



ERCO track and singlets – Supporting role

ERCO track deliver the energy required to light up rooms

ERCO track is more than a power source. The system provides a flexible infrastructure for luminaires, DALI or standard, that can move with your changing requirements. Track are the anchor for your lighting concept and are primarily designed for mounting on ceilings or walls, whereas the flanged track is designed for suspended ceilings or flush mounted using a plaster trim profile. Individual track lengths can be connected with each other so as to form rectangular and other shapes.

ERCO track and singlets



Structure and characteristics

The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website.

1 Aluminium profile

- White (RAL9002), black or silver
- Powder-coated or anodised
- Track mounting surface with easy to remove knockouts at 0.4m intervals
- Flanged track: flanges for ceiling panels

2 Contacts

- 4 isolated copper conductors
- When used as DALI track: 1 16A circuit and 2 conductors for connecting to the DALI data line
- When used as 3-circuit track: three separately switchable circuits, 16A each

3 Earth conductor

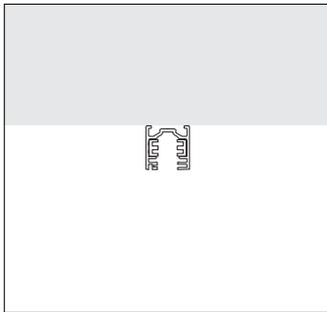
Variants on request

- Housing: 10,000 further colours
- Please contact your ERCO consultant.

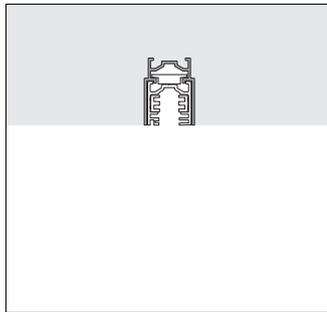


Design and application:
www.ercos.com/ercos-track

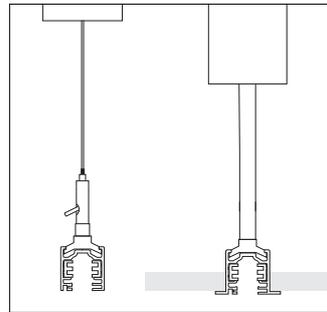
ERCO track and singlets



Structure
Track can be easily mounted to ceilings and walls as a surface-mounted variant.



Recessed
A plaster trim profile is available as an accessory for flush mounting in the ceiling or wall.



Suspension equipment
Track can be simply suspended from the ceiling. Wire suspensions are ideal for sloping ceilings and pendant tubes are suitable for high loads.



Gap-free mounting using connection components
The track and light structures can be connected to form straight lines with gap-free couplings or assembled to make right-angled structures with connecting parts.

Special characteristics	
	Recessed
	Structure
	Suspension equipment
	Continuous line arrangements are possible

	Various housing colours		Switchable
	Various construction sizes		DALI dimmable
	Easy installation		
	Accessory for mounting variants		

ERCO track planning aid

Focus on mounting and accessories
ERCO's differentiated product range has stood the test even in special situations – from planning complex light structures to meeting high load requirements.

The earth conductor in ERCO track systems is set in the lower profile edge. When selecting live end, L- and T-connectors, it must be ensured that the continuous line is not interrupted. The position of the earth conductor is established by the orientation of the track system.

Definitions

Live end

Earth conductor left:
When looking up into the track towards the live end, the earth conductor is on the left.

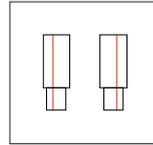
Earth conductor right:
When looking up into the track towards the live end, the earth conductor is on the right.

T-connector

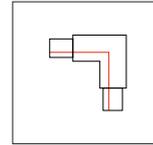
Earth conductor left:
The earth conductor is on the left when looking across the T towards the leg.

Earth conductor right:
The earth conductor is on the right when looking across the T towards the leg.

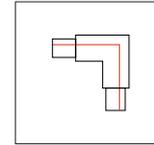
The earth conductor is always positioned on the outside of the T-bar.



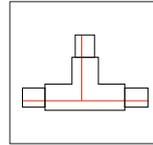
Live end
Earth conductor left
Earth conductor right



