

Rail System LED

Pre-wired supporting profile + SD lighting module

Continuous-row system with pre-wired modular track. A single supporting track is the basis for installing both the three-phase binary and the specific lighting module, available with 7 different optics to meet most lighting needs in small and large scale retail, offices and industrial applications. The pre-wiring of the channel uses 7 poles: 3 phases – Neutral-Pet (earth) – Emergency lighting – DALI BUS. Every components is made of extruded aluminium with high-precision inserts and mechanical locking. Guaranteeing extremely quick installation, the range allows scope for every level of system complexity and any type of continuous-row routing.

The operation of the Opticom system requires a radio module and smart photosensor, which can work either in auto-dimming mode or directly commanded via a smartphone to adjust the brightness intensity with the exposed device. LED Rail System can also be controlled via WiFi, thanks to the optional domotic control unit that also enables all the operating modes envisaged by the Smart Driver (SD) protocol.

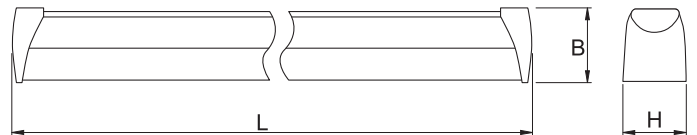


GENERAL CHARACTERISTICS

- Equivalent Power*** 2x 18, 2x 80 W
- Power supply** Universal Multi Voltage
93–265 V_{AC} 50/60 Hz
176–250 V_{DC}
- Standard** EN 60598-1, EN 60598-2-1,
EN 60598-2-22 (fundamental
requirements), EN62471
(Photobiological hazard)
- Protection grade** IP40
- Working temp.** -20 °C ÷ +40 °C
- Mounting** suspension with steel cable,
suspension with chain, ceiling-mounting
with bracket rail on ceiling or bracket rail
with special slats
- Body** extruded aluminium RAL 9010
- Optic** transparent polyamide PMMA
- Power supply** Electronic SD (cos $\varphi \geq 0.96$)
Electronic intelligent dimming system
- MTFB Control gear**** 80 000 h
- Luminous flux maintenance**** >60 000 (L80B20)
- Colour deviation** 3 SDCM

* Equivalent power for comparison with fluorescent tube fixtures

** At environmental reference temperature of 25 °C



W	L	• Dimensions (mm) •		Weight kg
		B	H	
2x 80	1 416	73	80	3.6
2x 18	568	73	80	1.7

INVERTER

EMERGENCY WITH LED INVERTER



	19358	INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V	to be ordered separately
	19359	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V	to be ordered separately
	19364	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
	19365	INV LED IP65 LGFM 123H (addressable)	to be ordered separately

Building automation

to be ordered separately

Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE
15035	OPTICOM AUTODIMMER SENSOR RAIL

SPECIAL VARIANTS: COLOUR RENDERING ≥ 90 , COLOUR TEMPERATURE ON REQUEST, IP54 VERSION ON REQUEST

Contact the Beghelli sales network

**DOMOTIC
RADIO
MODULE**

**1÷10V
MODULE**

**DALI
MODULE**

**PLUG&LIGHT
MODULE**

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY



INTELLIGENT PHOTOSENSOR

1.

**Autodimmer
Natural Light**

2.

**Autodimmer
Dynamic Light**

3.

