LIGHTING
FOR ARCHITECTURAL,
HOSPITALITY &,
RETAIL APPLICATIONS

2021/22

LIGHTING
FOR ARCHITECTURAL,
HOSPITALITY &
RETAIL APPLICATIONS

IT IS ON YOU

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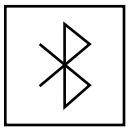
Robo

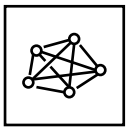
Motorized Remote Control Lighting

Key Features

ZigBee

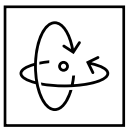

Bluetooth

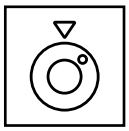
2.4G

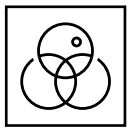

Mesh

Remote control

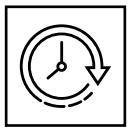
Zoomable

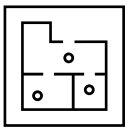

Pan & Tilt

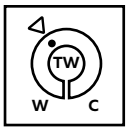

Unit


Group

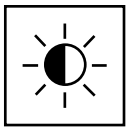
Scene


Schedule


Floormap



Tunable

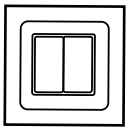

Brightness

Sensor

Report

Android*

IOS*


Keypad

Note

*...the application with the certain series

The Robo series is a motorized lighting system that uses wireless control technology. In high ceilings and those applications requiring dynamic lighting scenarios, labor costs and other maintenance fees can be reduced.

In order to provide a better lighting experience and simpler control methods in these areas, we chose wireless control technology to design the Robo series. In addition, they are able to pan and tilt to adjust the illumination angle, the light can also be zoom-in and zoom-out to change the beam angle, creating more possibilities for lighting.

ON uses a stepping motor to power the Robo series. Reducing the deceleration noise when a servo motor stops, it also controls the stroke of the lamp more accurately, allowing users to operate the APP interface more easily and know the precise rotation angle and illumination angle of the fixtures.

For a better understanding of Robo series' application. ON distinguishes between environments that require different motorized lighting and provides various appropriate wireless control solutions accordingly to different lighting needs.

Robo series' application

	Big site Ceiling height 6-8m 100 or more fixtures	**Medium site** Ceiling height 4 -6 m 30-100 fixtures	**Small site** Ceiling height 3 -4 m 1-30 fixtures
Frequently dynamic lighting (eg. car show room)	LynxPro**	LynxPro** LynxLite* 2.4G	LynxPro** LynxLite* 2.4G
Repeated lighting scene (eg. ballroom, lobby, international conference room)	LynxPro**	LynxPro** LynxLite*	LynxPro** LynxLite*
Occasional lighting adjustment (eg. museum, gallery, retail window)	LynxPro** 2.4G	LynxPro** LynxLite* 2.4G	LynxPro** LynxLite* 2.4G

Notes:

*... LynxLite (Bluetooth)

**... LynxPro (ZigBee)

Create your own lighting scenarios

Use RoboTrac and RoboCan to create your own lighting scenarios. This series allow you to create, save and retrieve the right lighting ambience for every situation. On business premises or in hotels, for employees, clients or visitors - the intelligent technical features and timeless design of ON lighting technology guarantee a pleasant atmosphere. It's all ON you!

