

Sys

The elegant and modular low-voltage track system that allows the various light modules to be fast and easily installed and repositioned by simple clipping, with a reliable mechanical coupling.

01 / Structure

- ① Structure segments
- ② Fitting accessories
- ③ End Caps
- ④ Blind module

02 / Connectors

- ⑤ Structure connectors
- ⑥ Eletrical connectors

03 / Power Supply

- ⑦ Intrack
- ⑧ Surface Base
- ⑨ Remote

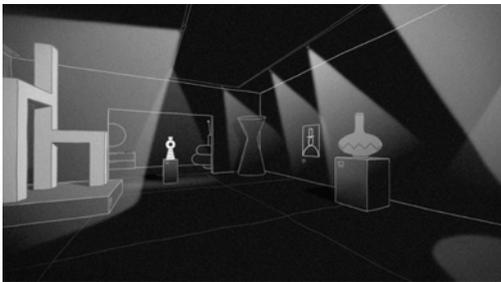
04 / Light Modules

- ⑩ inFinit module
- ⑪ Uw module
- ⑫ inVision module
- ⑬ Diffuse module
- ⑭ Indirect module
- ⑮ Over module

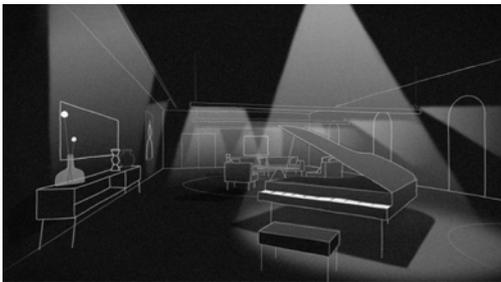
Sys step-by-step

Discover all the extensive possibilities of the O/M Sys modular track system with this Planning guide, made for lighting designers and technicians.

This document shows cross-product planning approaches and provides advice for installing the Sys system. It does not replace data sheets, installation instructions and other product documentation. Always check the latest product information on our website.



Accent lighting



Wallwashing and task lighting



Indirect and task lighting

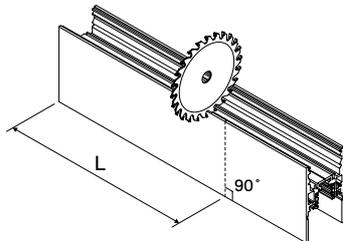


General and accent lighting

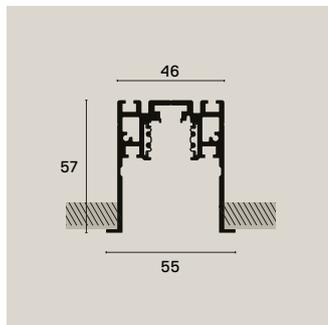
01 / Structure

1 Structure segments and cuts

Structure segments have 2000mm or 3000mm but can be shorten on-site, or ordered a cutting service from O/M, if necessary. For additional information contact support@om-light.com.



Recessed



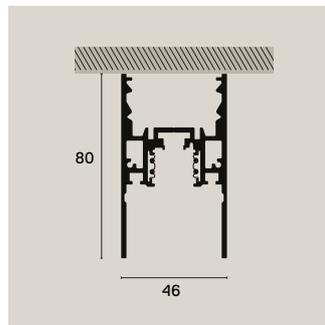
Structure Recessed (2000mm)

70000.*

Structure Recessed (3000mm)

70001.*

Surface



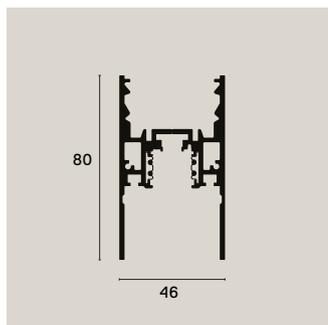
Structure Surface (2000mm)

70002.*

Structure Surface (3000mm)

70003.*

Pendant



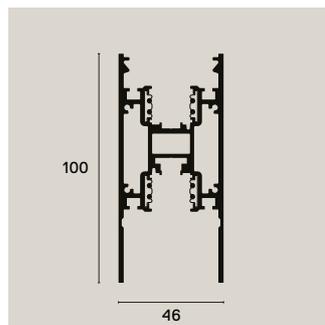
Structure Pendant (2000mm)

70052.*

Structure Pendant (3000mm)

70053.*

Pendant Direct / Indirect



Structure Pendant D/I (2000mm)

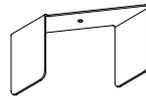
70004.*

Structure Pendant D/I (3000mm)

70005.*

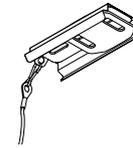
2 Fitting accessories

Choose the Fitting accessories according to the desired application.