**opticom
TECHNOLOGY**

**Smartphone Interface
to control and set up system**



CEILING AND SUSPENDED

CEILING MOUNTING



14537 RAIL CEILING BRACKET

to be ordered separately

SUSPENDED MOUNTING



14534 RAIL BRACKET SUSPENS WIRE 3M

to be ordered separately



14535 RAIL BRACKET SUSPENS CHAIN 3M

to be ordered separately

CLOSURE HEAD



14532 RAIL HEAD

to be ordered separately

14580 RAIL HEAD DOUBLE ARC

to be ordered separately

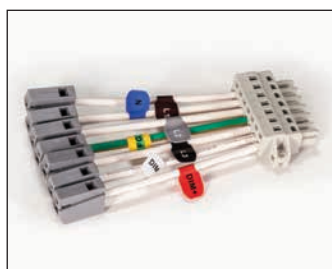
CEILING MOUNTING



14536 RAIL SURFACE BRACKET

to be ordered separately

7-POLE ASSEMBLY SYSTEM

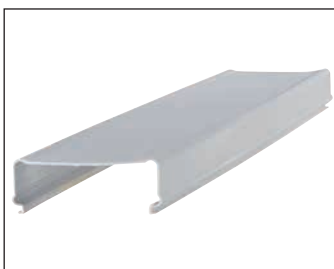


14530 RAIL POWER 7 WIRE

to be ordered separately



COVERS



14533 RAIL COVER PC 1500

to be ordered separately

14539 RAIL COVER PC 600

to be ordered separately


Base components

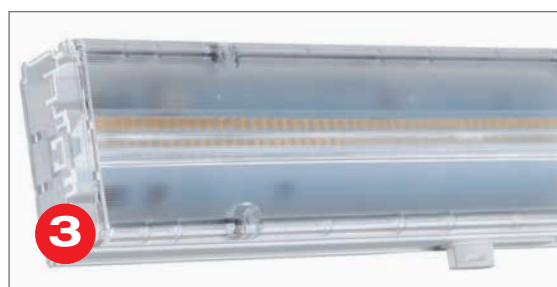
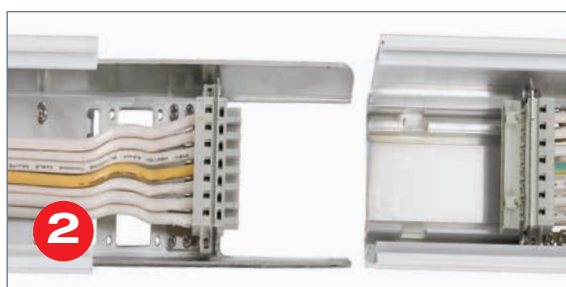
Rail System Led is an advanced track system with a host of possible variants that make it extremely versatile, suitable for all types of use



- 1 Electrified tri-phase rail**
or recessed installation within the supporting profile, can accommodate floodlights of various power levels

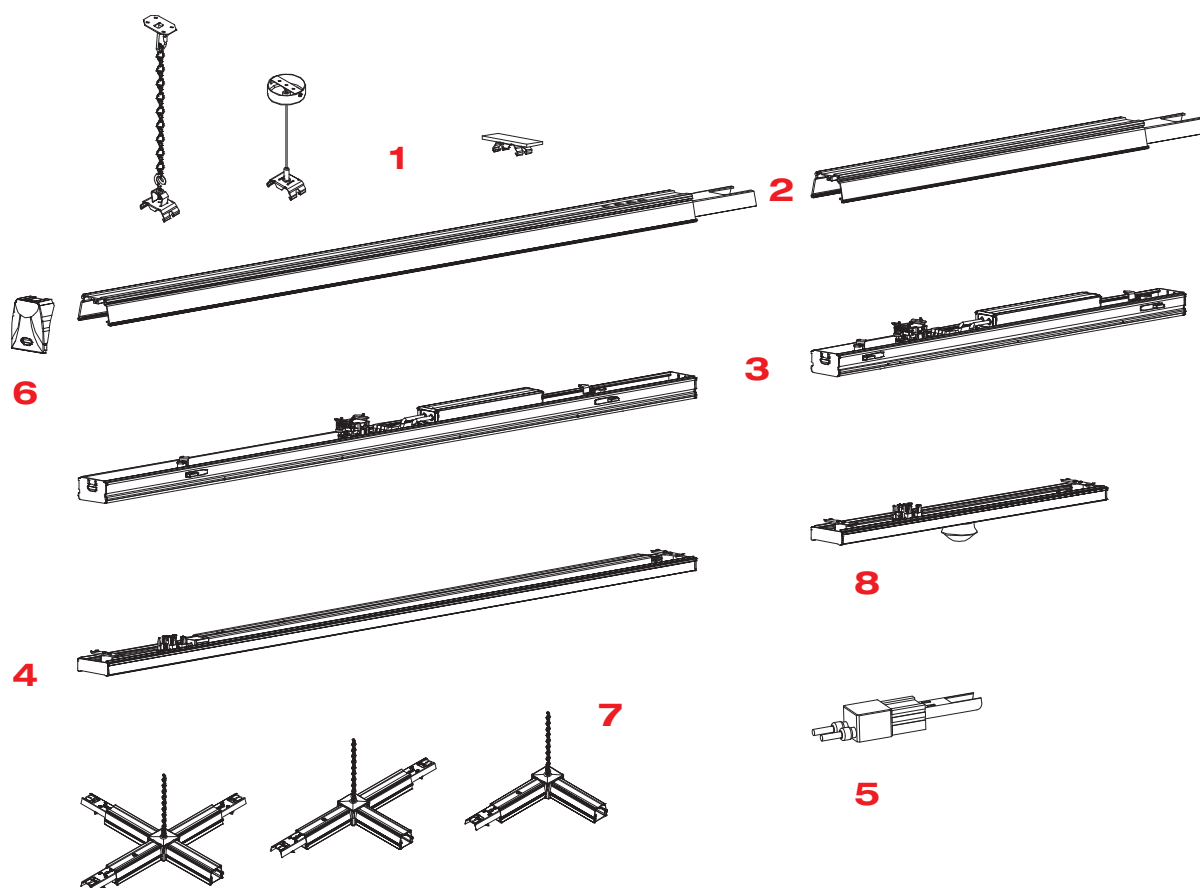
Key elements of the system:

- 1** Suspension and ceiling mounting elements
- 2** Pre-wired supporting profile (0.6 m, 1.5 m)
- 3** LED SD lighting module (0.6 m, 1.5 m)
- 4** Electrified tri-phase rail (1.5 m)
- 5** Powered head
- 6** End head
- 7** Connection modules: 2, 3, 4 way joints
- 8**  Module (0.6 m)



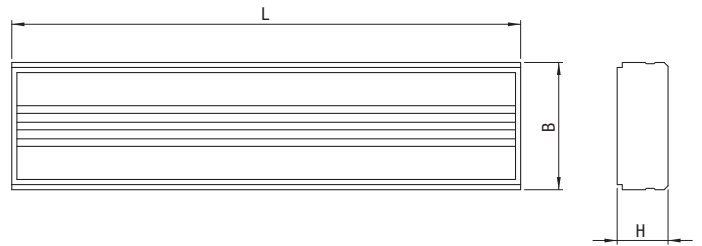
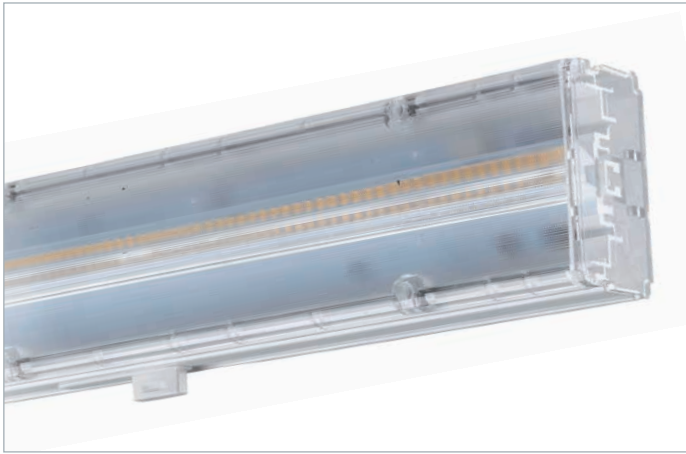
2 Pre-wired supporting profile
 equipped with a quick-connect system for speedy installation. Mounted before the other components, comprises the supporting structure of the system

3 Wired LED SD lighting module
 Available with 7 different optics, with a choice of concentrator, diffusor, asymmetrical and symmetrical options. The quick-locking system is also equipped with an electrical connection



SD lighting module

SD wired LED device



Power W*	• Dimensions (mm) •			Weight kg
	L	B	H	
2x 80	1 416	68	37	1.7
2x 18	568	68	37	0.8