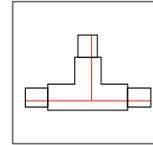
L-connector
Earth conductor inside



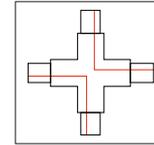
L-connector
Earth conductor outside



T-connector
Earth conductor left



T-connector
Earth conductor right

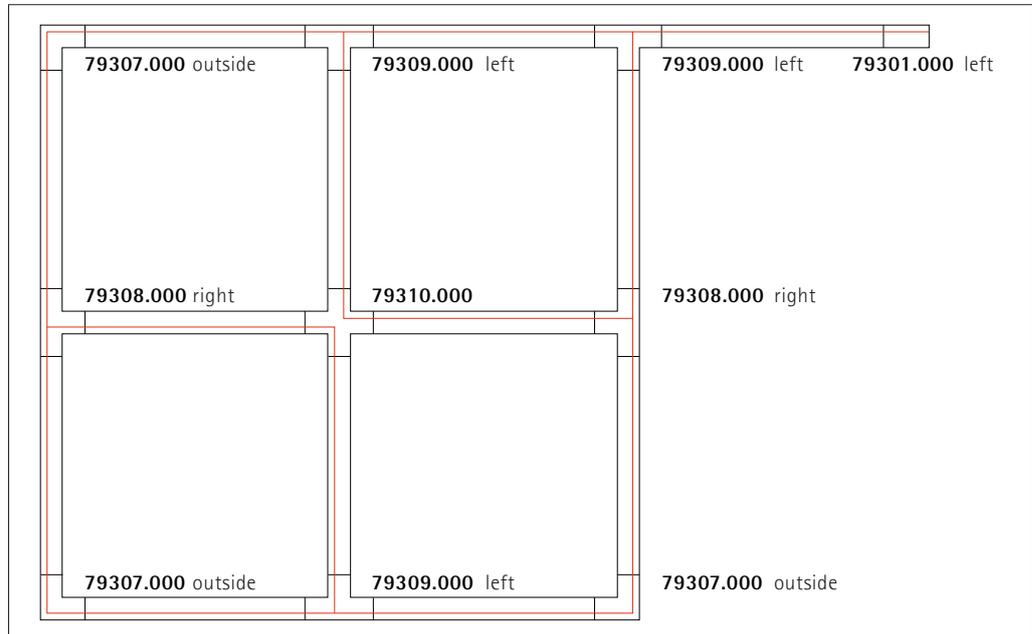


X-connector



Gapless mounting with connectors

The track and light structures can be connected in straight lines using gapless couplers or mounted at right angles with connectors. When planning the track system, all track and connectors are initially outlined in top view without earth conductors. Starting with a T-connector, the earth conductors are then sketched as a through connection. The above definitions of earth conductor left/right will help to compile a list of required connectors for ordering. The drawing on the right illustrates an overview of article numbers.



Mechanical information

Horizontal ceiling mounting:
All luminaires that are approved for the ERCO track system can be used.

Horizontal mounting on walls:
only luminaires with a maximum weight of 2kg may be used. Follow the mounting instructions of the luminaire.

Vertical mounting on walls:
The guiding groove on the track profile must be facing to the right.

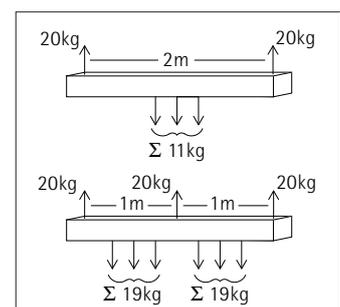
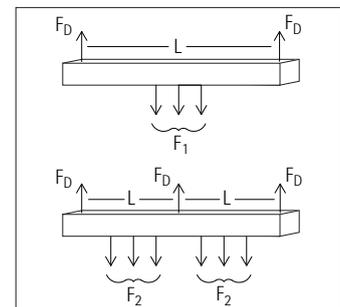
Other mounting methods:
see the product documentation for information on the limited use of luminaires.

Permissible loading is calculated from the max. permissible profile deflection and the max. permissible mechanical loading of the suspension devices. Load distribution takes both the weight of the system and the equally distributed point loads into consideration.

L (mm)	length
f _e (mm)	deflection due to weight of profile
F ₀ (kg)	max. loading of suspension device
F _e (kg)	weight of the profile
F ₁ (kg)	maximum permissible load for two-point suspension and permissible deflection (L/250) of 4mm per metre length
F ₂ (kg)	maximum permissible load for series suspension and permissible deflection (L/250) of 4mm per metre length

ERCO track

L (mm)	1000	2000	3000	4000
F _e (kg)	1.1	2.2	3.3	4.4
f _e (mm)	0.07	1.09	5.50	17.40
F ₀	= 20kg			
F ₁ (kg)	39	11	3	—
F ₂ (kg)	19	11	3	—



ERCO track planning aid

Flexible use

You can use ERCO track with various types of control. The same rail profile is wired for conventional multi-phase installations, DALI applications and Multi Dim applications.

In the conventional multi-phase installation with 3 load circuits/control circuits, up to 3 phases can be connected and fused with a maximum of 16A each.

For DALI installation, 1 load circuit with max. 16A is available.

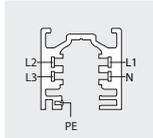
When using luminaires with Multi Dim, 1 load circuit with 16A is also available. 2 control circuits are available for phase dimming or Push Dim operation.

For the electrical connection, all connecting parts are available either for 3-circuit/Multi Dim installation or for DALI applications.