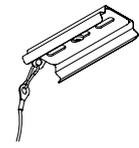
Fitting accessory Recessed

70040



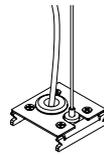
Fitting accessory Surface (start/end)**

70041



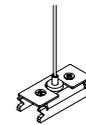
Fitting accessory Surface (middle)**

70042



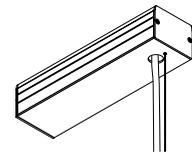
Fitting accessory Pendant for Power Feed

70043.*



Fitting accessories Pendant

70044.*



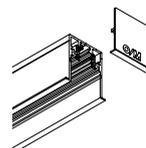
Linear ceiling base

70051.*

** The Fitting accessories Surface are Optional. This application structure can be fixed with screws. See Sys Surface Installation Instructions.

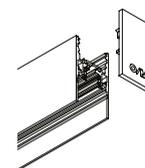
3 End Caps

Choose the set of two End caps according to the desired application.



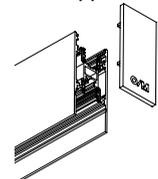
End Cap (7mm) Recessed

70006.*



End Cap (5mm) Surface/Pendant

70007.*

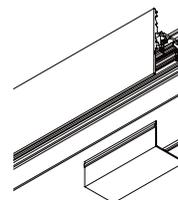


End Cap (7mm) Pendant D/I

70008.*

4 Blind modules

Use Blind modules direct or indirect if you want to fill in unwanted gaps between Light modules for a streamlined and clean look. Like Structure segments, Blind modules can be shorten on site.

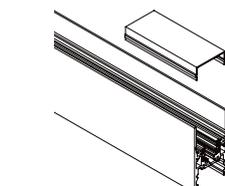


Blind module direct (500mm)

71000.*

Blind module direct (1000mm)

71001.*



Blind module indirect (500mm)

71004.*

Blind module indirect (1000mm)

71005.*

Blind module direct (2000mm)

71002.*

Blind module direct (3000mm)

71003.*

Blind module indirect (2000mm)

71006.*

Blind module indirect (3000mm)

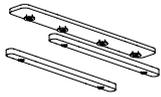
71007.*

* Please add the finish code ○ .01 White ● .02 Black

02 / Connectors

5 Structure connectors

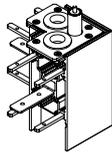
Structure Connector Linear



Recessed **70009.*** Surface **70010.*** Pendant **70069.***

Pendant D/I **70011.***

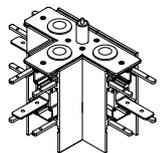
Structure Connector Corner



Recessed **70012.*** Surface **70013.*** Pendant **70061.***

Pendant D/I **70014.***

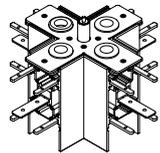
Structure Connector T-Shape



Recessed **70015.*** Surface **70016.*** Pendant **70062.***

Pendant D/I **70017.***

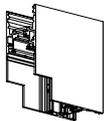
Structure Connector X-Shape



Recessed **70018.*** Surface **70019.*** Pendant **70063.***

Pendant D/I **70020.***

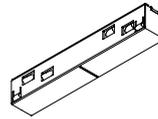
Structure Connector Corner Wall / Ceiling



Recessed **70021.*** Surface **70022.***

6 Electrical connectors

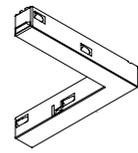
Electrical Connector Linear



Recessed **70024.*** Surface **70024.*** Pendant **70024.***

Pendant D/I **70024.***

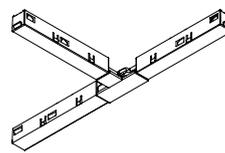
Electrical Connector Corner



Recessed **70025.*** Surface **70025.*** Pendant **70025.***

Pendant D/I **70025.***

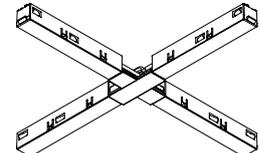
Electrical Connector T-Shape



Recessed **70026.*** Surface **70026.*** Pendant **70026.***

Pendant D/I **70026.***

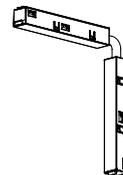
Electrical Connector X-Shape



Recessed **70027.*** Surface **70027.*** Pendant **70027.***

Pendant D/I **70027.***

Electrical Connector Adjustable



Recessed **70028.*** Surface **70028.*** Pendant **70028.***

Pendant D/I **70028.***

| Electrical | Structure | | | | | |
|------------|-----------|--------|---------|---------|----------------|-------------------|
| | Linear | Corner | T-Shape | X-Shape | Wall / Ceiling | Direct / indirect |
| Linear | | | | | | |
| Corner | | | | | | |
| T-Shape | | | | | | |
| X-Shape | | | | | | |
| Adjustable | | | | | | |

! As a rule of thumb account one Electrical connector per every Structure connector, unless you want independent electrical circuits, powered by different Power supplies.

