# Planning aid for ERCO Hi-trac



A guide for all lighting designers and technicians wanting to discover the possibilities of ERCO Hi-trac track and light structure

# Planning aid for ERCO Hi-trac



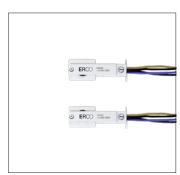
Installation

7



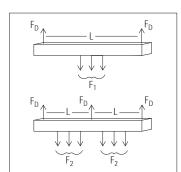
Hi-trac luminaires

13



**Electrical installation** 

15



Static load

20

# An overview of our track



# F

# ERCO Hi-trac and light structure

#### For higher loads

Hi-trac and light structures are a heavy-duty track infrastructure for suspending spotlights, downlights, wallwashers and pendant luminaires. The Hi-trac profiles with wide spans of up to 12ft (3.6m) are particularly recommended in rooms with just a few available suspension points. Two variants of the Hi-trac profile are available: either with an empty upper profile for further cable routing or with indirect luminaires for illuminating ceilings.

# ERCO track, flanged track and singlet

#### Classic application

ERCO track is the flexible and sustainable infrastructure for spotlights, downlights, wallwashers and pendant luminaires. The track can be fixed to ceilings and walls and luminaires can be moved or replaced with ease. Luminaires from other manufacturers can also be used in ERCO track – appropriate adapters as OEM components are available from FRCO.

# ERCO Minirail 48V track and singlet

#### Miniaturized infrastructure

With Minirail 48V, ERCO offers a miniaturized alternative to the classic ERCO track as the basis for flexible, space-saving lighting installations. Minirail 48V with a profile width of just 7/8" (22mm) is ideal for all situations requiring the smallest possible system dimensions, whether for aesthetic or technical reasons.

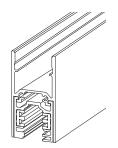
	Hi-trac	Track and flanged track	Minirail 48V
Versions	Track Track with indirect distribution luminaire	Track Flanged track Singlets	Track Singlet
Types of mounting	Pendant	Surface-mounted Recessed flanged Recessed flush (with plaster trim profile)	Surface-mounted Recessed flanged Recessed flush (with plaster trim profile) Pendant
Control options for luminaires	Switchable Phase dimmable Casambi Bluetooth 0-10V (via bridge) Zigbee DALI and DMX options on request	Switchable Phase dimmable Casambi Bluetooth 0-10V (via bridge) Zigbee DALI and DMX options on request	Switchable Casambi Bluetooth 0-10V (via bridge) Zigbee DALI and DMX options on request
Width x height	1 1/2" x 2 7/8" (38 x 72mm)	1 5/16" x 1 3/8" (33.5 x 34mm)	7/8" x 5/8" (22 x 16mm)
Length	Track 8ft (2438mm) 12ft (3657mm) (can be shortened on site)	4ft (1219mm) 8ft (2438mm) 12ft (3657mm) (can be shortened on site)	3.28ft (1000mm) 6.56ft (2000mm) 9.84ft (3000mm) (can be shortened on site)
Accessories	Suspension equipment Connectors Mounting components Display hook	Suspension equipment Plaster trim profile Connectors Mounting components Display hook	Suspension equipment Plaster trim profile Connectors Mounting components

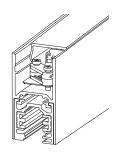
# Planning aid for ERCO Hi-trac

ERCO Hi-trac system and accessories – a manufacturer-independent global standard.

#### Hi-trac track

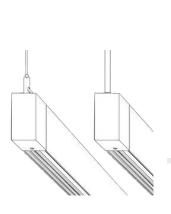
The Hi-trac track consists of the Hi-trac profile and an inserted ERCO track. Due to the H-shape of the profile, it is especially suitable for systems with wide load-bearing distances and can also accommodate power cables and data cables. The integrated track has the same connections and control options as the ERCO track.





#### Hi-trac luminaire

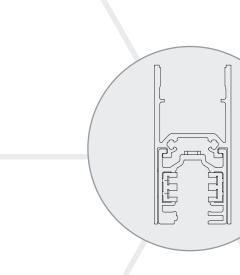
The Hi-trac luminaire consists of the Hi-trac track with an integrated indirect distribution luminaire. The indirect lighting to the ceiling creates a pleasant lighting atmosphere and reduces contrasts in the room.