Connection variants

ERCO Track for 3-circuit installation



Connection

L1 load circuit / control circuit 1
L2 load circuit / control circuit 2
L3 load circuit / control circuit 3
N neutral conductor
PE protective conductor

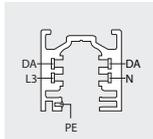
Possible control types

Switchable
Phase dimmable
Casambi Bluetooth
Zigbee
On-board Dim

Suitable adapters

3-circuit adapter
Transadapter
Intrack adapter (only switchable, Casambi Bluetooth, Zigbee, On-board Dim)
Intrack adapter for 48V luminaires

ERCO track for DALI installation



Connection

DA DALI
DA DALI
L3 load circuit
N neutral conductor
PE protective conductor

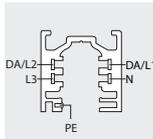
Possible control types

DALI
On-board Dim

Suitable adapters

DALI adapter
DALI Transadapter
Intrack adapter (only DALI setting with Multi Dim)

ERCO track for Multi Dim installation with phase dimming / Push Dim / DALI



Connection

L1 DALI control circuit 1
L2 DALI control circuit 2
L3 load circuit
N neutral conductor
PE protective conductor

Possible control types

Multi Dim
Multi Dim + On-board Dim
DALI

Suitable adapters

Intrack adapter (with Multi Dim)
DALI adapter
DALI Transadapter



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

3-circuit adapter

3-circuit adapters establish the electrical and mechanical connection to the luminaire, and enable selection of the switching/load circuits of which a maximum of three are available. Phase selection is already possible with the installed luminaire.

DALI adapter

DALI adapters can be operated in a track for DALI installations. One load circuit is available.



ERCO Transadapter

ERCO transadapters contain the control gear of the luminaire and are used in various sizes and designs. For phase dimmable luminaires, the adapter also includes the controller for On-board Dim. In contrast to the 3-circuit adapters, phase selection is carried out before insertion into the track. As with the 3-circuit adapter, the transadapter offers the possibility of operating with 3 circuits/load circuits.

DALI Transadapter

DALI adapters can be operated in a track for DALI installations. One load circuit is available.

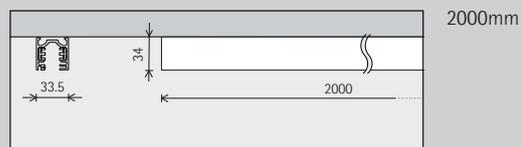
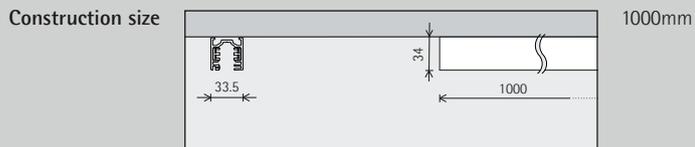
Intrack Adapter

Intrack adapters contain the power supply for the luminaire and disappear completely into the track. As with the 3-circuit adapters, they enable the operation of three control circuits/circuits.

Intrack Adapter Multi Dim

Intrack adapters with Multi Dim provide one load circuit that requires a permanent phase on L3, similar to the DALI application. Depending on the operating mode, this adapter enables the control modes DALI and Push Dim or phase dimmable with 2 control circuits

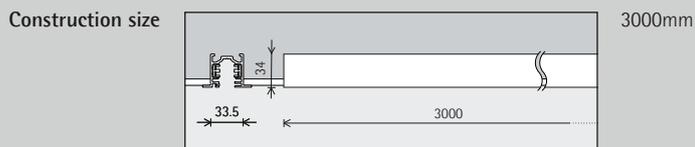
ERCO track and singlets



Colour (housing)

	White		Silver
	Black		10,000 colours *

ERCO flanged track

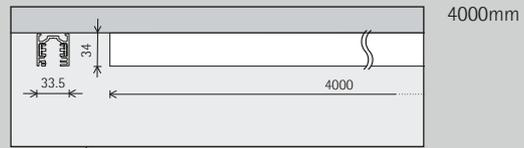
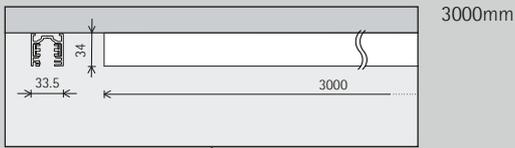


Colour (housing)

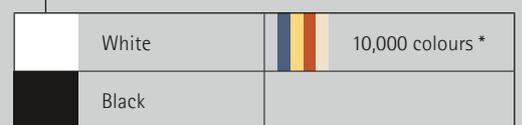
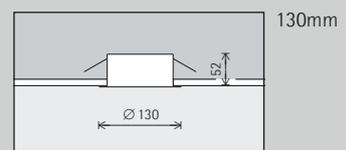
	White		Silver
	Black		10,000 colours *

Accessories

	3-circuit connection components		Suspension equipment		Adapter
	DALI connection components		Mounting components		Plaster trim profile



ERCO singlets



* available on request

Article numbers and planning data:
www.erco.com/011280

Design and application:
www.erco.com/erco-track