* Please add the finish code ○ .01 White ● .02 Black

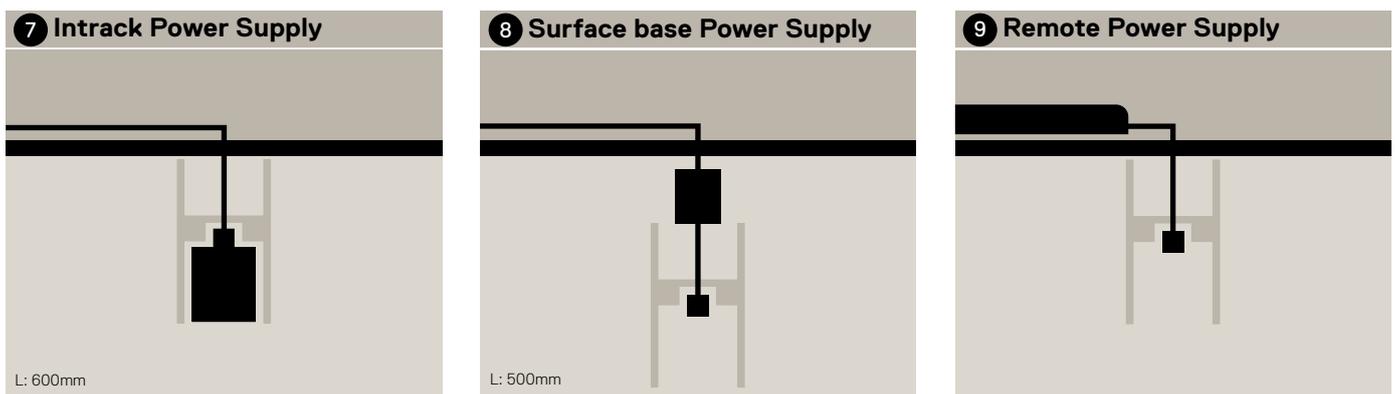
03 / Power Supply

Follow the next steps to find the right Power Supply:

- Determine the number of light modules required.
- Sum the power of all light modules.
- Think about future changes and whether it will be necessary to add more modules or exchange them for more powerful ones. If so, define a suitable higher value.
- Choose the type of Power Supply accordingly to the type of Structure application chosen.

| Application | Structure | | | |
|--------------|-----------|---------|---------|---------------------------|
| | Recessed | Surface | Pendant | Pendant Direct / Indirect |
| Surface Base | | | ● | ● |
| Intrack | ● | ● | ● | ● |
| Remote | ● | ● | ● | ● |

- With the sum of the power of all Light modules, match the **Maximum total light source power**** information of each Power supply wattage. Select the Power Supply with the next higher wattage or divide your Sys on multiple circuits and select more than one Power Supply.



| | | |
|---|---|--|
| <p>7 Intrack Power Supply</p> <p>Recessed 70030.* 150W (120W)**</p> <p>Surface 70030.* 150W (120W)**</p> <p>Pendant 70054.* 150W (120W)**</p> <p>Pendant D/I 70054.* 150W (120W)**</p> <p>70031.* 250W (200W)**</p> <p>70031.* 250W (200W)**</p> <p>70055.* 250W (200W)**</p> <p>70055.* 250W (200W)**</p> <p>Mandatory accessories (Pendant / Pendant D/I)</p> <p>Linear ceiling base 70051.*</p> | <p>8 Surface base Power Supply</p> <p>Pendant 70033.* 150W (120W)**</p> <p>Pendant D/I 70033.* 150W (120W)**</p> <p>70034.* 250W (200W)**</p> <p>70034.* 250W (200W)**</p> <p>Mandatory accessories (Pendant / Pendant D/I)</p> <p>End-feed 70023.*</p> <p>Linear ceiling base 70051.*</p> | <p>9 Remote Power Supply</p> <p>Recessed 70036 150W (120W)**</p> <p>70037 250W (200W)**</p> <p>70038 320W (250W)**</p> <p>70039 600W (480W)**</p> <p>Pendant 70057 150W (120W)**</p> <p>70059 320W (250W)**</p> <p>Surface 70036 150W (120W)**</p> <p>70037 250W (200W)**</p> <p>70038 320W (250W)**</p> <p>70039 600W (480W)**</p> <p>Pendant D/I 70057 150W (120W)**</p> <p>70058 250W (200W)**</p> <p>70059 320W (250W)**</p> <p>70060 600W (480W)**</p> <p>Mandatory accessories (Recessed / Surface)</p> <p>End-feed 70023.*</p> <p>Mandatory accessories (Pendant / Pendant D/I)</p> <p>End-feed 70023.*</p> <p>Linear ceiling base 70051.*</p> |
|---|---|--|

* Please add the finish code ○ .01 White ● .02 Black

03 / Power Supply

The next table helps with initial planning – a professional check during the project is mandatory. Information refers to a load equivalent to the power supplied and equally distributed on the relevant length in the table.

