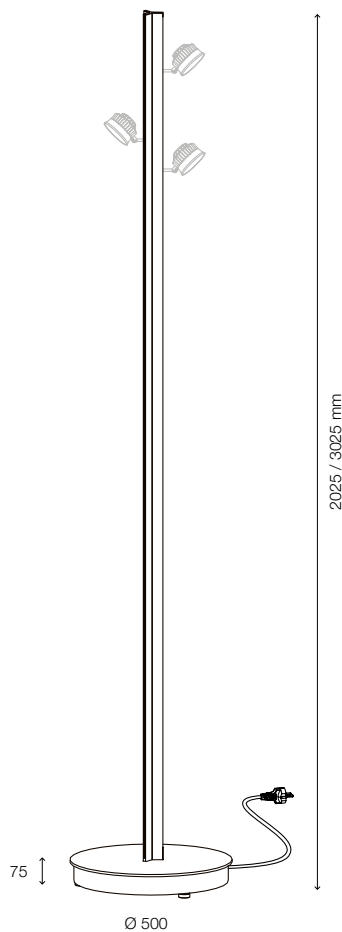


angle connector 90°, on the outside, horizontal-vertical

length	power	article no.
39 x 39 mm	1 W	99022



Sense System Tri48 Floor
with Ninety-Five S luminaire











tri48 floor

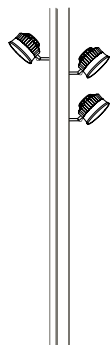
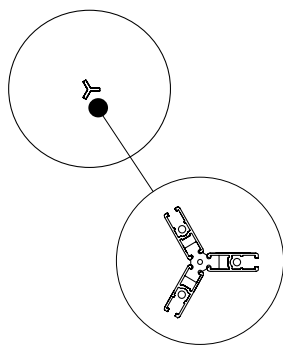
free-standing luminaire

PRI 230 V | SEC 48 V
power supply unit in base
steel base round Ø 500 mm, base hight 75 mm, weight ~ 25kg
colours of base and pole can be different
cable with safety plug, 2.5 m, black

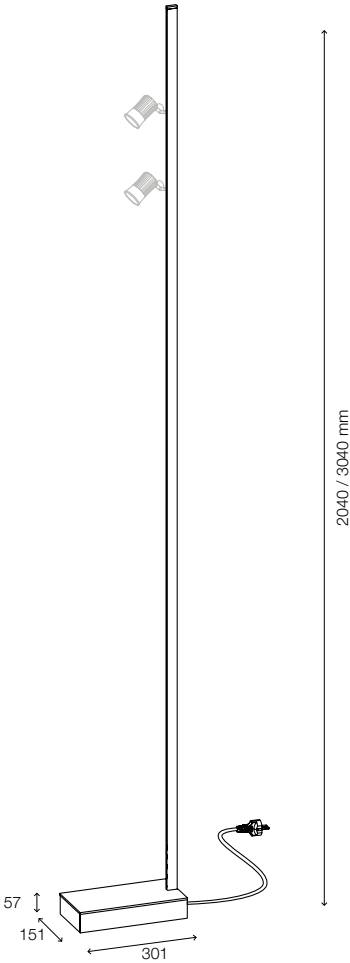
plus luminaires, e.g. Ninety-Five S, Fifty S, Fifty XS, Thirty-Five S and Thirty-Five XS

	colour of track	article no..
height of luminaire 2025 mm	 alumatt	48-97255 a
	 white	48-97255 w
	 black	48-97255 b
	 bronze	48-97255 c
height of luminaire 3025 mm	 alumatt	48-97355 a
	 white	48-97355 w
	 black	48-97355 b
	 bronze	48-97355 c
accessories		
foot switch black		8404 b

top view



number of luminaires per free-standing luminaire	
Ninety-Five S	1 - 12
Fifty S, Fifty XS	1 - 16
Thirty-Five S, Thirty-Five XS	1 - 28











steel48 floor

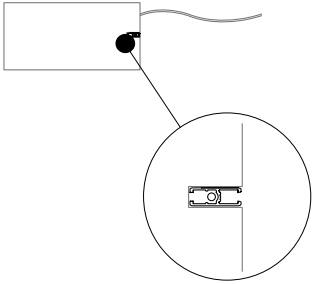
free-standing luminaire

PRI 230 V | SEC 48 V
power supply unit in base
steel base 495 mm x 315 mm x 70 mm, 20 kg
colours of base and pole can be different
cable with safety plug, 2.5 m, black

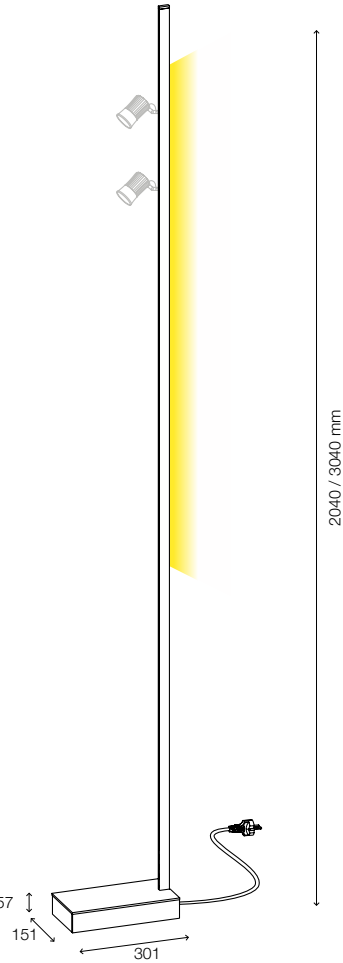
plus luminaires, e.g. Ninety-Five S, Fifty S, Fifty XS, Thirty-Five S and Thirty-Five XS

	colour of track	article no.
height of luminaire 2040 mm	 alumatt	48-97205 a
	 white	48-97205 w
	 black	48-97205 b
	 bronze	48-97205 c
height of luminaire 3040 mm	 alumatt	48-97305 a
	 white	48-97305 w
	 black	48-97305 b
	 bronze	48-97305 c
accessories		
foot switch black		8404 b

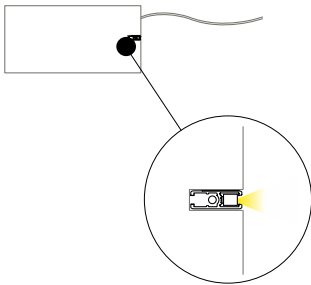
top view with track



number of luminaires per free-standing luminaire	
Ninety-Five S	1 - 7
Fifty S, Fifty XS	1 - 9
Thirty-Five S, Thirty-Five XS	1 - 15



top view with track and Led Line



steel48 floor

free-standing luminaire

PRI 230 V | SEC 48 V
power supply unit in base
steel base 495 mm x 315 mm x 70 mm, 20 kg
colours of base and pole can be different
cable with safety plug, 2.5 m, black

plus luminaires, e.g. Ninety-Five S, Fifty S, Fifty XS, Thirty-Five S and Thirty-Five XS

Led Line 1600 mm
Nichia LED built into the luminaire shaft
power: ~ 38 W/m
operating voltage: 48 V DC
luminous flux: 3000 lm/m
luminous efficacy: 79 lm/W
CRI: > 90 und R_g > 50
two colour temperatures are available

	colour of track	article no.
height of luminaire 2040 mm	alumatt	48-97205 a + ...
	white	48-97205 w + ...
	black	48-97205 b + ...
	bronze	48-97205 c + ...
height of luminaire 3040 mm	alumatt	48-97305 a + ...
	white	48-97305 w + ...
	black	48-97305 b + ...
	bronze	48-97305 c + ...

Led Line	Colour temperature	article no.+...
colour temperature	2700 K	... -27
	3000 K	...-30

accessories	
foot switch black	8404 b

number of luminaires per free-standing luminaire	
Ninety-Five S	1 - 4
Fifty S, Fifty XS	1 - 5
Thirty-Five S, Thirty-Five XS	1 - 9

Creative Collection

buschfeld is continuously sounding out ideas, materials and technologies and taking them to new heights:

Creative Collection combines unusual luminous objects with products that go far beyond simply providing lighting.