Mesh Network

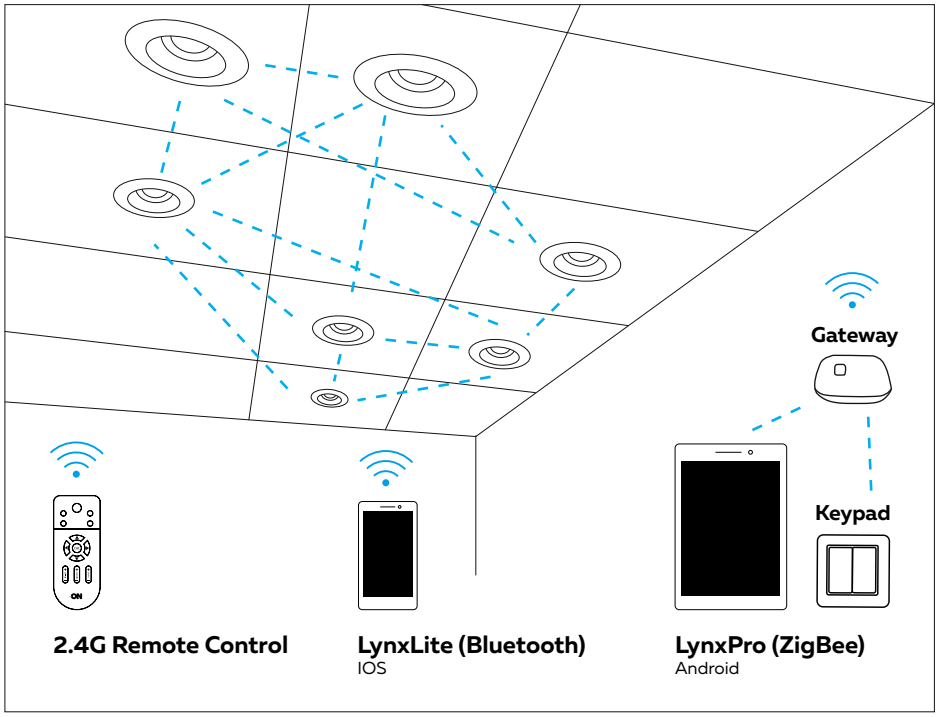
Easy mesh network set-up and self-healing features help users to focus on lighting applications for scenes, scheduling, daylight harvesting etc. Flexible options available to meet all user needs: with gateways for large-scale deployment or via 2.4 GHz remote control for small applications.

Motor Control

The motorized light is controlled by three stepper motors. The light head can be tilted by 30° in both directions and rotated horizontally by 355°. All the movements of the fixture can be remotely controlled via the app.

Light Control

For fixtures of this type, press the individual device icon to display the "Light Control" panel. For dimmable light, the panel only contains a level bar and on/off switch, while for colored dimmable light, it contains a color wheel and color temperature bar. Select "Switch to Color Temperature mode" to change to a different control panel.



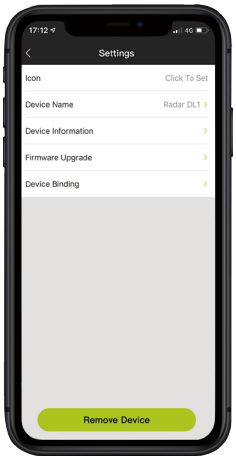
* ZigBee keypad can be choosen from the market, for example Jung / EnOcean.