## Wire rope or pendant tube

enable solid attachment to the ceiling and are available as accessories. The pendant tube enables discreet power supply of the Hi-trac system.

Hi-trac is only suitable for suspended mounting.





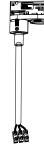
## Electrical and mechanical connectors

provide the power supply and enable control types such as phase dimming, Casambi and Zigbee. Mechanical connectors take the weight load and enable line, L, T and X geometries.



#### ERCO accessories

Decorative hooks extend the range of applications.



#### Adapter for pendant luminaires

Use our track as a high-quality infrastructure, and not only for ERCO luminaires. We supply turning adapters for pendant luminaires as OEM components to other luminaire manufacturers.

Rely on a global, manufacturer-independent standard

# Benefit from a long-term investment



## Proven, future-proof and manufacturer-independent

ERCO Hi-trac has been used around the globe for decades. An important plus: new spotlights mechanically fit into existing systems and luminaires put in operation years ago can be used in new systems. ERCO also offers adapters as OEM components for any other luminaire manufacturer.



#### Extremely stable and durable

ERCO track is manufactured from high-quality aluminum in the ERCO light factory in Germany. Simply install lengths up to 12ft (3657mm) in a single piece. The spotlight adapters are similarly robust: designed for continuous use, they are not damaged by frequent insertion and removal.

#### Gain planning security



request.





0-10V, Casambi Bluetooth, phase

dimming or simply switch on and

ERCO track can be used to implement

DALI or DMX options are available on

all common types of control.



# **HCL**

## IICL

# Support of Human Centric Lighting concepts Thanks to automated dimming and

individual operation, the lighting can be flexibly controlled via the track. Motion sensors and control via Casambi Bluetooth make it possible to adjust the lighting according to personal preferences.



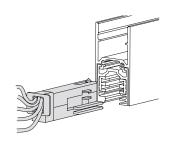
## Straight ahead, around the corner or as a geometric shape?

Design your track system without restrictions: L, X and T connectors and the electrical feedings enable diverse geometries. Suitable components are specified as accessories on the data sheet of the Hi-trac track.

# Save time and effort through simple mounting



# Simply cut to size and install on site ERCO Hi-trac is easily cut to size to the nearest millimeter on site using a miter saw. There is no danger of damaging the conductor paths in the process.

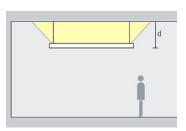


#### Simple mounting

The mechanical connectors and electrical feedings allow easy and quick installation on site. The mechanical coding prevents components from being incorrectly fitted together.

#### Seven steps to your track project

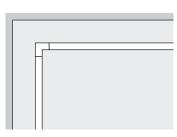
Step 1: The right arrangement



In museums and galleries, track usually runs parallel to the walls. For uniform wallwashing, you can apply approx. one third of the wall height as wall spacing; for accent lighting, the 30° museum angle helps with positioning.

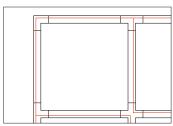
In offices, track often runs parallel to the alignment of the desks. Hi-Trac as a light structure also offers an integrated luminaire for illuminating the ceiling.

Step 2: Plan the layout



Draw the track layout in the ceiling plan of the room. Take into account that a single Hi-trac luminaire has a fixed length of 6.56ft (2000mm)

Step 3: Draw in the protective conductor



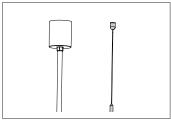
Draw in the protective conductor in your plan, e.g., as a red line, in order to correctly create the electrical connections later. Furthermore, this ensures that the groove is continuous as far as possible and that the luminaires can be aligned evenly.

Step 4: Plan the live ends and connectors



Divide the track into segments depending on length and geometry. Please also observe the maximum electrical load (see p. 18). Electrical feedings and connectors are available with right and left protective conductor routing (see p. 16). Hi-trac luminaires can also be connected separately via the connectors.