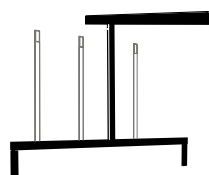
flames is all I see

3D chandelier with original luminaire "My new Flame" by Ingo Maurer

Ø = 3380 mm, H = 2340 mm
 chandelier with "My new Flame", original luminaires designed by Ingo Maurer GmbH
 and adapted for Buschfeld track,
 48 V DC, LED: 0,6 W, 2700 K, CRI 80; 50,000 h; EEC A+,
 including cable suspensions and control gear
 not dimmable, without lighting control

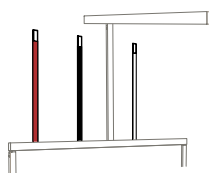



colour of track

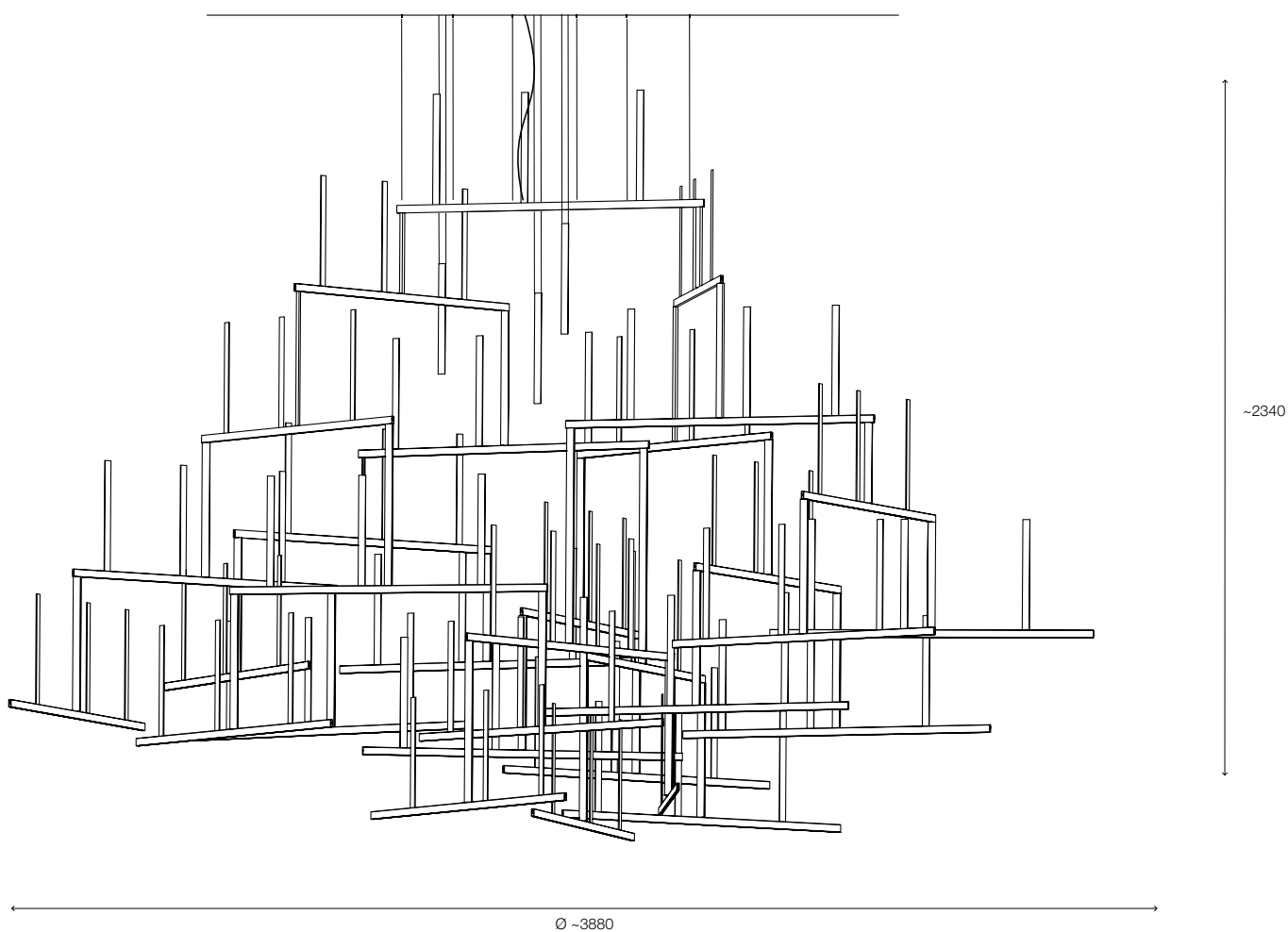


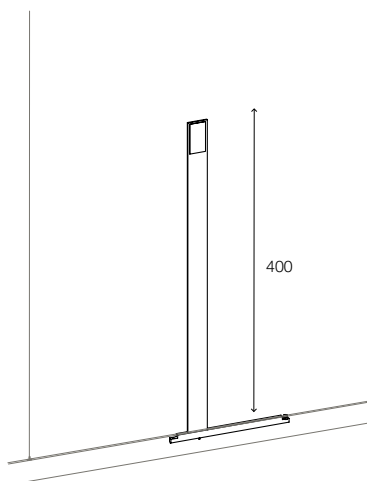
-  alumatt
-  white
-  black

colour Flames



-  white
-  black
-  red



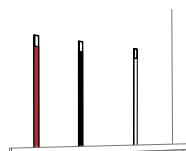


my new flame

single Flame element with hide adapter for pend48*

H = 400 mm

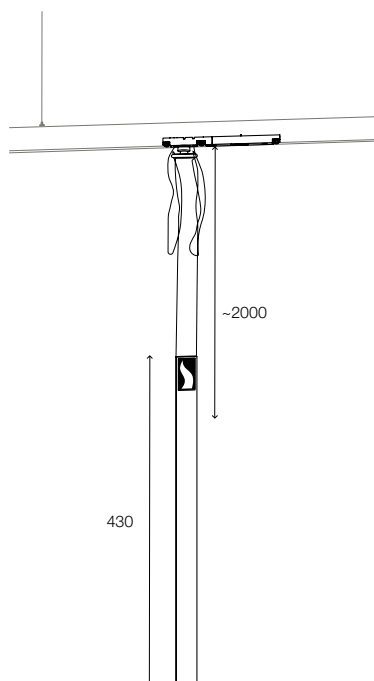
original Flame element designed by Ingo Maurer GmbH and adapted for application on Buschfeld track equipped with adapter hide, with 2 displays each with 128 built-in LED, 48 V DC, LED: 0,6 W, 2700 K, CRI 80; 50,000 h; EEC A+, not dimmable, without lighting control



colour Flames

- ☐ white
- ☐ black
- ☐ red

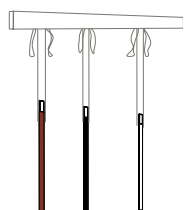
***NB:** For the free-standing version of "My New Flame" the pendant track with its inner conductor is turned upwards. Spots can therefore not simply be added without further adaption. We are happy to work with you on your project to develop potential combinations.



flying flame

single Flame element with hide adapter for pend48, ceiling48, in48

length of cable suspension 2000 mm, adjustable
original Flame element designed by Ingo Maurer GmbH and adapted for application on Buschfeld track equipped with adapter hide, with 2 displays each with 128 built-in LED, 48 V DC, LED: 0,6 W, 2700 K, CRI 80; 50.000 h; EEC A+, not dimmable, without lighting control



colour Flames

- ☐ white
- ☐ black
- ☐ red

Flight of birds

3D chandelier with original "Lucellino" designed by Ingo Maurer GmbH

L=3000 mm, W=750 mm, H=1100 mm

Original "Lucellino" by Ingo Maurer GmbH, adapted for application on Buschfeld track via adapter hide on/off

per "Lucellino" LED: 1.5 W; 2700 K; CRI 85; 15,000 h; EEC A+

not dimmable, without lighting control

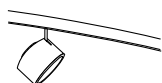
48 V DC




other spots (e.g. Ninety-Five S or Fifty S) are required for basic lighting

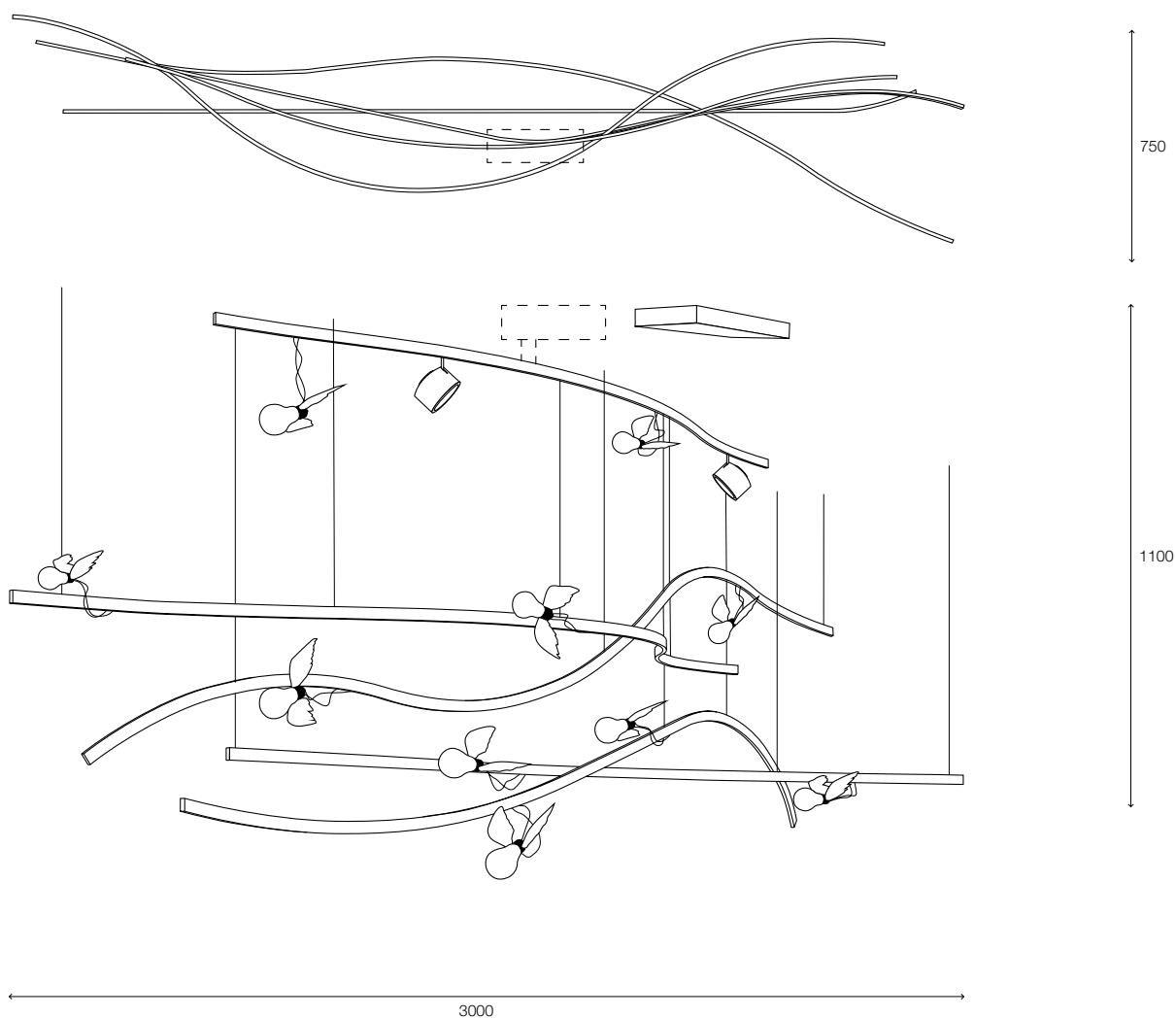
incl. cable suspension and control gear for visible or recessed mounting