LynxLite

Bluetooth（IOS）

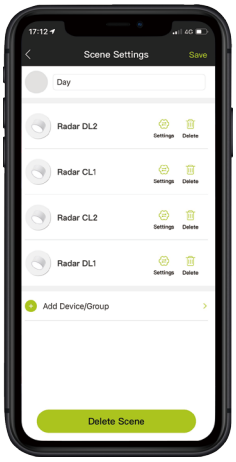
Add device

Binding device

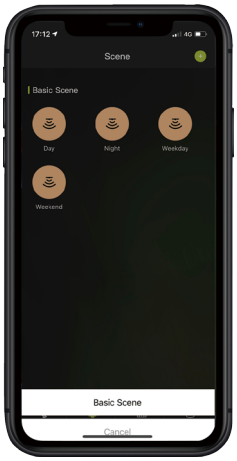


Adjust the light status

Set scene



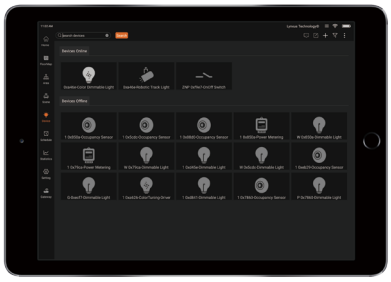
Scene select



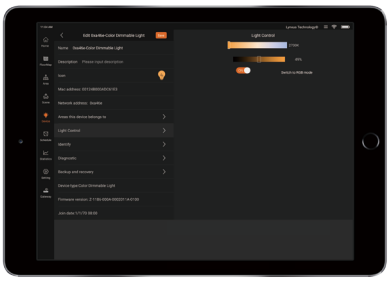
LynxPro

ZigBee（Android）

Main Page

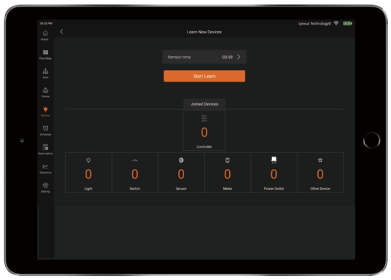


Light Control

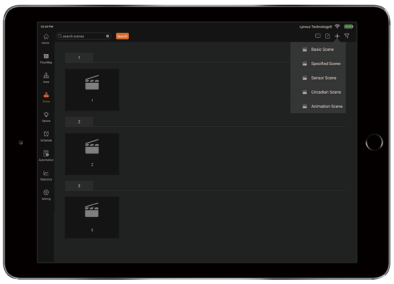


Motor Control

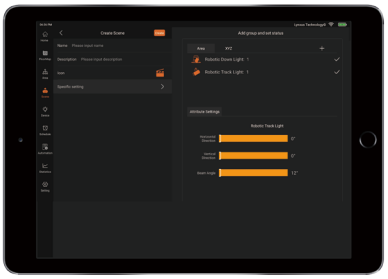
Pairing



Configuration



Calibration



Robo Series

Wireless protocol

	ZigBee LynxPro	**Bluetooth** LynxLite	**2.4G** Remote control
Radio	DSSS	FHSS	FHSS
Range (node to node)	15-100M	15-30M	15 M
Network Topology	Mesh	Mesh	Mesh
Extendability	YES	YES (add Gateway / cloud)	NO
Gateway	YES	NO (depending on conditions)	NO
APP System	Android	IOS	N/A
Wifi Environment	NO	NO (cloud pending)	NO

Note

*ON's ZigBee system can connect another brand's ZigBee fixtures (standard ZigBee protocol), not all fixtures must be from ON.

RoboTrac

LED SOURCE

CRI>90
CCT: 2700K / 3000K / 4000K / Tunable

OPTIC

LENS: Small angle, medium angle, zoomable.

DRIVER

Driver: Integrated 220-240V driver in the gearbox.
Control: LynxPro / 2.4G Remote control.

ACCESSORIES

See page 41 for optical accessories.

FINISH

Black / White

DESIGN PLUS
powered by: light+building

Description

RoboTrac is available in 3 optics: 7°narrow angle, 24°medium angle and zoomable (12°-55°) , with its lamp body diameter in 90mm.

Die casting lamp body offers a better heat-dissipation capability. Poly carbon gearbox gives the wireless module a better transiting condition if it is not to be shielded by a metal case. Three DC stepping motors drive 3 axis movement of the fixture. Tilting 90°, rotating 355° and zoom optics from 12° to 55° which allow users to adjust the light beam easily.

Stepping motors, meanwhile, provide a tranquil control experience by the ZigBee control method. Users can control every step by the app, which allows professional users to adjust the luminaire precisely. Moreover, the ZigBee version is capable of creating and memorizing multiple zones and scenes. By connecting a gateway allows a wifi-free environment. Users can recall the scene with just one click. All the movements of the fixture, beam-shaping, brightness and the color tuning will change just-in-time.

Universal joint

Enables 90° vertical tilt and 355°horizontal rotation. Available with three-circuit track adapter.

Optical

The beam spread can be adjusted smoothly and seamlessly from 12° to 55°with ample light output. Fixed angle 7 °and 24 °lenses are also available.

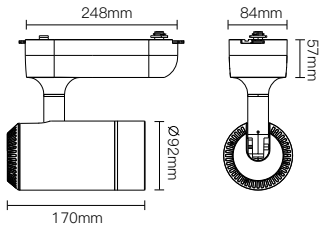
Body

Motorized track spotlight with die-cast body and aluminum joint for structural sturdiness and better heat dissipation.