Step 5: Select the pendant suspensions



Choose between pendant tube and wire rope suspensions. You can also attach Hi-trac to the wall via its face end using an accessory and feed it in from there. Take into account the mechanical load on the system. (see p. 20) With Hi-trac luminaires, intermediate suspensions cannot be mounted above the luminaire.

Step 6: Specify the components



Enter the selected parts into a parts list. The accessories matching the track are specified on the data sheet of the track. The parts list and the planned track layout are an important basis for the later installation!

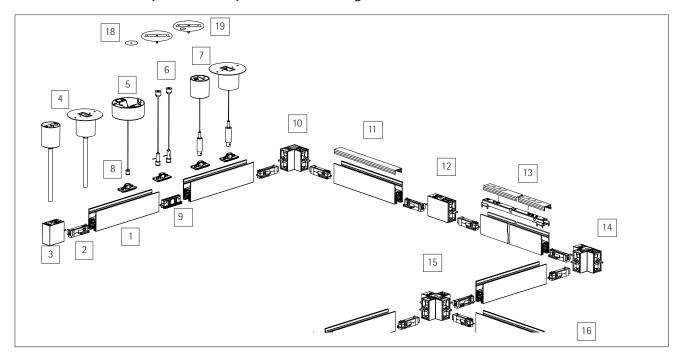
# Planning aid for ERCO Hi-trac

## System overview

The Hi-trac system is only designed for suspended mounting. See below for an overview of available components. Hi-trac always consists of the Hi-trac profile and an inserted ERCO track. The Hi-trac luminaire has an indirect distribution luminaire mounted in the upper part of the Hi-trac profile.



#### Overview of available components for pendant mounting



1 Hi-trac track	(
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2 Electrical feeding

3 Live-end housing

Pendant tube suspension with/ without mounting plate

Wire rope suspension with canopy

6 Wire rope suspension with/ without cable gland

- Wire rope suspension with canopy with/without mounting plate
- 8 Mounting device

9 Coupler

10 L-connector

11 Cover profile

12 Coupler housing

13 Hi-trac luminaire

14 T-connector

15 X-connector

16 Wall bracket

17 End plate

18 Canopy (cover) 2" for junction boxes

Canopy (cover) 5" for junction

boxes with / without cable entry

## Sample installations

#### Sample installations

As examples, we have put together three common sample installations for you. In simple linear systems, routing of the protective conductor only plays a subordinate role and only influences the mounting direction of the luminaire. As soon as you use several mechanical connectors and electrical feedings you must coordinate them with regard to the protective conductor routing marked in red. The number of fixing points depends on the specific size and load of the system.

The information below shows a minimum configuration.





#### Parts list for linear pendant mounting

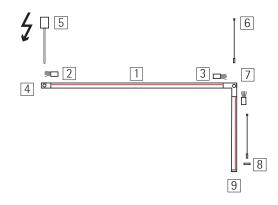
Number	Quantity	Description
1	1	Hi-trac track
2	1	Electrical feeding right
4	1	Live-end housing
5	1	Pendant tube suspension
6	1	Wire rope suspension
8	1	Mounting device
9	1	End plate

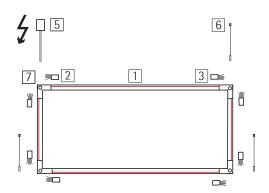
#### Parts list for angled pendant mounting

Number	Quantity	Description
1 2 3 4 5	2 2 1 1 1	Hi-trac track Electrical feeding right Electrical feeding left Live-end housing Pendant tube suspension
б 7	2 1	Wire rope suspension L-connector
8	1	Mounting device
9	1	End plate

#### Parts list for rectangular pendant mounting

Number	Quantity	Description
1	4	Hi-trac track
2	4	Electrical feeding right
3	4	Electrical feeding left
5	1	Pendant tube suspension
6	3	Wire rope suspension
7	4	I-connector

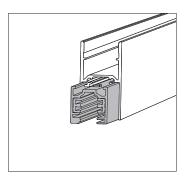




## Typical sequence of a Hi-trac installation

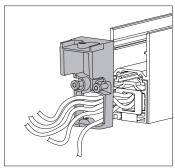
Below is some information on the typical installation procedure. Also note the following pages in this document and always follow the assembly instructions for the components.