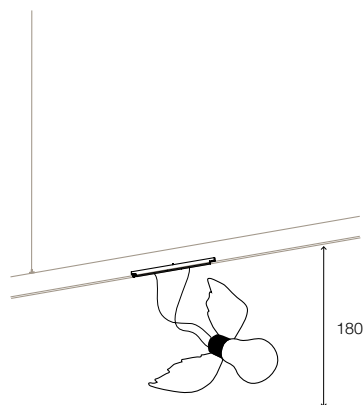


colour of tracks



-  alumatt
-  white
-  black

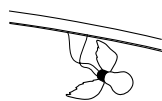




Lucellino for buschfeld

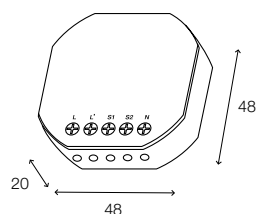
Luminaire "Lucellino" for pend48, ceiling48, in48, wall48

Original "Lucellino" by Ingo Maurer GmbH for the Flight of birds chandelier, or further creative lighting projects
each "Lucellino" is equipped with adapter hide on/off for application on Buschfeld 48 V DC track
per "Lucellino" LED: 1.5 W; 100 lm; 2700 K; CRI 85; 15,000 h; EEC A+
not dimmable, without lighting control



Casambi switching relay

controlled via Casambi



CASAMBI

- 2 functions:

1. The relay can meet the requirements of the Ecodesign Directive. It switches the operating device completely voltage-free in order to reduce the standby power loss in the sense of the ERP directive EU 2019/2020. Due to its high load, it is suitable - independently of our Sense system - for e.g. switching non-dimmable electrical devices on and off, suitable for loads up to 3000 VA - 13 A.
 2. Combined with a conventional push-button, the Casambi unit also offers the option of connecting 1 or 2 freely configurable push-buttons that can be used freely in the Casambi interface for luminaire / group / scene / relay etc.
- can be combined with all commercially available push-buttons (spring-back)
 - WTH 47.5 x 47.5 x 20 mm

article no.

97919

control gear 48 V

overview

design control gear

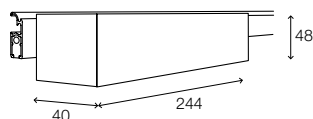
	article no.	wall48	ceiling48	pend48	in48
box wall48 90	48-90610	●			
bigbox wall48 150	48-90626	●			
bigbox wall48 320	48-90627	●			
box pend/ceiling48 90	48-90635		●	●	
bigbox pend/ceiling48 150	48-90636		●	●	
bigbox pend/ceiling48 320	48-90637		●	●	
Steel48 Floor					
Steel48 Floor Led Line					
Tri48 Floor					

concealed control gear

	article no.	wall48	ceiling48	pend48	in48
tronic48 90	48-90115	●	●	●	●
MW48 150	48-90143	●	●	●	●
MW48 320	48-90114	●	●	●	●
MW48 480	48-90196	●	●	●	●
MW48 600	48-90187	●	●	●	●

max. permitted system length	Casambi / Xicato Controls		
	Ninety-Five 20 W	Fifty 15 W	Thirty-Five 8,8 W
15 m	1 - 4	1 - 6	1 - 10
15 m	1 - 7	1 - 9	1 - 15
15 m	1 - 15	1 - 20	1 - 34
15 m	1 - 4	1 - 6	1 - 10
15 m	1 - 7	1 - 9	1 - 15
15 m	1 - 15	1 - 20	1 - 34
	1 - 7	1 - 9	1 - 15
	1 - 4	1 - 5	1 - 9
	1 - 12	1 - 16	1 - 28

max. permitted system length	Casambi / Xicato Controls		
	Ninety-Five 20 W	Fifty 15 W	Thirty-Five 8,8 W
15 m	1 - 4	1 - 6	1 - 10
15 m	1 - 7	1 - 9	1 - 15
15 m	1 - 15	1 - 20	1 - 34
15 m	1 - 24	1 - 32	1 - 54
15 m	1 - 30	1 - 40	1 - 70

**box wall48 | 90**

power supply unit system: wall48

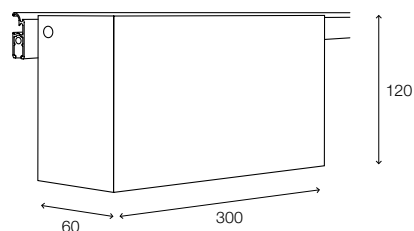
- PRI: 220-240 V AC | SEC: 48 V DC | 90 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 0.5 kg

- number of luminaires per control gear

Ninety-Five	(20 W)	1 - 4
Fifty	(15 W)	1 - 6
Thirty-Five	(8,8 W)	1 - 10

article no.

-  48-90610 a
-  48-90610 w
-  48-90610 b
-  48-90610 c

**bigbox wall48 | 150**

power supply unit system: wall48

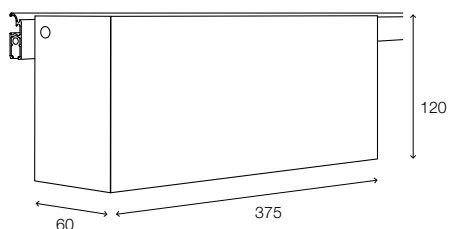
- PRI: 90-305 V AC or 127-431 V DC
- SEC: 48 V DC | 150 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- incl. 0.5 m connecting cable, transparent silver
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 2.2 kg

- number of luminaires per control gear

Ninety-Five	(20 W)	1 - 7
Fifty	(15 W)	1 - 9
Thirty-Five	(8,8 W)	1 - 15

article no.

-  48-90626 a
-  48-90626 w
-  48-90626 b
-  48-90626 c

**bigbox wall48 | 320**

power supply unit system: wall48

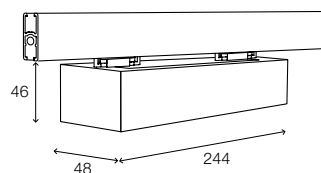
- PRI: 90-305 V AC or 127-431 V DC
- SEC: 48 V DC | 320 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- incl. 0.5 m connecting cable, transparent silver
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 3 kg

- number of luminaires per control gear

Ninety-Five	(20 W)	1 - 15
Fifty	(15 W)	1 - 20
Thirty-Five	(8,8 W)	1 - 34

article no.

-  48-90627 a
-  48-90627 w
-  48-90627 b
-  48-90627 c

**box pend/ceiling48 | 90**

power supply unit system: pend48, ceiling48

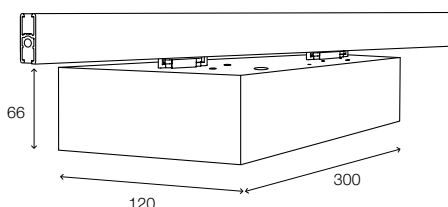
- PRI: 220 - 240 V AC | SEC: 48 V DC | 90 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- incl. 1.5 m connecting cable, transparent silver
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 0.5 kg

article no.

- 48-90635 a
- 48-90635 w
- 48-90635 b
- 48-90635 c

- number of luminaires per control gear

Ninety-Five	(20 W)	1 - 4
Fifty	(15 W)	1 - 6
Thirty-Five	(8,8 W)	1 - 10

**bigbox pend/ceiling48 | 150**

power supply unit system: pend48, ceiling48

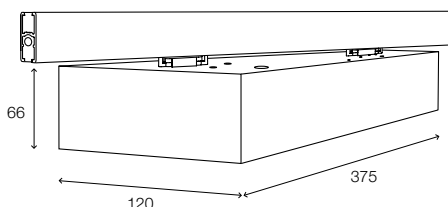
- PRI: 90-305 V AC or 127-431 V DC
- SEC: 48 V DC | 150 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- incl. 1.5 m connecting cable, transparent silver
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 2.2 kg

article no.