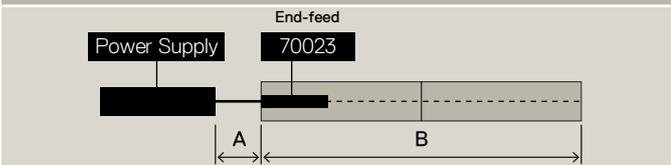
| Power supply Wattage | A | | | |
|-------------------------|--|-----|-----|-----|
| | Distance from Power Supply to End-feed (2x1,5mm ²) | | | |
| | 5m | 10m | 20m | 30m |
| | B | | | |
| | Structure length with $\Delta V \leq 5,5\%$ | | | |
| 150W | 50m | 40m | 20m | N/A |
| 250W | 35m | 20m | N/A | N/A |
| 320W | 30m | 15m | N/A | N/A |
| 600W | 20m | 5m | N/A | N/A |

❗ The cross-section of the cable should not be lower than 1.5mm², otherwise the voltage drop may be so great that the connected luminaires will not function properly.

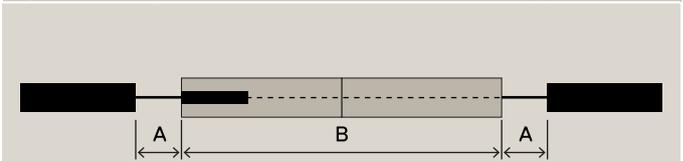
❗ The maximum length of the connection cable from the Power Supply unit to the Sys Structure depends on the Power Supply wattage, the cross section of the connection cable and the length of the Structure.

Examples:

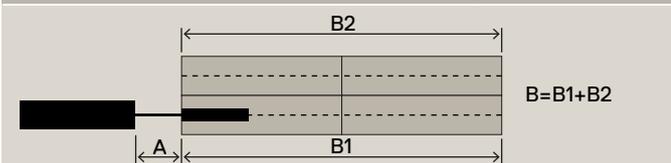
Sys Recessed, Surface or Pendant with 1 Power supply



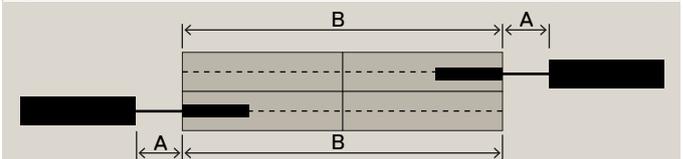
Sys Recessed, Surface or Pendant with 2 Power supplies



Sys Pendant Direct/Indirect with 1 Power supply



Sys Pendant Direct / Indirect with 2 Power Supplies (1 Dir + 1 Ind)



You can find an overview of how many lights can be run from a single power supply in the table below.

| Modules | Power Supply 150W (120W) | | Power Supply 250W (200W) | | Power Supply 600W (480W) | |
|---------------------------------------|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|
| | Modules (un.) | Structure (m) | Modules (un.) | Structure (m) | Modules (un.) | Structure (m) |
| 75022 inFinit 6,6W 617mm | 18 | 11 | 30 | 19 | 72 | 44 |
| 72022 Diffuse 14W 1140mm | 8 | 9 | 14 | 16 | 34 | 39 |
| 73095 inVision 56W 1201mm | 2 | 2,5 | 3 | 3,5 | 8 | 9,5 |

❗ Example:

Calculation for a Sys with modules **72022 | Diffuse | 14W | 1140mm**:

1. 120W : 14W ≈ 8 modules
2. 8 Modules x 1140mm = 9m Length of the Structure.

You can install 8 Diffuse Modules with a 150W (120W) Power Supply and achieve a circuit of 9m.

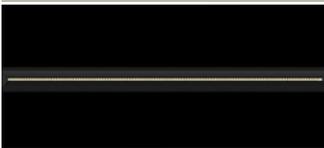
The result of these calculations should always be cross-referenced with the previous information.

04 / Light Modules



Choose the type, size and quantity of Light modules needed:

10 inFinit module



Unique Lightstream optics create exceptional visual comfort, ideal for workplaces.

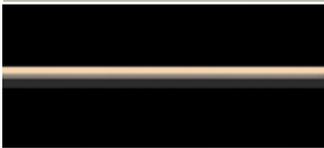
1193
905
617
329

Medium Flood



[mm](#) [See options*](#)

11 Uw module



The asymmetrical reflector drapes vertical surfaces with a uniform sheet of light.

1203
903
603
303

Wallwasher



[mm](#) [See options*](#)

12 inVision module



Efficient double focus optics provide discreet general and accent lighting.

1201
901
601
301

Medium Flood



[mm](#) [See options*](#)

13 Diffuse module



Perfect uniformity with frosted polycarbonate diffuser, for general lighting.

1140
860
580

Diffuse



[mm](#) [See options*](#)

14 Indirect module



Batwing optics spread indirect homogeneous light, widely distributed.