Step 1: Prepare/pre-assemble the Hi-trac track and suspensions



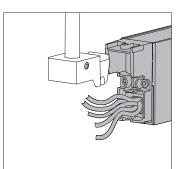
First shorten the Hi-trac profile and track to the desired length, then insert the track into the Hi-trac profile. Mount the suspensions and provide intermediate suspensions for lengths >6ft (Rule of thumb, please check for each project!) Always mount a suspension above the flush coupler. Now mount the suspension-side fixing parts of the connector to the suspensions.

Step 2: Mount the electrical feedings and fixing parts on the track side



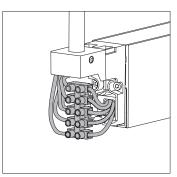
For each track section, except for the end section, you require a right and a left electrical feeding.
Up to this point the track is still free to move in the Hi-trac profile until now; only when the fixing parts of the connector are mounted will the track be fixed in the Hi-trac profile.

Step 3: Fit the Hi-trac or attach it to the mounting device of the wire rope suspension



Fit the Hi-trac track prepared in this way into the mounting pieces that you have already attached to the pendant tube or wire rope suspension. Note the position of the groove / protective conductor in the track!

Step 4: Wire the luminaires and connectors



If Hi-trac modules with integrated luminaires are used, wire these together with the connectors. Alternatively, you can also connect luminaires with a separate cable. If no luminaires are intended, you can also use the upper side of the Hi-trac track as a cable duct.

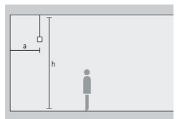
### Step 5:



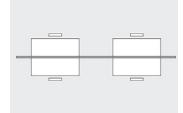
Check the system for short circuits and function and then fit the connector covers, the Hi-trac profile covers and, if required, the luminaire covers.

## Mounting

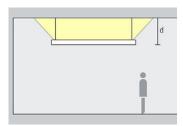
#### Mounting position



The best arrangement for track is parallel to the walls with a distance to the wall a) of 1/3 of the room height. In this way you can use spotlights and wallwashers to optimally illuminate the walls of museums, galleries and shops. If furniture such as shelves or cabinets are placed in front of the wall, the distance (a) should be modified according to the front plane of the furniture.



For optimum illumination of office workstations, it is recommended to position the track centered on the longitudinal axis of the desks.



The indirect distribution luminaire can be used to illuminate ceilings to emphasize the dimensions of high rooms. The ideal distance (d) of the light structure to the ceiling is 2.62ft (0.8m).

#### Planning and installation information



Shortening the track

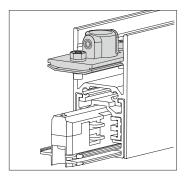
You can order track cut to size. In many cases however it is advisable to shorten standard lengths directly on site, e.g., with a miter saw. Make the cut square and clean so that there are no unsightly gaps at the joints.

Tip: shorten the Hi-trac profile and track separately. The track should be approx. 1/16" (1mm) shorter on each side than the Hi-trac profile.



Shortening the conductors

After shortening the Hi-trac track, always shorten all four conductors in the track by 1/4" (5mm) for safety reasons. The appropriate tool for this is available as an accessory. To shorten the conductor, pull the track out of the Hi-trac profile a little.



Extending the track

If you need to lengthen a track, use the coupler for flush mounting and position the mounting device with a suspension over the joint. This ensures that the coupler is not mechanically stressed, and at the same time you still have a fixing point to which you can attach on-site suspensions.



of a track for both safety and visual



## Suspensions

# Pendant tube suspensions

Concealed cable routing and high stability



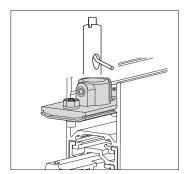
#### Concealed cable routing

Pendant tube suspensions enable discreet power supply to your system. The pendant can take a sheathed cable up to a diameter of max. 3/8" (10mm). With a 5-core connection, the individual cores are pulled through the pendant. Supply is without a cable. Pendants longer than 5ft (1.50m) are also available on request.