- 48-90636 a
- 48-90636 w
- 48-90636 b
- 48-90636 c

- number of luminaires per control gear

Ninety-Five	(20 W)	1 - 7
Fifty	(15 W)	1 - 9
Thirty-Five	(8,8 W)	1 - 15

**bigbox pend/ceiling48 | 320**

power supply unit system: pend48, ceiling48

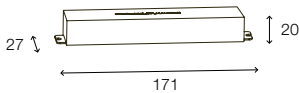
- PRI: 90-305 V AC or 127-431 V DC
- SEC: 48 V DC | 320 W
- power supply unit in a design housing
- with integral short circuit, overheating and overload protection
- incl. 1.5 m connecting cable, transparent silver
- 2 end caps
- concealed adapter feed included
- for system lengths of up to 15 m
- 3 kg

article no.

- 48-90637 a
- 48-90637 w
- 48-90637 b
- 48-90637 c

- number of luminaires per control gear

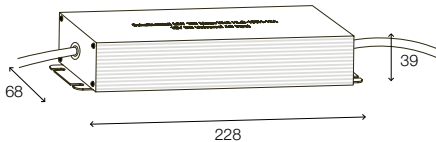
Ninety-Five	(20 W)	1 - 15
Fifty	(15 W)	1 - 20
Thirty-Five	(8,8 W)	1 - 34



tronic 90 | 48 V

power supply unit system: wall48, pend48, ceiling48, in48, rondo48

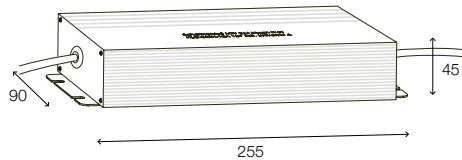
- PRI: 230 V | SEC: 48 V DC | 90 W
 - for recessed mounting
 - with integral short circuit, overheating and overload protection
 - for secondary track lengths of up to 15 m
 - LWH 171 x 27 x 20 mm
 - 0.35 kg
- article no.
- 48-90115
- number of luminaires per control gear
- | | | |
|-------------|---------|--------|
| Ninety-Five | (20 W) | 1 - 4 |
| Fifty | (15 W) | 1 - 6 |
| Thirty-Five | (8,8 W) | 1 - 10 |



MW 150 | 48 V

power supply unit system: wall48, pend48, ceiling48, in48, rondo48

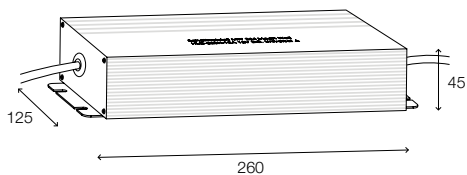
- PRI: 90-305 V AC or 127-431 V DC
 - SEC: 48 V DC | 150 W
 - for recessed mounting
 - with integral short circuit, overheating and overload protection
 - for secondary track lengths of up to 15 m
 - LWH 228 x 68 x 39 mm
 - 1.15 kg
- article no.
- 48-90143
- number of luminaires per control gear
- | | | |
|-------------|---------|--------|
| Ninety-Five | (20 W) | 1 - 7 |
| Fifty | (15 W) | 1 - 9 |
| Thirty-Five | (8,8 W) | 1 - 15 |



MW 320 | 48 V

power supply unit system: wall48, pend48, ceiling48, in48, rondo48

- PRI: 90-305 V AC or 127-431 V DC
 - SEC: 48 V DC | 320 W
 - for recessed mounting
 - with integral short circuit, overheating and overload protection
 - for secondary track lengths of up to 15 m
 - LWH 255 x 90 x 45 mm
 - 1.9 kg
- article no.
- 48-90114
- number of luminaires per control gear
- | | | |
|-------------|---------|--------|
| Ninety-Five | (20 W) | 1 - 15 |
| Fifty | (15 W) | 1 - 20 |
| Thirty-Five | (8,8 W) | 1 - 34 |



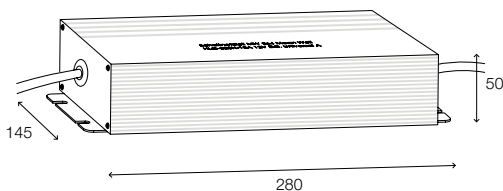
MW 480 | 48 V

power supply unit system: wall48, pend48, ceiling48, in48, rondo48

- PRI: 90-305 V AC or 127-431 V DC
 - SEC: 48 V DC | 480 W
 - for recessed mounting
 - with integral short circuit, overheating and overload protection
 - for secondary track lengths of up to 15 m
 - LWH 260x125x45 mm
 - 2.8 kg
-
- number of luminaires per control gear
 - Ninety-Five (20 W) 1 - 54
 - Fifty (15 W) 1 - 32
 - Thirty-Five (8,8 W) 1 - 24

article no.

48-90196



MW 600 | 48 V

power supply unit system: wall48, pend48, ceiling48, in48, rondo48

- PRI: 90-305 V AC or 127-431 V DC
 - SEC: 48 V DC | 600 W
 - for recessed mounting
 - with integral short circuit, overheating and overload protection
 - for secondary track lengths of up to 15 m
 - LWH 280x145x50 mm
 - 4 kg
-
- number of luminaires per control gear
 - Ninety-Five (20 W) 1 - 30
 - Fifty (15 W) 1 - 40
 - Thirty-Five (8,8 W) 1 - 70

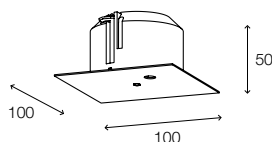
article no.

48-90187






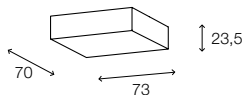
connecting cables

transparent, silver supplied with 4 cable end sleeves	article no.
2x2,5 mm ² , running metre	90525
2x4 mm ² , running metre	90520
2x6 mm ² , running metre	90500






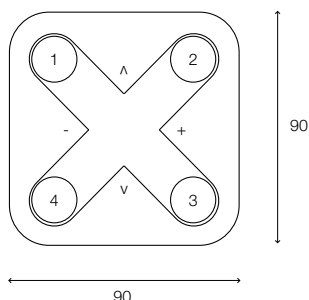
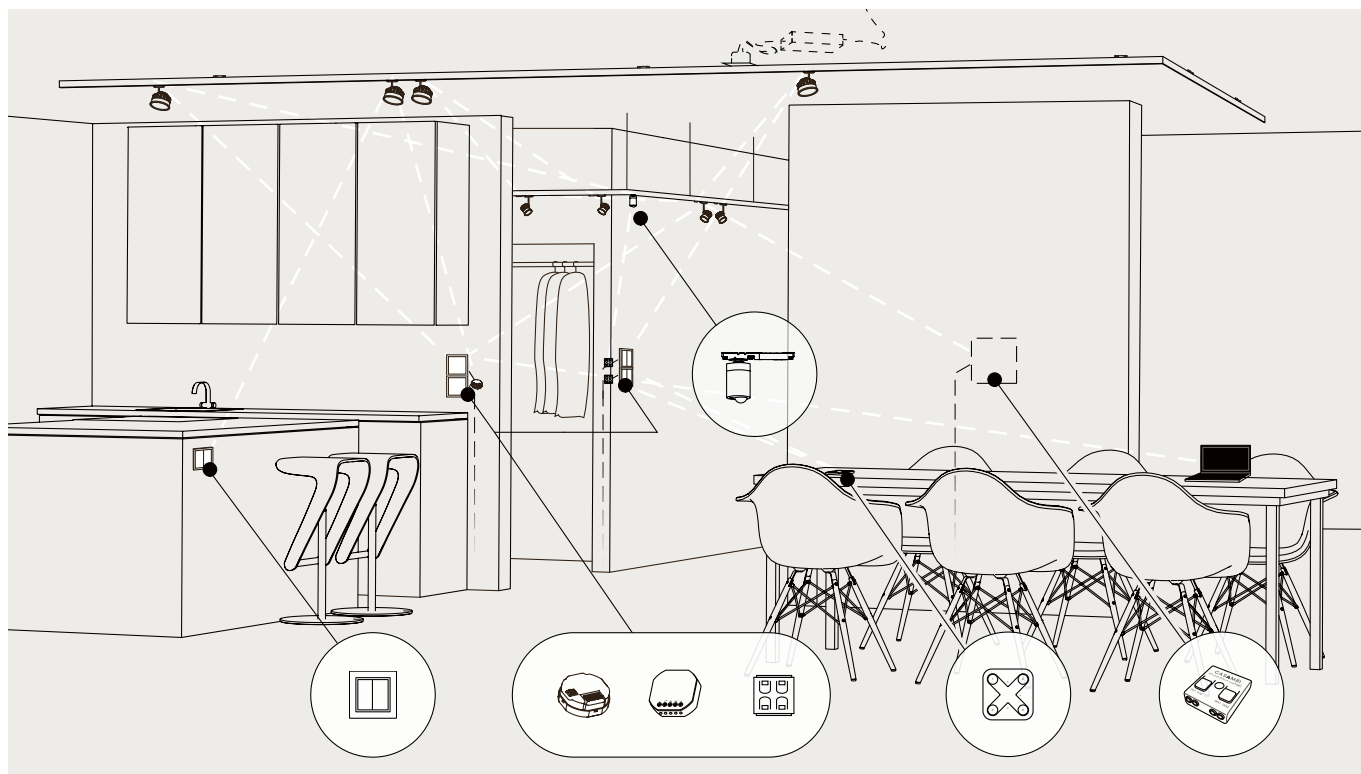
recessed canopy for power feed by cable

for LV cable connection or HV mains connection, cover plate 100x100 depth 50 diameter 74	article no.
	 93510
	 93517
	 93518



surface-mounted canopy for power feed by cable

for LV cable connection or HV mains connection, 70x73x23,5	article no.
	 93500
	 93537
	 93538