SD lighting module

SmartDriver **SD**

Power* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N° LED	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2x 80	14500	RAIL LED 2x80 1500 WD SD 4K	Wide (90°)	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14501	RAIL LED 2x80 1500 SP SD 4K	Sharp (25°)	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14502	RAIL LED 2x80 1500 NR SD 4K	Narrow (60°)	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14503	RAIL LED 2x80 1500 DS SD 4K	Double Asymm	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14504	RAIL LED 2x80 1500 RS SD 4K	Right Asymm	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14505	RAIL LED 2x80 1500 LS SD 4K	Left Asymm	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 80	14568	RAIL LED 2x80 1500 DA SD 4K	(120°)	59	4 000	>80	65 (56*)	288	10 000	9 000	139	A++	1/10
2x 18	14540	RAIL LED 2x18 600 WD SD 4K	Wide (90°)	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14541	RAIL LED 2x18 600 SP SD 4K	Sharp (25°)	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14542	RAIL LED 2x18 600 NR SD 4K	Narrow (60°)	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14543	RAIL LED 2x18 600 DS SD 4K	Double Asymm	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14544	RAIL LED 2x18 600 RS SD 4K	Right Asymm	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14545	RAIL LED 2x18 600 LS SD 4K	Left Asymm	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10
2x 18	14569	RAIL LED 2x18 600 DA SD 4K	(120°)	23	4 000	>80	26	144	4 000	3 600	140	A++	1/10

* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 V_{AC}.

SUSPENDED MOUNTING



FIXING SYSTEM

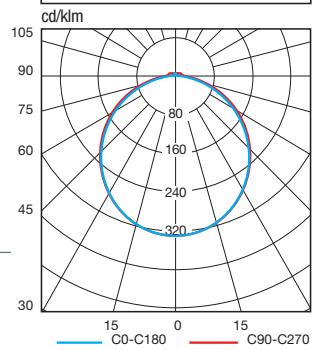


7 Optics, 7 different Polar diagrams

Rail System

80W – 120°

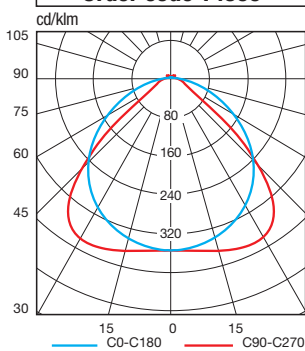
Order code 14568



Rail System

80W – 90°

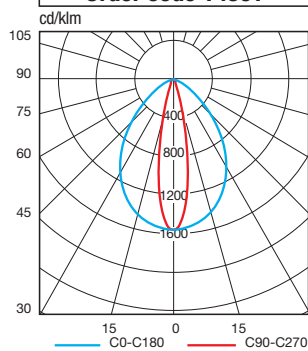
Order code 14500



Rail System

80W – 25°

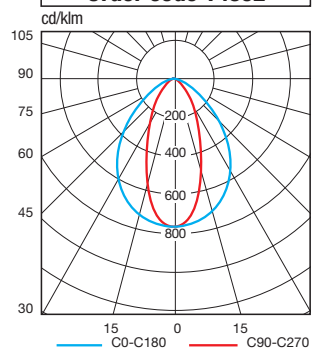
Order code 14501



Rail System

80W – 60°

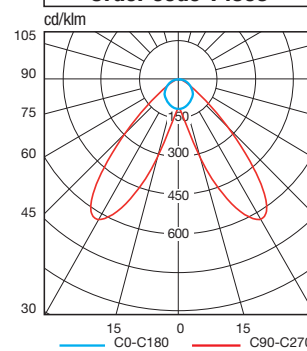
Order code 14502



Rail System

80W – double asymm.