#### Stable mounting

With suspended track installations, a dynamic load must be taken into account in addition to the static load. A draft for example can move the system. Asymmetric loads, e.g., caused by spotlights aligned on one side, can cause the track to tilt slightly, especially with linear systems. With a pendant tube suspension you bring rigidity into the system and prevent such effects. For longer track lengths, it is recommended to install every 2nd or 3rd suspension as a pendant tube suspension.



#### Suspension from the track

The Hi-trac mounting device enables suspension directly from the Hi-trac profile. The flush coupler may only be mounted together with this mounting device and a suspension.

Rule of thumb: Hi-trac up to 6.56ft (2m) in length does not normally require intermediate suspension. For a more definitive statement, the actual load on the Hi-trac track must be determined. Information on static load can be found in the section of the same name in this document.

#### Wire rope suspensions

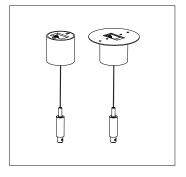
Elegant appearance and flexible use



#### Elegant appearance

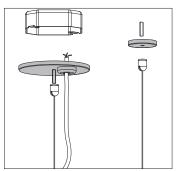
Wire ropes are hardly noticeable from a distance and lend the track system a "floating" appearance. The following versions are available:

- Wire rope suspension with canopy and feeding option for 3x1.5mm<sup>2</sup> cables. (1-circuit operation)
- Wire rope suspension with canopy and feeding option for 5x1.5mm<sup>2</sup> cables (2-circuit operation)
- Wire rope suspension with single point fixing. Discreet mounting option also for sloping ceilings
- 4. Version with rapid connector and cable gland for cables up to d 9.3mm. Supplied with 6 fixing clips You can attach all wire rope suspensions to the connectors / live-end housings. For mounting in the profile you need the Hi-trac mounting device (as accessory).



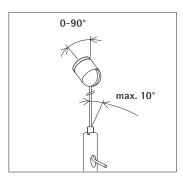
#### Wire rope suspensions with canopy

All canopy suspensions are also available with mounting plate. These can be mounted over cable outlet boxes.



#### Mounting on junction boxes

With the appropriate accessories, the wire suspensions can also be mounted on a junction box. Depending on the design, the 5" accessories are suitable for feeding. The cable cross section must be between 9.5 and 11mm (0.370" and 0.430"). The small 2" canopy can be used for covering the fixation point of the wire rope suspensions.



#### Flexible use

Single-point suspensions are suitable for sloping ceilings up to 10°. Rapid connectors ensure tool-free and particularly simple height adjustment.

## Hi-trac connectors

# Construction of the Hi-trac connectors

Hi-trac uses mechanical connectors together with separate electrical feedings



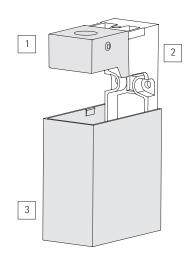
#### Mechanical connectors

Mechanical connectors consist of three components:

- Mounting piece for attachment to the suspension
- Mounting piece for attachment to the Hi-trac track
- 3 Housing cover

Mechanical connectors are available in the following variants:

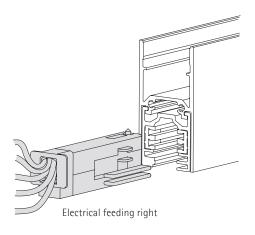
- Live-end housing
- T-connector
- L-connector
- X-connector
- Coupler housing
- Wall bracket



#### **Electrical feedings**

Electrical feedings form the center of the Hi-trac system. They are all available in a right and a left version for 2-circuit operation. They are supplied with open-ended wires and separate connection terminal.

Always insert the electrical feeding into the track before mounting the mechanical connector piece. The connection is made after mounting the Hi-trac track on the suspension.