CASAMBI

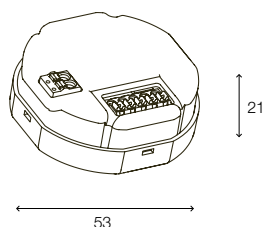
Casambi Xpress wireless wall switch

controlled via Casambi

- wall bracket for fixed mounting
- Xpress control panel can be attached via magnet
- 2 push button dimming switches,
- 2 multifunctional buttons (configurable)
- wireless standard 2.4 GHz
- coverage to first mesh-enabled spotlight: 10 m indoor, 50 m outdoors
- battery-operated using a CR2430 battery (2 - 5 years battery service life)
- WHD 90x90x12 mm
- for up-to-date information, visit www.casambi.com

article no.

- 97908 w
- 97908 b



CASAMBI

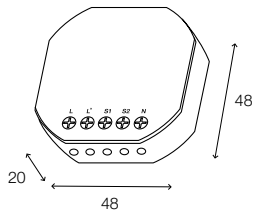
SC-Ti-CAS push-button module, for flush-mounting behind a conventional push-button wall switch

controlled via Casambi

- for mounting behind a conventional switch
- up to 4 potential-free switches connectable
- coverage to first mesh-enabled spotlight: 10 m indoors, 100 m outdoors
- controlled via Casambi
- Ø 53xH 21 mm
- The device is automatically identified by the Casambi app and can be integrated into a preexisting network. The switching can be configured via the Casambi app.
- Operated on mains supply, the device can be built into a flush-mounted socket.

article no.

97918



CASAMBI

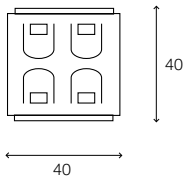
Casambi switching relay

controlled via Casambi

- 2 functions:
 1. The relay can meet the requirements of the Ecodesign Directive. It switches the operating device completely voltage-free in order to reduce the standby power loss in the sense of the ERP directive EU 2019/2020. Due to its high load, it is suitable - independently of our Sense system - for e.g. switching non-dimmable electrical devices on and off, suitable for loads up to 3000 VA - 13 A; a physical connection to the operating device is required
 2. Combined with a conventional push-button, the Casambi unit also offers the option of connecting 1 or 2 freely configurable push-buttons that can be used freely in the Casambi interface for luminaire / group / scene / relay etc.
- can be combined with all commercially available push-buttons (spring-back)
- WTH 47.5 x 47.5 x 20 mm

article no.

97919



CASAMBI
xicato

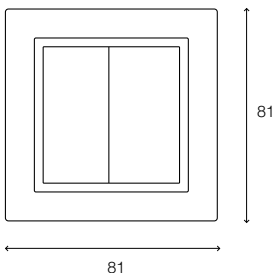
transmitter module PTM 215B for installation in wireless switches

controlled via Xicato Controls or Casambi

- for installation in EnOcean switch mounting kits for a variety of switch manufacturers
- 4 assignable switches
- device configuration via NFC (ISO 14443) wireless standard 2.4 GHz, AES128 (CBC) authentication
- initial installation only possible with NFC-enabled end devices (for iPhones: the centre of the button must be positioned at the very top of the iPhone because the NFC interface is located there)
- coverage to first mesh-enabled spotlight: 10 m indoor, 100 m outdoors
- battery-free thanks to Kinetic Energy Harvesting
- WHD 40x40x11.2 mm
- is applied in mounting kits that are not supplied with a wireless module: e.g. Gira mounting kit, EnOcean wireless wall-mounted transmitter 2-channel, System 55, Gira 8232 -03, -26, -27 and -28 or as an exchange module for EnOcean wireless wall-mounted transmitters with an integrated module from the PTM 21x range

article no.

97914



CASAMBI
xicato

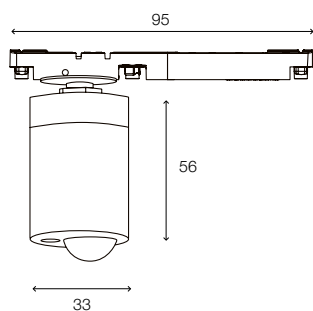
double rocker wall switch Easyfit, white wireless standard

controlled via Xicato Controls or Casambi

- can be screwed or glue-mounted onto walls, WHD 81x81x14 mm
 - 4 assignable switches
 - device configuration via NFC (ISO 14443) BLE standard 2.4 GHz, AES128 (CBC) authentication
 - initial installation only possible with NFC-enabled end devices (for iPhones: the centre of the button must be positioned at the very top of the iPhone because the NFC interface is located there).
 - coverage to first mesh-enabled spotlight: 10 m indoor, 100 m outdoors
 - battery-free thanks to Kinetic Energy Harvesting
 - can be integrated in the cover frame of various switch ranges
- Please contact us for information on the switch ranges available.

article no.

97912


CASAMBI

Casambi motion detector

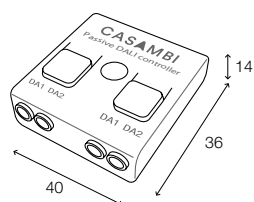
motion detector with buschfeld hide adapter

- 48 V DC / max 0,4 W
- coverage white or black
- with adapter hide
- for application in Buschfeld pend48, ceiling48 oder in48 track
- range 5 m, angle max 100° horizontal, 64 detection zones
- setup via Casambi App: switch-on times, twilight settings of light sensor
- Ø 33xH 56 mm

article no.

○ 90150 w

● 90150 b


CASAMBI

DALI-Casambi Gateway

for integrating Casambi luminaires into a DALI bus

- DALI on Casambi, CBU-DCS
- Gateway can only be operated in the Evolution network
- pro Casambi Leuchte wird eine DALI-Adresse belegt, dies entspricht max 64 Casambi Leuchten pro DALI-Bus / Gateway
- one DALI address is assigned per Casambi luminaire, which corresponds to a maximum of 64 Casambi luminaires per DALI bus / gateway
- WHD 40.4 x 36.3 x 14.0 mm

article no.

97917

<

Individual

individualised lighting design

Architecture and spatial layouts can be extremely complex, and lighting requirements therefore often of an exceptional nature.

Buschfeld lighting systems are highly flexible.

Designed as modular systems, they lend themselves to the creation of appropriate, project-related solutions.

The track systems can be applied across the corners of a space, even combined vertically and horizontally. It is also possible to combine different systems.