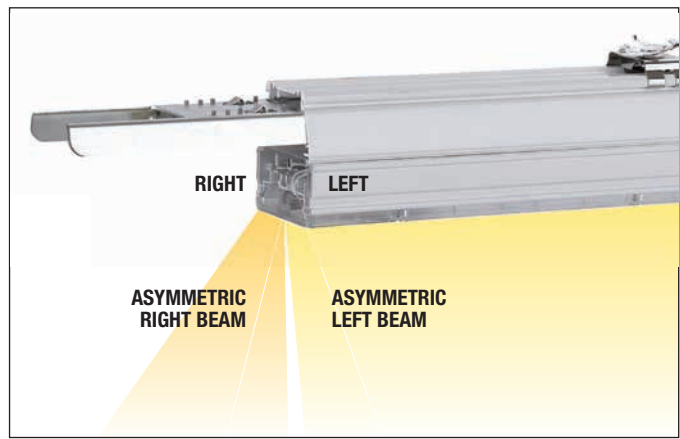
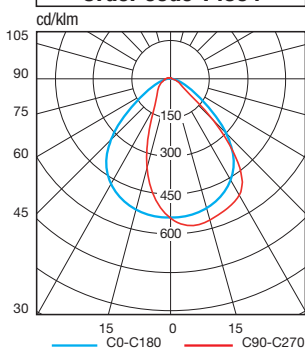
Order code 14503



Rail System

80W – right asymmetric

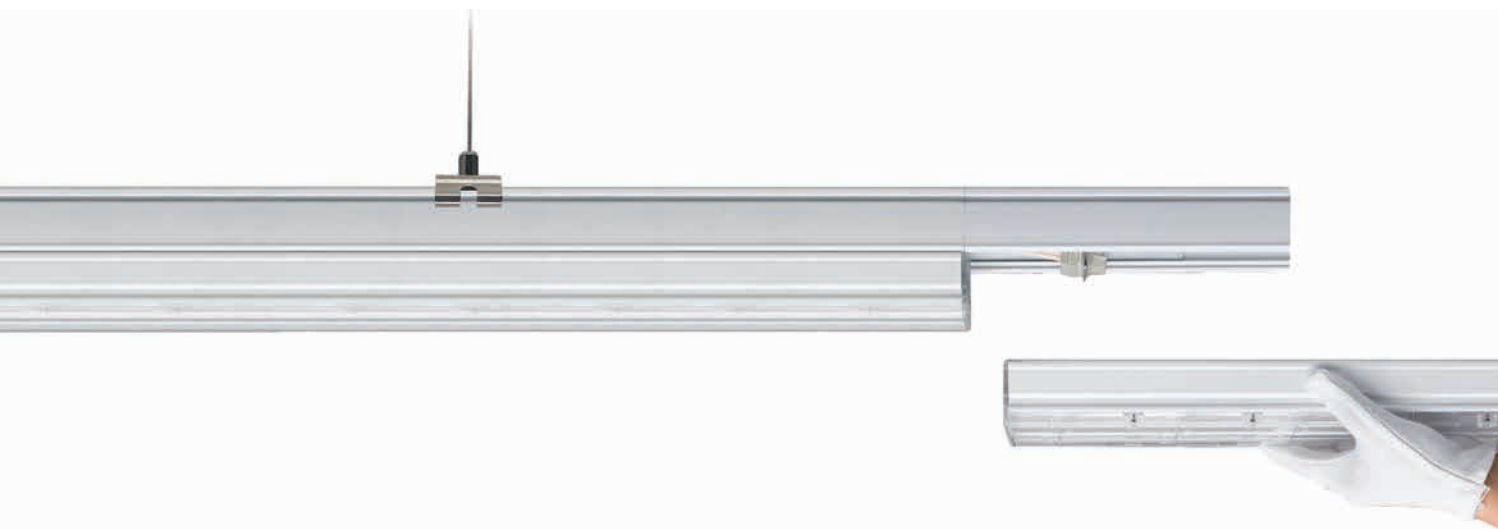
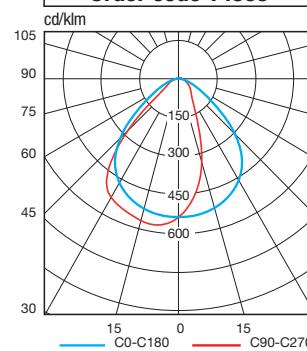
Order code 14504