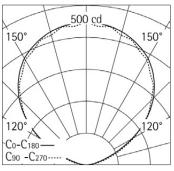
# Planning aid for ERCO Hi-trac

## Hi-trac luminaire

Hi-trac module with integrated luminaire for Human Centric Lighting (HCL) To achieve a pleasant lighting atmosphere in the room, you can supplement the spotlights and downlights for the track with the indirect distribution of the Hi-trac luminaire. The luminaire consists of the Hi-trac profile with inserted track and the luminaire itself. The electrical connection of the luminaire is made via a separate connection cable on-site or via the electrical feedings of the track.



# Possible applications and light distribution



#### Light distribution

The indirect light component lowers the contrasts in the room and is therefore just as suitable for museums as for office environments.

Specially designed ceilings, vaulted ceilings or ceiling paintings can also be ideally illuminated in this way.





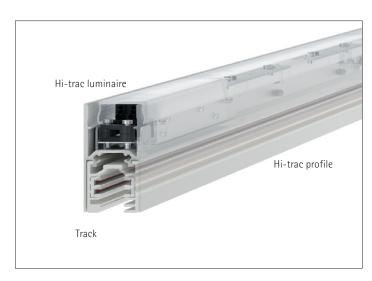
## Hi-trac luminaire

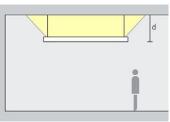
#### Notes on planning a Hi-trac luminaire

#### Planning information

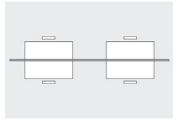
When planning, take into account that the luminaire can not be shortened. It is only available in a length of 6.56ft (2000mm).

You also cannot mount any mounting devices for a suspension above the luminaire – this is only possible via the mechanical connectors.

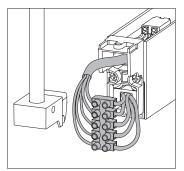




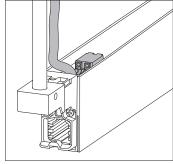
Positioning
The luminaire is designed for a pendant length (d) of approx. 2.62ft (0.8m). The pendant length should not be extended or shortened by more than 20%, as this will impose the guality of light. To avoid will impair the quality of light. To avoid light beam scallops on the wall, do not mount the luminaire directly on the Hi-trac wall fixing. Allow for a distance of approx. 1.64ft (0.5m).



For optimum illumination of office workstations, it is recommended to position the track centered on the longitudinal axis of



Electrical connection via connector Integrate the luminaire into the connector wiring.

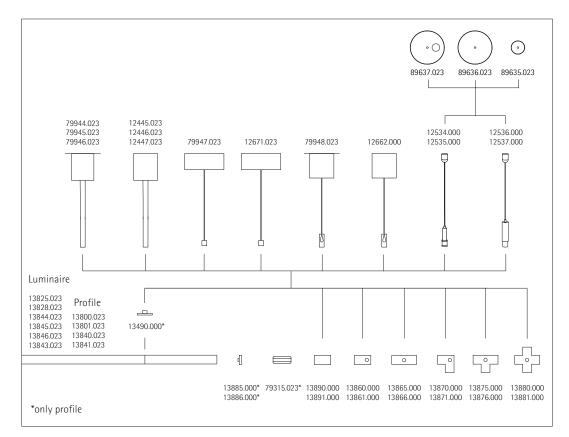


Separate electrical connection You can provide the luminaire with its own supply line. In this way the luminaire is electrically completely separate from the Hi-trac track.



Appendix: the ERCO Hi-trac system - Accessories

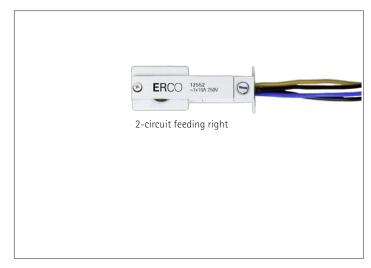
Check the possible combinations of the hi-trac accessories in the adjacent diagram.



# Planning aid for ERCO Hi-trac

## Electrical installation

The track profile of ERCO track, ERCO flanged track and ERCO track used in Hi-trac are all identical. The decisive factor for the control options is the selection and connection of the connectors in combination with the appropriate adapters and luminaires. ERCO track is suitable for 1-circuit or 2-circuit operation in the 120V mains supply. This section contains information on protective conductor routing, the electrical connection and the types of adapters that can be used.