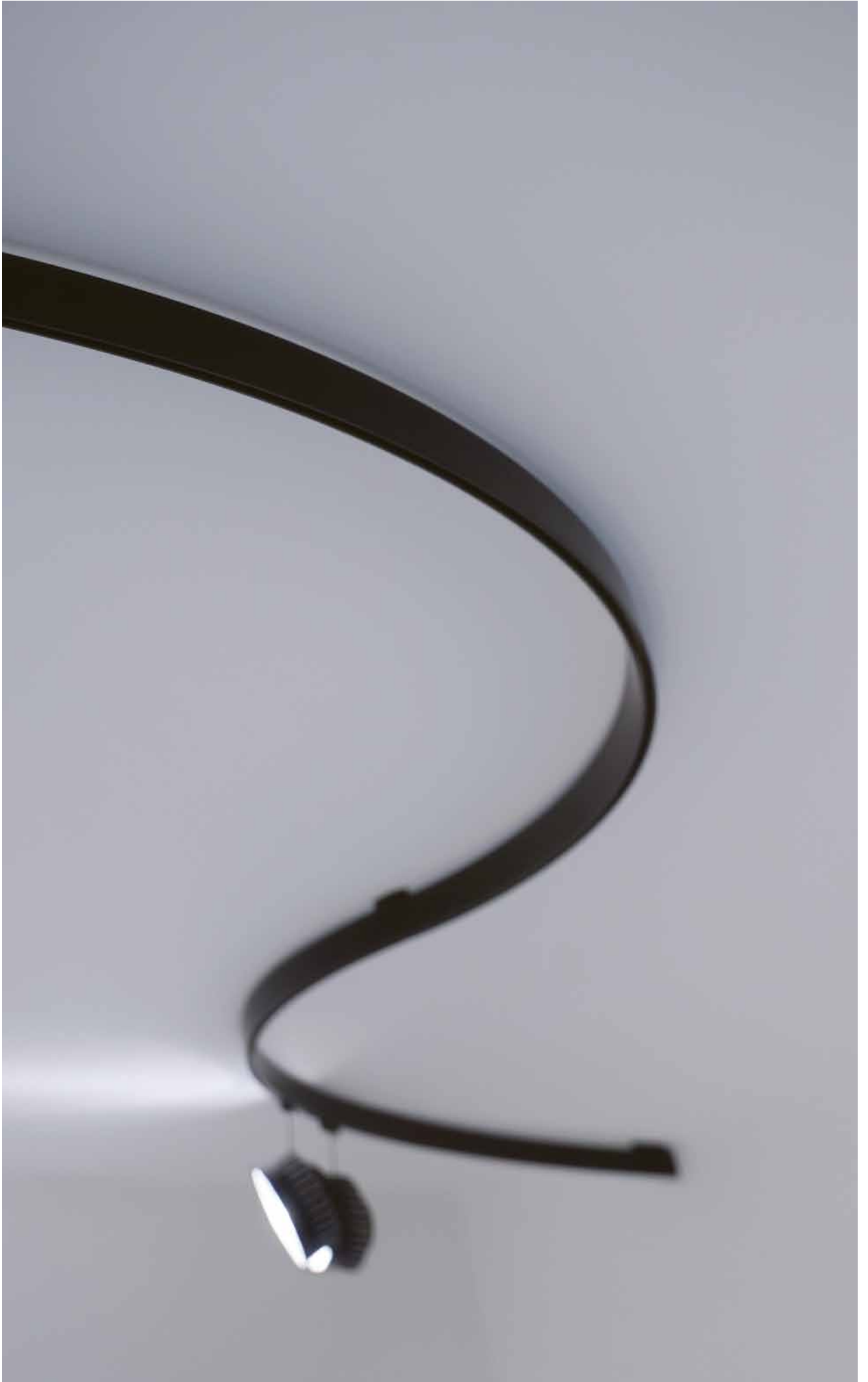
Support and assistance

Buschfeld lighting systems provide you with far more combination options with regard to application, dimensions, colour and finishes than we can show you here.

We are happy to support you with your design ideas and planning. Just give us a call or send us an e-mail:

Tel.: +49 221 93764-0 info@buschfeld.de

Sense System
freeform48 ceiling mounted with
luminaire Ninety-Five S

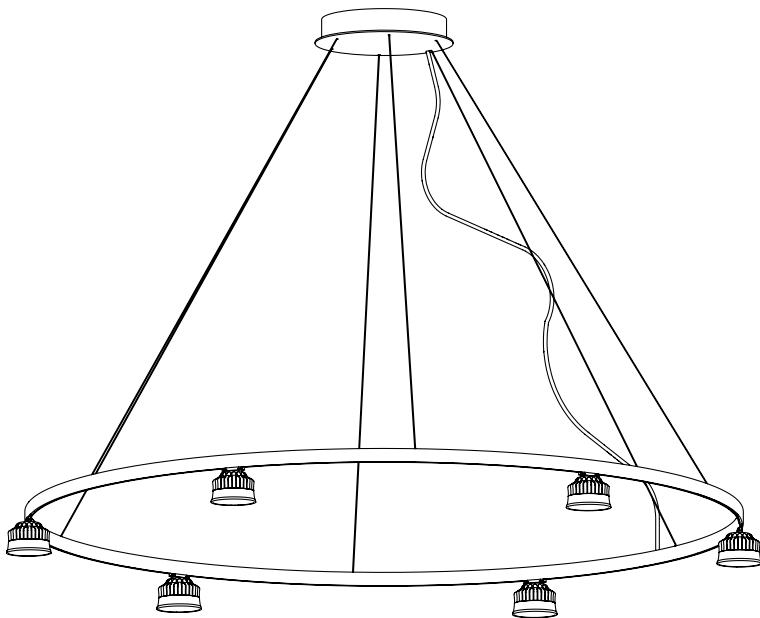


rondo48 - ring-shaped luminaire

You want to design your own chandelier – Rondo48 is exactly the right modular low-voltage ring-shaped system you are looking for. Rondo is custom-made to suit your project, and based on our Pend and Ceiling track systems. The individual rings of a given chandelier can be suspended on the same or vertically on different levels, or mounted directly onto the ceiling. Or the chandelier can be suspended from a central ceiling rose or mounting module, if desired.

Rondo48 is designed to take any of the luminaires in the Pend48 or Ceiling48 range.

The Led Line uplighter module can also be applied.

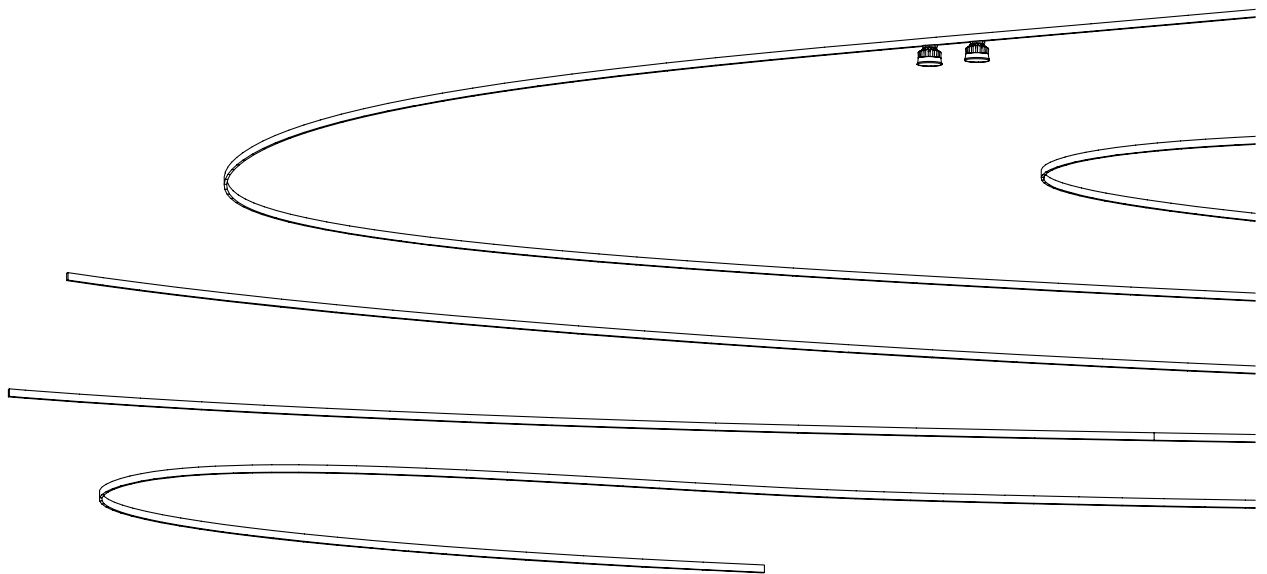


rondo for ceiling48 or pend48

freeform48 - custom shapes

It could not be easier to adapt a lighting solution to a particular spatial environment: free forms can be constructed from individual arch-shaped elements of different radii (500 mm minimum) and straight sections of track. Both pendant and ceiling-mounted versions are possible.

For the production of free-form shapes, we require a 1:1 plotted diagram. In this case too, the system is designed to take any of the luminaires from the Pend48 or Ceiling48 range.



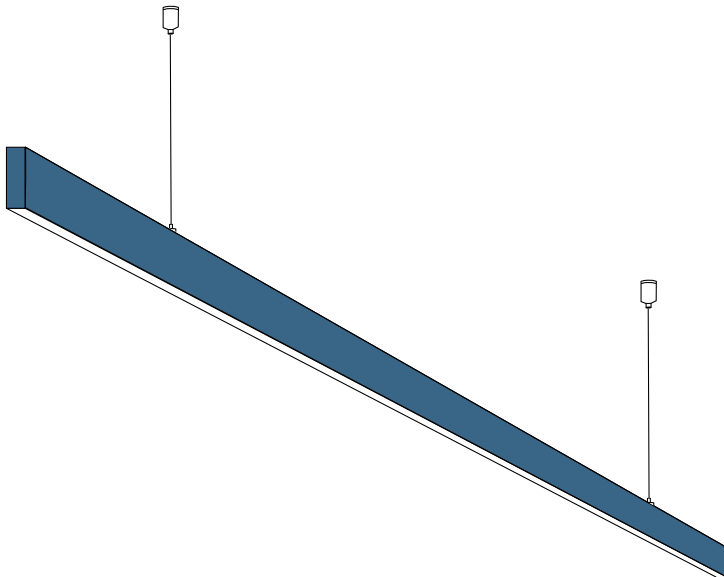
freeform for ceiling48 or pend48

colour - custom colours



























All lightlight track and shades can be supplied in custom colours to RAL standards.

This enables further design highlights within the interior space: by applying Sense System in bold colours you can focus attention on the lighting concept - whereas subtle colours render the track practically invisible.

Custom anodised colours or gold leaf finishes can also be realised on request!