Rail System

80W – left asymmetric

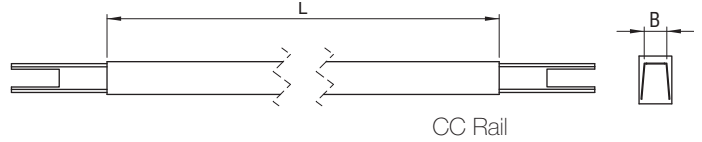
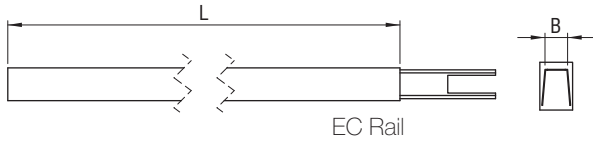
Order code 14505



Pre-wired supporting profile

Structure component

Equipped with a quick connection system for extremely fast installation. Mounted prior to the other components, it forms the supporting structure of the system. Continuous-row installation.



EC rail – supporting profile with lateral power supply

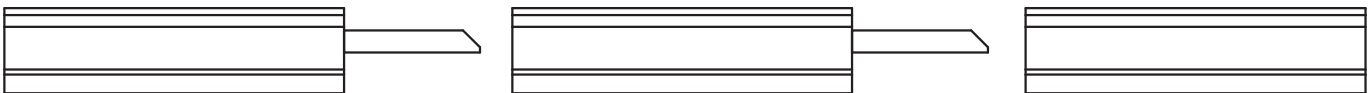
Model mm	Order code	Description	Cable section mm ²	• Dimensions (mm) •		Weight kg	Packaging
				L	B		
600	14516	RAIL 600 7 WIRE EC	2.5	570	68.4	0.7	1/10
1 500	14510	RAIL 1500 7 WIRE EC	2.5	1 416	68.4	1.4	1/10
3 000	14512	RAIL 3000 7 WIRE EC	2.5	2 832	68.4	2.8	1/10
4 500	14514	RAIL 4500 7 WIRE EC	2.5	4 248	68.4	4.2	1/10

CC rail – supporting profile with central power supply (from above)

Model mm	Order code	Description	Cable section mm ²	• Dimensions (mm) •		Weight kg	Packaging
				L	B		
1 500	14511	RAIL 1500 7 WIRE CC	2.5	1 416	68.4	1.4	1/10
3 000	14513	RAIL 3000 7 WIRE CC	2.5	2 832	68.4	2.8	1/10
4 500	14514	RAIL 4500 7 WIRE CC	2.5	4 248	68.4	4.2	1/10

To power a continuous row system from above, only one DC rail is required, which will supply power to all the EC rails in both directions

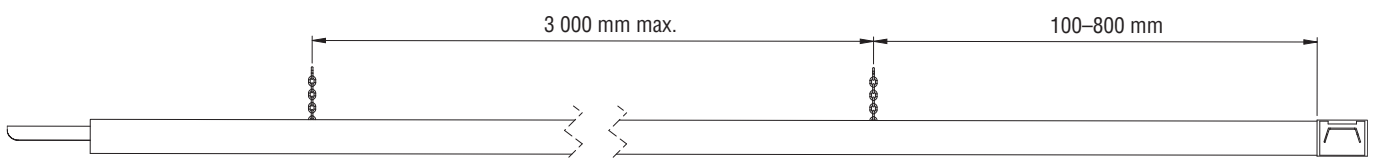
Quantity of lamps in a continuous row per phase