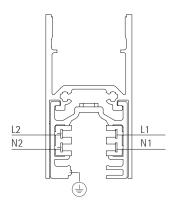
Operating mode	Circuits	Control
2-circuit	2	Switchable
		Phase dimmable
		On-board Dim
		Casambi
		Zigbee

## Electrical installation

For simple, safe mounting, ERCO tracks are coded via the routing of the earth ground. This also applies to the L- and T-connectors as well as the live end, which are available in a left and a right version according to their geometry.

Tip: in the case of simple, linear track only, plug the live end onto the track during mounting. This will ensure that the live end is on the correct side of the track later.

The L2 and N2 conductors are always on the side of the earth ground. This means a connector cannot be plugged on incorrectly and no short-circuit can occur.



## Right or left?

How to clearly identify the required electrical feedings.

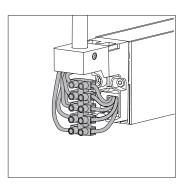
#### Live end

The definition "right" or "left" is made looking from the track to the feeding.





#### Wiring the feedings

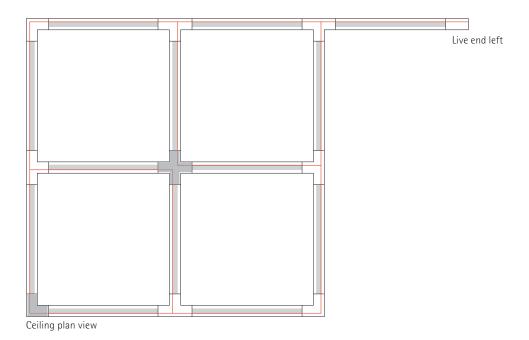


The Hi-trac electrical connectors must be wired manually. Use the colors of the conductors as a guide. The protective conductor must always also be connected to the connector itself. Observe the corresponding mounting instructions.

## Electrical installation

#### **Planning**

The electrical feedings are wired in the connector housings. As a rule of thumb, you need one right and one left feeding for each track section. Especially for larger systems it is advisable to plan the system carefully and comprehensibly so that the wiring can be carried out easily and safely.



#### Proceed as follows

 First sketch the track system in top view with all track and connecting parts and without protective conductors. Give the track and connectors a width that allows you to add the protective conductor routing in the next step.

**Tip:** if there is a preferred viewing position, the groove should be on the side of the viewer.

 Now draw in the protective conductor (on the side of the groove), e.g., as a red line. Start on the long side of a T-connector (if used) and draw the protective conductor as a continuous connection.

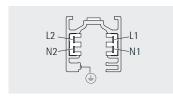
## Electrical installation

#### Connection

In terms of electrical planning, track, flanged track and Hi-trac tracks are the same.

ERCO track can be operated in the 1/2-circuit 120V mains supply and the circuit is selected by rotation of the complete luminaire.

#### 1/2-circuit operation



#### Connection

L1 Load circuit 1N1 Neutral conductor 1L2 Load circuit 2

N2 Neutral conductor 2 PE Protective conductor

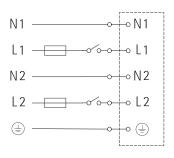
#### Supported control types

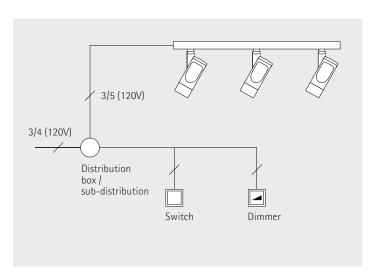
Switchable
On-board Dim
Phase dimmable
Casambi Bluetooth
O-10V (with bridge)
DALI or DMX control options on request

#### Suitable adapters

2P adapter 2P turning transadapter







#### Notes on installation:

- Take into account conductors of the track with a cross-section of approx. AWG 12 (4mm<sup>2</sup>).
- The connection terminals of the live ends or connectors can each accept two conductors with a cross-section of up to AWG 14 (2.5mm²). Through-wiring is thus possible.
- The connectors do not have strain relief. If required, this should be provided on site e.g., with a suitable screw connection.
- The live end has a cable entry from the side and an entry from the top.
   The connectors can only be fed from above.