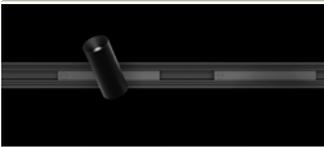
1093
822
551
280

Batwing



[mm](#) [See options*](#)

15 Over module



High-definition Lightcore optics create extremely precise beam angles and achieve maximum visual comfort.

177

Spot Medium Flood



[mm](#) [See options*](#)

Optional accessory

Modules removal tool **70045**

* Please add the finish code .01 White .02 Black

05 / Rules and warnings

- The Sys track system is Class III and is not compatible with Class I track systems or Class III track systems from other manufacturers. Insert the appropriate power circuit protections in order to prevent short circuits or overloads.
- It is forbidden to use control gear, drivers, DATA BUS systems and components that are not SELV-approved and/or with U-OUT greater than 60 Vdc.
- When an O/M Sys system is integrated into a larger lighting control system electrically merging the DATA BUS of the low-voltage track with that of other light fittings, all components used must be SELV-approved. O/M recommends the use of an opto-isolator repeater (e.g. 70050 Sys NON SELV to SELV DALI opto-isolator).

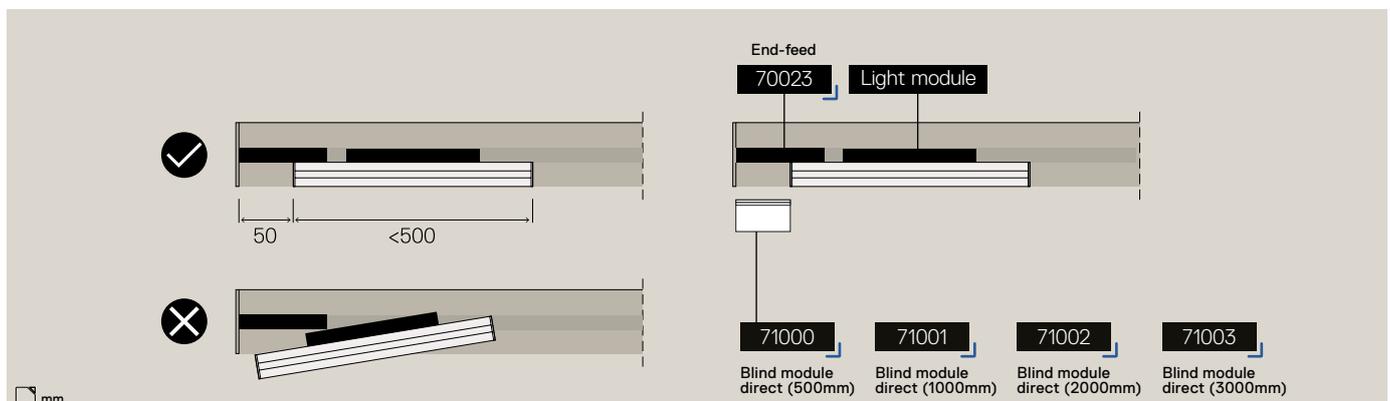
Technical info

- Voltage (Input): 0 - 60 Vdc
- Rated Current: max. 15A
- Max functioning T: 70°C
- Class III (SELV)
- Light modules are non-polarized.
- End-feed wiring cables: 4X1.5mm²
- Document your system carefully to help with subsequent extensions or changes in the configuration.
- It is strictly forbidden to use any kind of solvent, glue, oil, grease or cleaner in contact with O/M Sys system components. The company is not responsible of any damage caused using the materials mentioned above.
- Materials, design, our development program, and packages may be subject to changes without notice. The latest and most up-to-date information is always available on our website.

End-feed conflict

At the start of a Structure, when there is an End-feed and you want to apply Light modules with length less than 500mm, it will result in a gap about 50mm from the End cap.

This gap can stay open or be covered with a Blind module direct.