Examples of the colours available:

 RAL 9018	 RAL 1019	 RAL 3004	 RAL 4003	 RAL 5020	 RAL 7008
 RAL 1001	 RAL 1027	 RAL 3009	 RAL 4005	 RAL 5023	 RAL 7011
 RAL 1002	 RAL 1028	 RAL 3012	 RAL 4009	 RAL 6002	 RAL 7016
 RAL 1007	 RAL 2002	 RAL 3014	 RAL 5000	 RAL 6013	 RAL 7044
 RAL 1013	 RAL 2011	 RAL 3020	 RAL 5013	 RAL 6018	 RAL 8023
 RAL 1018	 RAL 3000	 RAL 4001	 RAL 5018	 RAL 6019	 RAL 9005

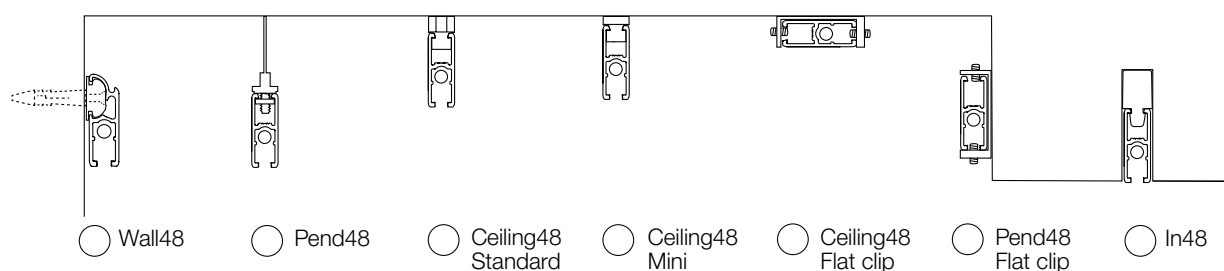
Sense System project document

buschfeld Tel +49 221 93764-0 Fax -79 info@buschfeld.de www.buschfeld.de

contact

company: _____ project name: _____
country: _____ details (e.g. floor level): _____
contact person: _____ e-mail / tel. no: _____

system



colour



☐ alumatt



☐ white



☐ black



☐ bronze



☐ custom colour

control gear and position of power feed

- ☐ for visible mounting in a design housing (incl. power feed)
- ☐ for concealed mounting - please indicate or sketch in the position of the required feed points:

adapter



☐ hide

lighting control

☐ CAS▲MBI ☐ Xicato®

luminaires

quantity	name of luminaire	power	colour temperature	beam angle	shade	
pcs		W	K	°	yes	no
pcs		W	K	°	yes	no
pcs		W	K	°	yes	no

sketch

Terms and conditions of business

General Terms and conditions of Buschfeld Design GmbH
Terms of sale and delivery relating to Buschfeld Design GmbH, Cologne
(hereinafter: Manufacturer) – as of 1st January, 2021.

I. General information

1. The general terms and conditions of business listed below (hereinafter Terms) apply exclusively. Other terms are only considered to be an integral part of the contract when the Manufacturer has expressly agreed to their validity in writing. In the course of transactions, the version of the terms and conditions of business prevailing on conclusion of the respective contract provide the basis for all future business.
2. All agreements made between the parties to the contract must be put down in writing. Purchase orders will only be dealt with when confirmed in writing. This also applies for purchase orders arranged through sales representatives and sales personnel. Confirmed orders deviating from originally agreed orders shall be treated as new offers. Any additions, amendments and sub-agreements made to orders already placed, or any agreements or promises of delivery made by the Manufacturer, only come into effect when confirmed in writing by the Manufacturer.

II. Offers and the documents inherent to offers

1. Offers are subject to change without notice, unless otherwise agreed.
2. Documents and data inherent to an offer, such as illustrations, drawings, weights and dimensions, are only approximately authoritative, unless expressly quoted as binding. Technical descriptions, explanations and specifications, as well as textual information describing how products work, do not constitute any legal warranties. Specific properties and qualities are only guaranteed when expressly confirmed in writing by the Manufacturer.
3. Deviations may occur in descriptive material and data provided in brochures, catalogues and other documents. Amendments may be made to the above as a result of technical progress. Such deviations or amendments do not afford anyone the right to hold claims against the Manufacturer.
4. The offer and any related documents may not be forwarded, published or copied, or used for any other than the agreed purpose without the permission of the supplier.
5. The Manufacturer may request all paperwork and documents related to an offer to be returned to sender.

III. Scale of the delivery – written confirmation

1. The confirmation of order contains the details of the scale of the delivery.
2. The Manufacturer is entitled to send partial shipments to the customer, and invoice for those partial shipments accordingly.
3. Samples shall only be shipped when expressly agreed with the Manufacturer. Such shipments shall also be invoiced.

IV. Prices

1. Unless otherwise agreed and recorded in the confirmation of order, all prices are quoted for shipment from the storage in Cologne, excluding postage and packing.
2. These prices are based on the manufacturing costs at conclusion of contract. In the case of long-term delivery arrangements, the Manufacturer is, however, entitled to request or demand prices be adjusted, should one or more of the following occur:
 - costs for materials required for manufacture increase
 - labour costs or incidental labour costs increase due to legal or pay scale adjustments
 - there is an increase in value added tax (VAT).

Should no agreement be reached within the framework of negotiations on amendments to contractually agreed prices, each of the parties to the contract is entitled to terminate the contract within three months to the end of a quarter. Termination of contract must be made in writing.

V. Payment

1. Unless otherwise agreed, payments shall be made without any deductions and free of transaction charges to the Manufacturer's designated account(s). Terms are as follows: 2 % cash discount within 14 days after date of invoice or net invoice amount within 30 days.
2. Invoices for repairs, mounting/installing, custom-made products, tools, development costs and models shall be paid immediately without any deductions. First-time deliveries are only affected against advance payment.
3. In the case of overdue payments, customary interest shall be calculated at 9 % (final customers 5 %) above the basic interest rate quoted by the Deutsche Bundesbank; the Manufacturer reserves the right to make further claims.
4. Bills of exchange and cheques are only accepted for payment under specifically agreed conditions. Should a bill of exchange be accepted, discount charges are calculated to the amount of 4 % above the respective main re-financing rate as quoted by the ECB. Payment effected by means of bills of exchange or cheques is only considered settled when the invoiced amount has been credited to our account.
5. The Purchasing Party is only granted the right to set-off costs if there are legally recognized reasons for counterclaims or are undisputed; right to refuse performance may only be asserted under the condition that any justified counterclaims are based on the same, contractual relationship.

VI. Delivery times

1. The delivery times quoted by the Manufacturer are not binding and require all technical issues to be clarified in advance – unless otherwise agreed in writing. An agreed delivery time commences once the confirmation of order has been sent, but not before the Purchasing Party has fulfilled all obligations. This applies in particular in the case of agreed advance payments.
2. The delivery time is regarded as being adhered to when the article of sale

has left the Manufacturer's plant before the delivery time has elapsed.

3. The delivery time may be extended due to unforeseen circumstances, irrespective of whether these occur in the Manufacturer's plant or through one of his suppliers, e.g. the unforeseen disruption of operations, lawfully recognized strikes, lock-outs, the non-punctual delivery of specific parts despite a due and timely order, as well as any other occurrences which are outside the control of the Manufacturer. The Manufacturer is obliged to inform the Purchasing Party in writing of the onset and conclusion of any such occurrences at his earliest possible convenience.

4. Should the Manufacturer establish that he cannot affect punctual delivery and the Purchasing Party can prove that this has given rise to damages, the Manufacturer is liable to pay compensation: for every completed week of non-delivery, this amounts to 0.5 %, but no more than 15 % max. of the value of that part of the goods to be delivered which, as a result of the delay in delivery, cannot be used opportunely. The same applies if the Purchasing Party can prove he has lost custom, or business is to be settled within a given time period in accordance with § 376 of the German Civil Code, and this is not possible because of the delay. In any case, the liability for damages is limited to the kind of foreseeable, typical damages that may occur.

The Purchasing Party is only entitled to further claims should the delay be due to wilful intent or gross negligence.

5. Should the Purchasing Party set the Manufacturer an equitable period of grace while threatening to otherwise refuse acceptance of delivery, after the latter has failed to deliver on time, the Purchasing Party is entitled to withdraw from the contract should the period of grace elapse for reasons that can be proven to be the fault of the Manufacturer. The Purchasing Party is only entitled to claim for damages for the Manufacturer's failure to perform within the scope of the kind of foreseeable, typical damages that may occur in the case of not wilful intent or gross negligence.

VII. Transfer of risk – acceptance of delivery

1. The services performed by the Manufacturer shall be considered received by the Purchasing Party on completion of the delivery of the ordered goods. This also applies in the case of partial performance.

2. On acceptance of the delivery, the risk is transferred to the Purchasing Party. Should the Purchasing Party be in default concerning the acceptance of the delivery, the risk is transferred to him at the point when the default occurs. The same applies when provision of services is interrupted at the fault of the Purchasing Party and the Manufacturer has entrusted the Purchasing Party with the services / delivery performed to date by mutual agreement.