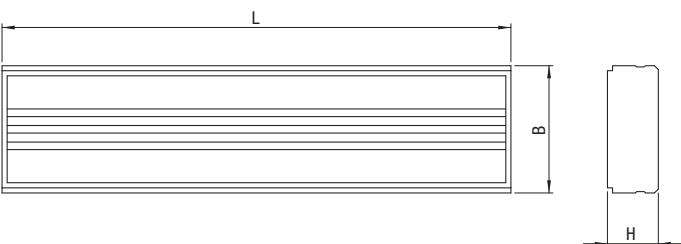
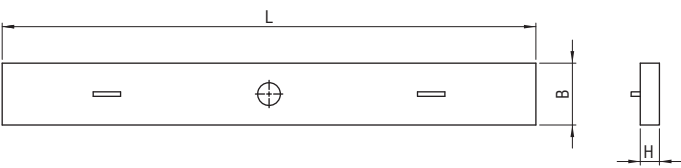
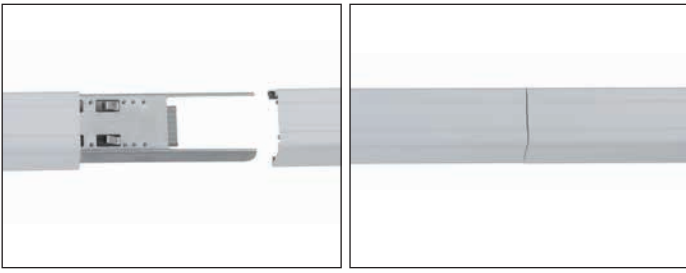
Power W	Length mm	Cable section mm ²	Quantity of lamps	Quantity of lamps	Length of line (m)	Length of line (m)
			230 V _{AC}	110 V _{AC}	230 V _{AC}	110 V _{AC}
2× 18	570	2.5	135	67	75	37
2× 80	1 416	2.5	54	27	75	37

The electrified rail consists of 3 phases + 2 that can be used to power the emergency lighting system or a BUS (Dali or Logica)

Spacing of fixing points



CONTINUOUS ROW MOUNTING



Electrified binary module

Structure component

For assembling three-phase spotlights of the ZOOM LED or EXPO LED type

L	• Dimensions (mm) •		H	Weight kg
	B			
1 416	68		21	1.7

Electrified binary module

Order code	Description	Packaging
14531	SPOT RAIL 1500 7 WIRE	1/10
14538	SPOT RAIL 600 7 WIRE	1/10

Smart photosensor

Structure component

The smart photosensor module allows to use Opticom, Autodimmer Natural Light and Dynamic Light technologies on all the Rail modules associated with it. These modules must be combined with the domotic radio module (15022).

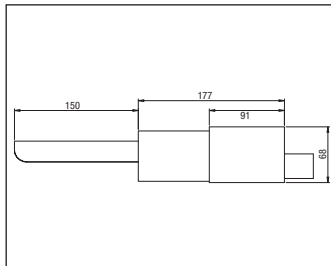
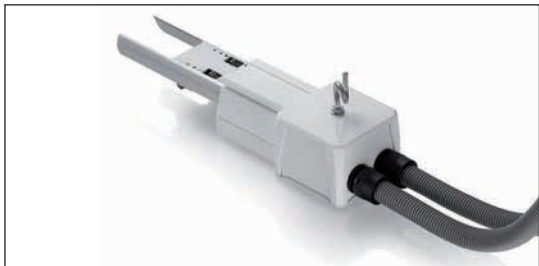
L	• Dimensions (mm) •		H	Weight kg
	B			
568	68		21	0.7

Smart photosensor

Order code	Description	Packaging
15035	RAIL AUTODIMMER OPTICOM 600	1

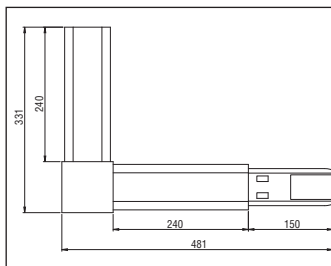
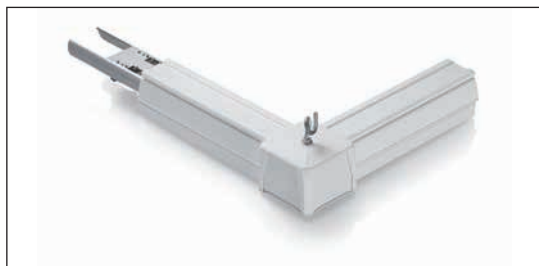
Rail system head and joint connections