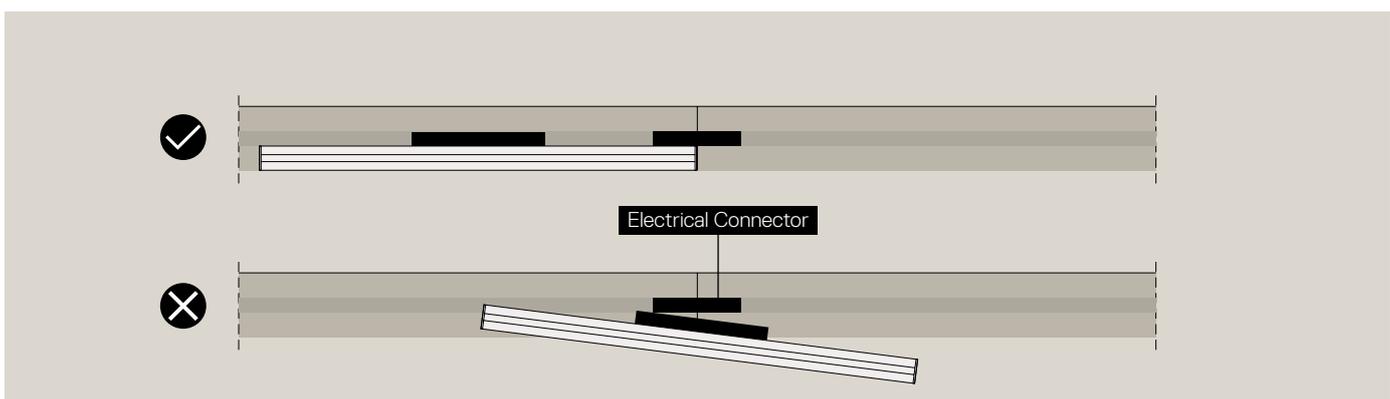


Modules alignment

We recommend that the end of the Modules matches with the end of the different Structure segments in the joints.

If this is fulfilled, the track adapters existing behind all Light modules will not conflict with the existing Electrical connectors in the joints.

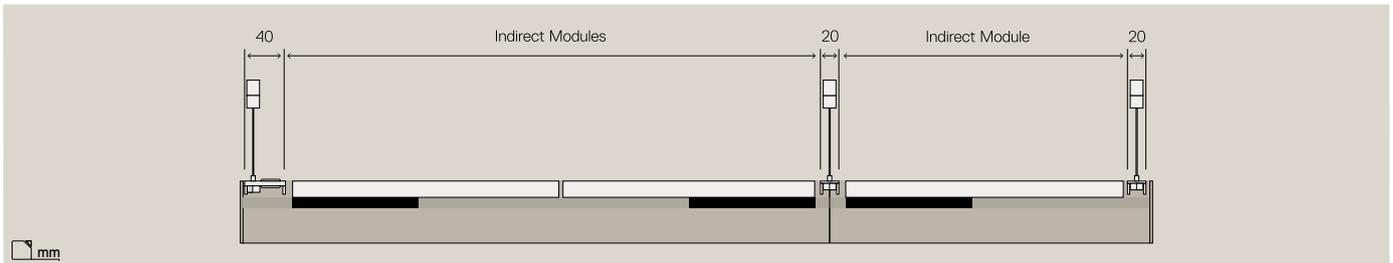
If this recommendation is not fulfilled, there will be a need to make a detailed study, to ensure that there are no mechanical conflicts.



05 / Rules and warnings

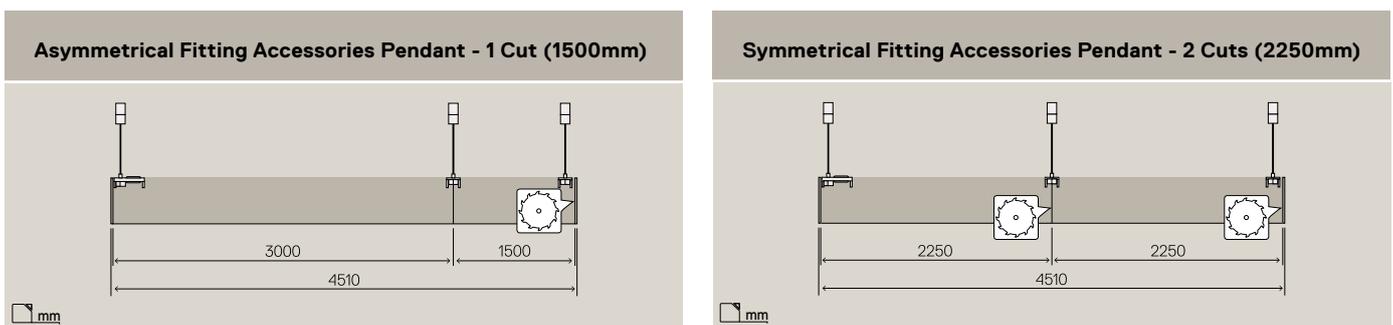
Indirect Modules

Indirect Modules must be installed between the Fitting Accessories Pendant.



Structure Segments Cutting

If you are planning a Sys Pendant or Pendant direct/indirect you must check the different Structure segments dimensions. The Fitting Accessories Pendant must be coincident with the joints of the different Structure segments, so if you want symmetrical distances between Fitting Accessories Pendant, you may need more than one Structure segment cutted.