3. Shipment is effected at the risk of the Purchasing Party, even under freight paid conditions. The Manufacturer is only liable for damage during delivery, if shipment is expressly effected at the Manufacturer's risk. Goods can only be insured against breakage at the request and at the cost of the Purchasing Party. A possible credit note covering the damage can only be issued if the Manufacturer has confirmation of coverage from the insurance company. The Manufacturer is not expected to assume any other obligations. Unless expressly agreed otherwise, shipments are not insured.

4. The goods delivered by the Manufacturer shall also be accepted by the purchasing partner in the case of minor defects.

5. Should the Purchasing Party be found responsible for default of acceptance, or should he not fulfil his obligation to cooperate, he is obliged, as of two weeks after notice of the Manufacturer's readiness for shipment, to cover any costs incurred by the Manufacturer for the storage of goods ready for dispatch to the amount of 0.5 % of the invoice amount for every month, unless he can prove to the Manufacturer that the damage did not occur at all or was significantly lower than the flat rate.

The Manufacturer reserves the right to make other claims, especially those resulting from §§ 373ff of a bilateral commercial transactions in the German Commercial Code. If the Purchasing Party fails to take action within a reasonable time, the Manufacturer is entitled to stage a self-help sale.

VIII. Reservation of property rights

1. All items to be delivered remain the property of the Manufacturer (contractor) until the invoice for products/services provided has been settled by the Purchasing Party.

2. Pursuant to section 4, for the duration of the reservation of property rights the Purchasing Party is not entitled to liquidate, give away, pawn or transfer the delivered goods to secure a debt.

3. In the case of seizure or attachment by third parties of the goods in reserve, the Manufacturer must be informed immediately in writing so that he can take legal action as per § 771 in the Code of Civil Procedure. Should the third party not be in a position to reimburse the costs incurred in and out of court related to legal action as per § 771 in the Code of Civil Procedure, the Purchasing Party shall be liable for the resulting damages.

4. Should the purpose of the delivery be the re-sale of the goods from a company or point of sale operated by the Purchasing Party, the Purchasing Party is obligated to reserve property rights vis-à-vis customers when re-selling. The rights and claims related to this reservation of property are hereby ceded by the Purchasing Party to the Manufacturer who accepts them, irrespective of whether the delivery item(s) have been resold with or without possible further processing.

5. In the case of delayed payment of the Purchasing Party, the Manufacturer is entitled to take back all delivered items. The acceptance of returned goods does not signify withdrawal from contract, unless this has been explicitly clarified in writing. After seizure, the purchased items are at the disposal of the Manufacturer to utilize, sell or exploit as desired. Proceeds can be offset against accounts payable by the Purchasing Party – after deduction of costs incurred in the exploitation process.

6. The Purchasing Party is obligated to take care when handling the purchased items. In particular, he is obligated to insure them adequately at replacement value against damage from fire and water, and against theft. Should

maintenance and inspection work be necessary, the Purchasing Party is required to have this performed in good time at his own expense.

7. Should the purchased items be processed together with other items not belonging to the Manufacturer before full payment has been effected, the Manufacturer shall acquire joint ownership of the new item(s) in relation to the value of the purchased item(s) (final invoice amount, incl. VAT) to the other item(s) that have been processed at the point in time when processing is undertaken. The same applies for the goods/items resulting from processing as for the purchased item(s) delivered under reserve.

8. Should the purchased item(s) be inseparably mixed with other items not belonging to the Manufacturer before full payment has been effected, the Manufacturer shall acquire joint ownership of the new item(s) in relation to the value of the purchased item(s) (final invoice amount, incl. VAT) to the additional items at the point in time when all the items are put inseparably together.

9. The Purchasing Party shall also assign any claims to secure accounts receivable by the Manufacturer, which are created against a third party by the combination of the purchased goods with real estate.

10. When required by the Purchasing Party, the Manufacturer is obligated to release the collaterals to the extent by which the realisable value of the collateral exceeds the receivables by more than 10 %; it rests with the Manufacturer to decide which collaterals are to be released.

IX. Liability

1. Claims relating to apparent defects are not recognized after delivery and acceptance of the goods.

2. The Purchasing Party is obligated to examine the accepted item(s) immediately for possible defects and, if a defect is found, to notify the manufacturer in written form without delay. If the customer fails to notify the Manufacturer, the goods are deemed to have been approved, unless there is a defect that could not be identified during the examination.

If such a defect appears later, the written notification must be made immediately after the discovery, otherwise the goods are considered to be approved even with regard to this defect.

3. Defects shall be communicated to the Manufacturer immediately in written form, whereby the Manufacturer is obligated to rectify the defect or replace the defect items or parts. The Manufacturer reserves the right to reduce the price if the repair fails or to withdraw from the contract at his choice.

4. If the goods are delivered to a place or town other than the place of business of the Manufacturer, the Purchasing Party shall bear all costs related to rectifying the defect or replacement of the defect items or parts.

5. Marginal deviations in dimensions and designs, especially in the case of repeat orders or subsequent requests for modification on the part of the Purchasing Party, which do not affect the usability of the products, shall be considered to be pursuant to the contract.

6. Any other claims for damages, contractual penalties or loss of profit shall remain unrecognized, unless they can be proven to be based on the deliberate or grossly negligent breach of contract on the part of the contractor or any one of his assistants or agents.

7. The above-mentioned liability limitations apply in the case of infringement of pre-contractual, contractual and post-contractual obligations, i.e. primary and secondary obligations, unless they conflict with any compulsory statutory provisions.

8. All claims against the Manufacturer, on whatever legal grounds, become invalid after a period of six months, unless they conflict with compulsory statutory provisions, Section 11 remains unaffected.

9. The Manufacturer is not liable for material damage to shipments procured from third parties and forwarded to the Purchasing Party unchanged. He is entitled to withdraw from the contract insofar as he has not received the delivery item(s) in spite of having previously concluded a general purchasing agreement; liability in the case of a deliberate or grossly negligent breach of contract remains unaffected. The Manufacturer shall inform the Purchasing Party immediately about non-punctual delivery of items and, should he wish to withdraw from the contract. Any consideration received shall be refunded forthwith.

10. No responsibility is accepted for damage resulting from inappropriate or improper application, faulty or defective installation or operation on the part of the Purchasing Party, or third parties working for or in the installation of the Purchasing Party or third parties, or resulting from normal wear and tear, defective or careless treatment, inappropriate operating resources, substitute materials, defective construction work, inappropriate support medium, or the effect of chemical, electrochemical or electrical substances or equipment, unless they can be proven to be the result of deliberate or gross negligent actions on the part of the Manufacturer. In the case of electric equipment: the regulations laid down by the association of German electrical engineers apply.

11. For new products supplied by the Manufacturer a statutory warranty period of two years applies. The warranty begins on the date the products are dispatched ex works in Cologne.

12. In the case of the data provided on the average lifespan of light sources, these are mean values. There is no guarantee that a light source will achieve at least this lifespan.

X. Rights of use, rights of third parties

1. On placing an order the Purchasing Party ensures that he personally, or his client, has the right of use for all image files and graphic material, and in particular photos, provided to the Manufacturer for processing or editing. The Purchasing Party is responsible for ensuring that authorising the Manufacturer to process the image files and graphic material provided complies with the applicable laws, in particular the laws governing copyright and trademarks, and does not infringe upon the rights of third parties.

2. The Purchasing Party shall indemnify the Manufacturer against all claims of third parties, which are filed against the Manufacturer due to the infringement

of their rights in relation to the image files and graphic material used, in particular due to the infringement of copyright or trademark rights. The Purchasing Party also undertakes to pay the Manufacturer for any damages incurred.

3. In individual cases the Manufacturer reserves the right to subsequently refuse to accept orders which do not comply with legal stipulations or contradict accepted moral principles or standards.

4. Copyright and prohibition on exploitation
Contents and images contained on the Manufacturer's homepage are subject to German copyright law. Duplication, processing, distribution and any other form of utilisation requires the prior written consent of the Manufacturer. Downloads and copies of this homepage are not permitted. This applies in particular to all photos on the Manufacturer's homepage. To the best of the Manufacturer's knowledge, the rights of third parties were respected when creating the homepage. Should the Manufacturer be notified of any infringements in relation to the latter, the relevant contents will be removed from the Manufacturer's homepage immediately.

XI. Other liabilities

1. The warranty disclaimers listed in section VIII also apply for all other claims made by the Purchasing Party against the Manufacturer – irrespective of legal basis.

2. In all points listed above where the Manufacturer bears no, or limited, liability, this also applies in the case of claims lodged by the Purchasing Party against our staff / support staff / employees / agents / representatives.

XII. Place of Jurisdiction

1. The place of fulfilment for all obligations resulting from the contractual relationship is the business location of the contractor. Should a different place of fulfilment be agreed, the Purchasing Party is liable to cover all costs.

2. The contents of the contract and the relationship between the parties to the contract are exclusively subject to Federal German law. The application of the uniform law relating to the international purchase of moveable objects, as well as the law relating to the conclusion of international contracts of sale of moveable objects does not apply.

XIII. Assignment

All claims lodged against the Manufacturer are not transferrable without the written consent of the Manufacturer and may be exercised by the Purchasing Party only.

XIV. Severability clause

If any clause or part of this agreement shall for any reason be adjudged by a court of competent jurisdiction to be invalid, such judgement shall be limited and confined in its operation to the clause involved in the controversy.

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