RAIL SYSTEM HEAD

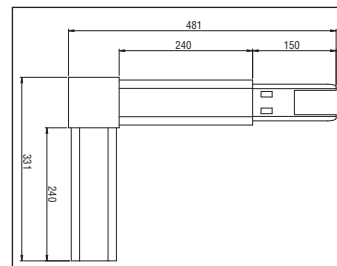


14520 RAIL POWERED HEAD 7 WIRE

L JOINT

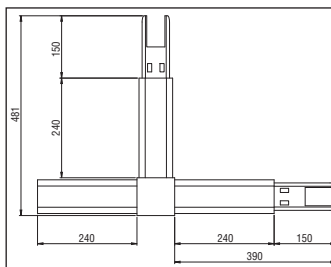
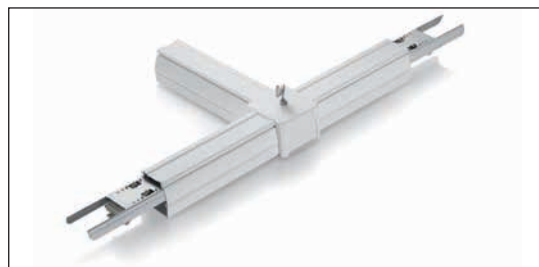


14521 RAIL L INL OTR 7 WIRE

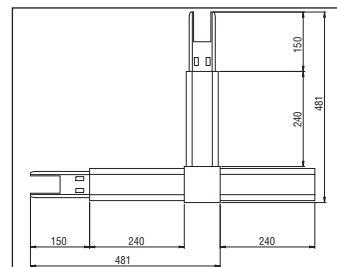


14522 RAIL L INR OTR 7 WIRE

T JOINT

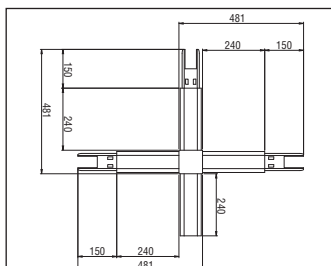
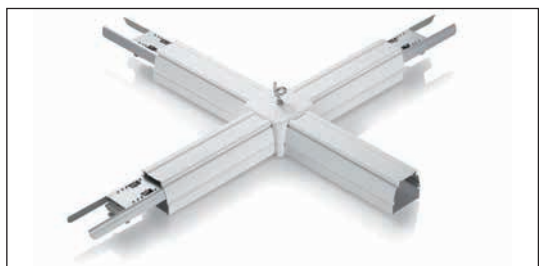


14524 RAIL T 1INL 2OUTR 7 WIRE

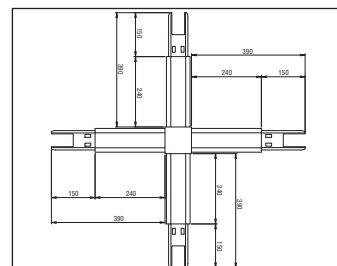


14525 RAIL T 1INR 2OUTL 7 WIRE

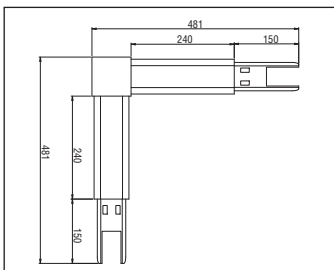
X JOINT



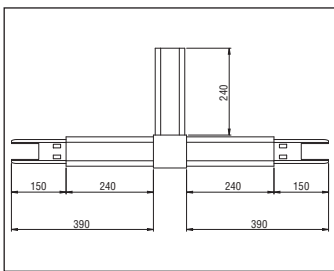
14528 RAIL X 1 IN 3OUT 7 WIRE



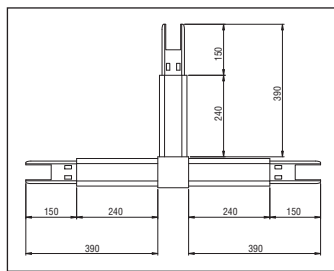
14529 RAIL X POWER 4OUT 7 WIRE



14523 RAIL L POWER 2OUT 7 WIRE



14526 RAIL T 1INC 2OUTS 7 WIRE



14527 RAIL T POWER 3OUT 7 WIRE