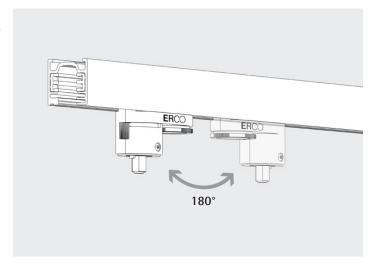
# Planning aid for ERCO Hi-trac

## Electrical installation

Adapters for ERCO track and flanged track used on ERCO luminaires

All ERCO adapters are mounted in the track without tools. The necessary electrical connection of the track differs according to the control type of the luminaire.

Circuit selection is possible by turning the adapter (luminaire) by 180°.



#### Adapter types



2-circuit turning adapter 2-circuit adapters establish the electrical and mechanical connection to the luminaire. Luminaires with this adapter are suitable for mounting in the ERCO singlet.



ERCO turning transadapter ERCO transadapters contain the control gear of the luminaire. For phase dimmable luminaires, the adapter also includes the controller for On-board Dim. Due to its dimensions, luminaires with this adapter are not suitable for mounting in the ERCO singlet.

# Adapter for pendant luminaires



2-circuit turning adapter kit for pendant luminaires
2-circuit adapters establish the electrical and mechanical connection to the luminaire. The adapter is suitable for mounting in the ERCO singlet.

Electrical load: max. 120V / 6A Mechanical load: max. 7.25lbs (3.3kg)

# Planning aid for ERCO Hi-trac

## Static load

When planning a Hi-trac system, determination of the static load is important. It has a direct influence on the fixing points and on the subsequent equipping with luminaires. To avoid re-working, you should also take into account any planned future changes.



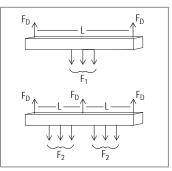
The maximum permissible weight load of the track results from the maximum permissible deflection of the profiles and the maximum permissible load of the suspensions. The load distribution is composed of the system's own weight and evenly distributed individual loads (point loads). You can determine the maximum permissible weights using the adjacent illustration and associated table

Here are the necessary parameters

L f <sub>e</sub>	(ft / mm) (ft / mm)	Length Deflection due to
$F_{D}$	(lbs / kg)	weight of profile Max. load of one suspension
F <sub>e</sub> F <sub>1</sub>	(lbs / kg) (lbs / kg)	Weight of profile Max. permissible load with two-point suspen
		sion and permissible deflection (L/250) of
$F_2$	(lbs / kg)	4mm per meter length Max. permissible load with multi-point sus- pension and permissibl deflection (L/250) of 4mm per meter length

ER(	CO Hi-trac (ft) (mm)	6 1829	8 2438	12 3657
Fe	(lbs)	9.28	12.70	18.56
	(kg)	4.21	5.61	8.42
fe	(inch)	0.02	0.11	0.33
	(mm)	0.52	2.56	8.40
FD	= 44.06lbs (	20.00kg	)	

F1	(lbs)	79.36	44.09	16.53
	(kg)	36.00	20.00	7.50
F2	(lbs)	35.27	30.86	16.53
	(kg)	16.00	14.00	7.50



#### Sample calculation

See below how to apply the load tables.

## Determining the maximum number of luminaires for a given track length

A Hi-trac track of length 12ft and suspended at 3 points is to be fitted with Eclipse size L. .What is the maximum number of luminaires that can be mounted on this track? Proceed as follows:

# 1. Determine the weightsWeight of 1 luminaire5.29lbsWeight of track (Fe)18.56lbs

## 2. Number of suspensions and distances

Number of suspensions	3
Distance between	
suspensions (L)	6f

## 3. Maximum weight between 2 suspensions with L=6ft

According to load table (F2): 35.27lbs less track (Fe: 6ft) 9.28lbs Remaining for luminaires 25,99lbs 4. Determine the maximum number of luminaires

At 5.29lbs/luminaire 5 luminaires For the complete track 10 luminaires

#### Result

A maximum of 10 luminaires can be installed here.