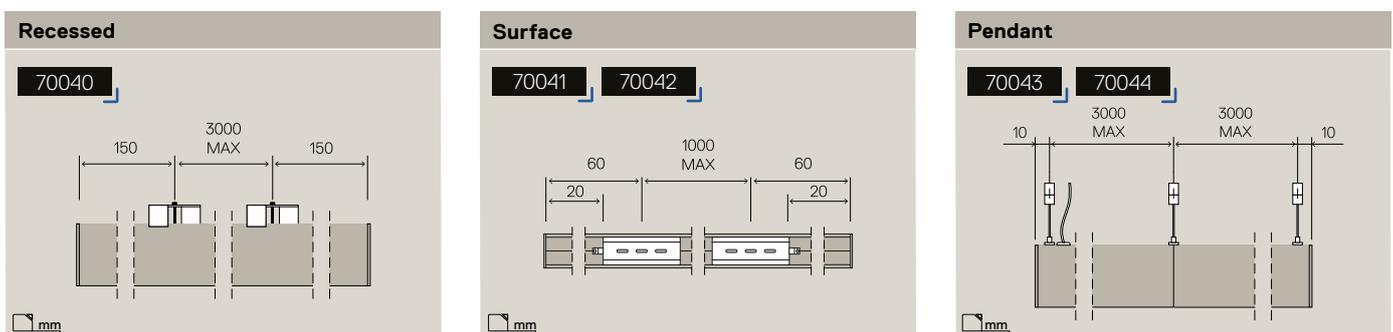


Static load

When planning a Sys, the static load of the system must be considered.

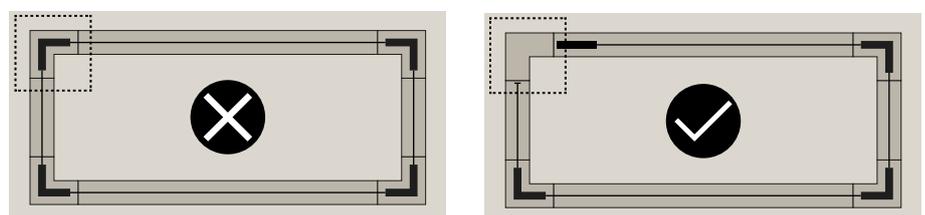
As long as only Sys Light modules are used, complying with the specified distances between fixing points is sufficient.

In specific cases, it may make sense to check the static situation and possibly add additional fixing points. <?xml version="1.0" encod-



Closed circuits

Like the "DA" conductors in DALI control systems, the "48Vdc" conductors in low voltage systems must not form electrically closed circuits, otherwise operating faults may occur. For this reason, interrupt a closed "48Vdc/DA" circuit at the connection point, e.g., by omitting the electrical connector at a joint (structure connector).



06 / Specify and Order

Premium services

Sys Structure segments can be shorten onsite. You can order a Cutting service from O/M, if necessary.

O/M also offer a Sys Planning service, that can be ordered for each Sys configuration, which includes:

- The study all the parts needed
- Technical drawings, approval requests and revisions if necessary
- The parts list and quotation
- Set up of all the parts, including cutting the structure segments and blind modules to the required dimensions

If you choose to plan and install a Sys without ordering our Cutting and Planning services, make sure you consult and fulfils all the information available on our website, specifically the Planning Guide and the Installation Instructions.

For more information contact us:

support@om-light.com

Part list examples

The part list and the planned Sys layout forms are an important basis for the later installation and possible extensions or modifications of a Sys.

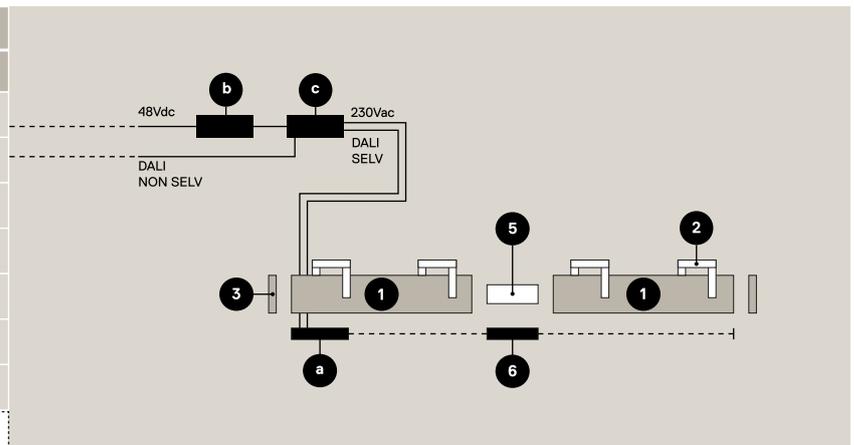
We have put together three examples of common Sys configurations for you.

The number of Fitting accessories depends on the specific size and load of the system.

The examples below show minimum configurations for a DALI controllable system.

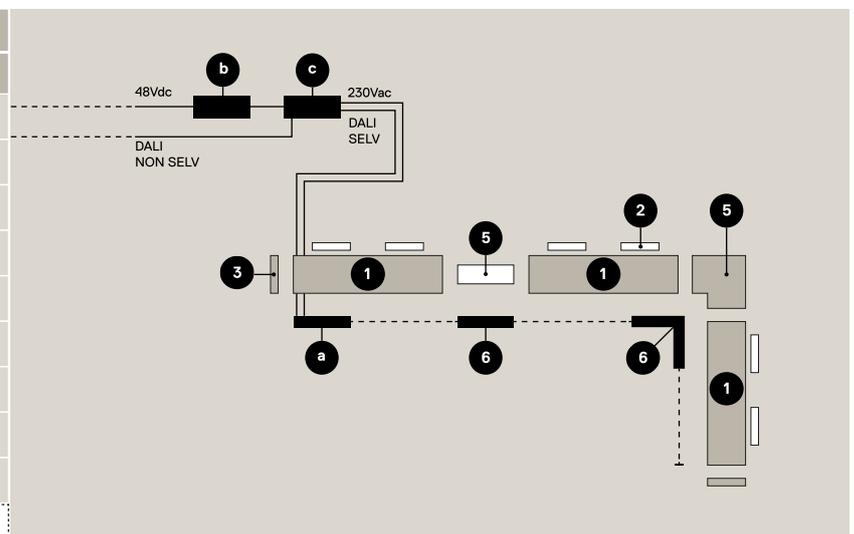
Component List (Sys Recessed, linear, black)

| | Code | Description | Qty. |
|---|----------|-----------------------------|------|
| 1 | - | Structure segment | 2 |
| 2 | 70040 | Fitting accessory | 4 |
| 3 | 70006.02 | End Caps (Set of two) | 1 |
| 5 | 70009.02 | Structure Connector Linear | 1 |
| 6 | 70024.02 | Electrical Connector Linear | 1 |
| a | 70023.02 | End-feed | 1 |
| b | - | Power supply | 1 |
| c | 70050 | Opto-Insulator | 1 |



Component List (Sys Surface, L, white)

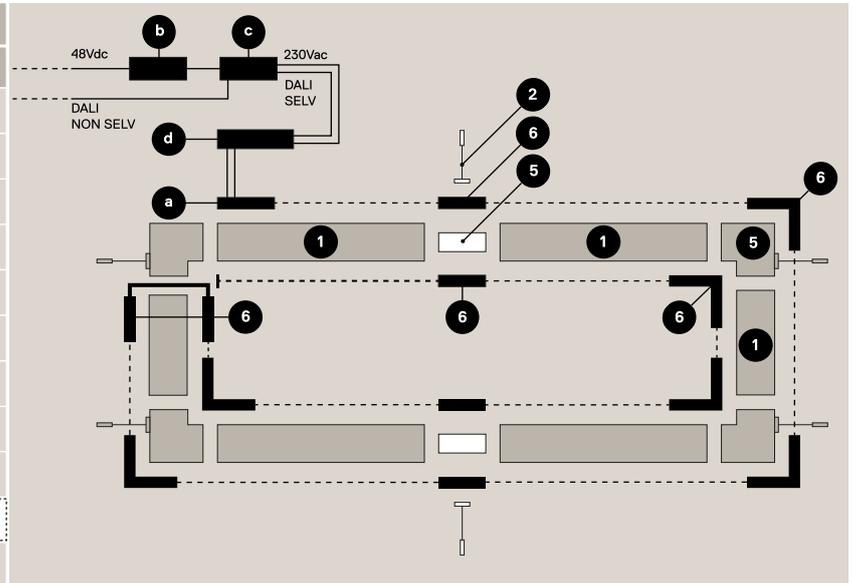
| | Code | Description | Qty. |
|---|----------|-----------------------------|------|
| 1 | - | Structure segment | 3 |
| 2 | - | Fitting accessory | 6 |
| 3 | 70007.01 | End Caps (Set of two) | 1 |
| 5 | 70009.01 | Structure Connector Linear | 1 |
| 6 | 70024.01 | Electrical Connector Linear | 1 |
| 5 | 70013.01 | Structure Connector Corner | 1 |
| 6 | 70025.01 | Electrical Connector Corner | 1 |
| a | 70023.01 | End-feed | 1 |
| b | - | Power supply | 1 |
| c | 70050 | Opto-Insulator | 1 |



06 / Specify and Order

Component List (Sys Pendant D/I, square, black)

| | Code | Description | Qty. |
|---|----------|---------------------------------|------|
| 1 | - | Structure segment | 6 |
| 2 | - | Fitting accessory | 2 |
| 5 | 70011.02 | Structure Connector Linear | 2 |
| 6 | 70024.02 | Electrical Connector Linear | 4 |
| 5 | 70014.02 | Structure Connector Corner | 4 |
| 6 | 70025.02 | Electrical Connector Corner | 6 |
| 6 | 70028.02 | Electrical Connector Adjustable | 1 |
| a | 70023.02 | End-feed | 1 |
| b | - | Power supply | 1 |
| c | 70050 | Opto-Insulator | 1 |
| d | 70051.02 | Linear ceiling base | 1 |



! O/M does not provide on-site fixing materials.

These are the responsibility of the client/installer and must comply with building legislation requirements.