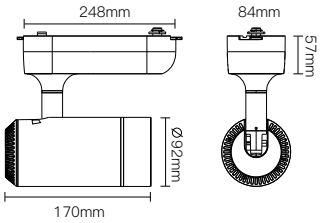
Swiveling Rotating

RoboTrac

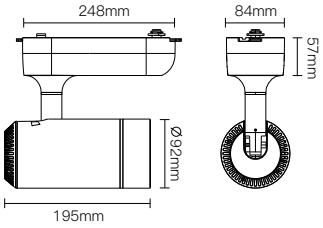
7°



24°



Zoom 12°-55°



Ordering Code eg.: TLRT28279007401

	Product Code	System Power	CCT	>CRI	Beam Angle	Tpycal Lumen	Driver Control	Finsh Color
RoboTrac	**TLRT**	**28** 28W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	2000lm 2260lm 2600lm	**4** ZigBee **6** 2.4G	**01** Black **02** White
			27 2700K **30** 3000K **40** 4000K	**90**	**24** 24°	1800lm 2000lm 2300lm		
			27 2700K **30** 3000K **40** 4000K	**90**	**Z1** 12°-55°	1550lm 1600lm 1600lm		
			TW Tunable	**90**	**24** 24° **Z1** 12°-55°	1400-1900lm 550-1550lm		
			30 3000K	**98**(Optional)	**24** 24° **Z1** 12°-55°			

Notes:

❶ For other CCT and CRI options, please contact us.

❷ Honeycomb louvre is available for zoomable version, see page 41.

RoboCan

LED SOURCE

CRI>90
CCT: 2700K / 3000K / 4000K / Tunable

OPTIC

LENS: Small angle, medium angle.
For other requests, please contact us.

DRIVER

Driver: Integrated 220Vac input driver.
Control: LynxPro / 2.4G Remote control.

ACCESSORIES

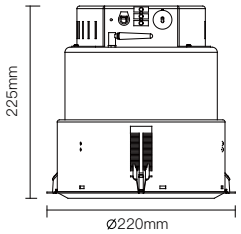
No accessories available

FINISH

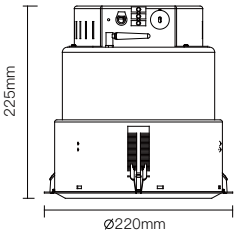
Black / White

RoboCan

7°



24°



Ordering Code eg.: DLRC28279007401

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
RoboCan	**DLRC**	**28** 28W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	1735lm 1830lm 1960lm	**4** ZigBee **6** 2.4G	**01** Black **02** White
			27 2700K **30** 3000K **40** 4000K	**90**	**24** 24°	1735lm 1830lm 1960lm		
			TW Tunable	**90**	**24** 24°	1300lm-1700lm		

Notes:

❶ For other CCT and CRI options, please contact us.

❷ For other beam angles, please contact us.

RoboRadar

LED SOURCE

CRI>90
CCT: 2700K / 3000K / 4000K / Tunable

OPTIC

Reflector, Lens: Small, midium, wide angle.
For other requests, please contact us.

DRIVER

Integrated 220Vac input driver.
Control: LynxLite, / 2.4G Remote control.

ACCESSORIES

No accessories available

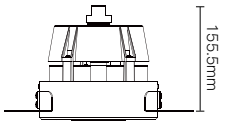
FINISH

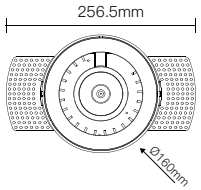
Black / White

reddot winner 2021
lighting design

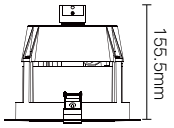
RoboRadar

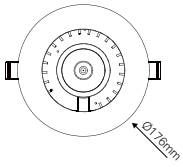
Trimless



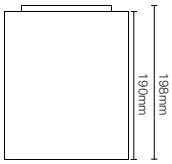


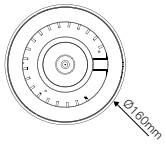
Downlight





Surface Mounted





Ordering Code eg.: R10120279015501

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
RoboRadar Trimless	**R101**	**20** 20W	**27** 2700K	**90**	**18** 18°	1650lm	**5** Bluetooth	**01** Black
			30 3000K		**24** 24°	1650lm	**6** 2.4G	**02** White
			40 4000K		**36** 36°	1650lm		
RoboRadar Downlight	**R102**		**TW** Tunable	**90**	**24** 24°	1500lm		
					36 36°	1500lm		
RoboRadar Surface Mounted	**R201**							

Notes:

❶ For other CCT and CRI options, please contact us.

❷ For other beam angles, please contact us.

Maga

Low-Voltage Magnet Tracking System

48Vdc

The range of possibilities for creating smaller and compact luminaires is now much wider.
The 48V magnet track system allows the track to blend into the interior design and brings a soothing and superior lighting experience .

Magnet Low-Voltage Tracking System

A comprehensive collection for retail and residential lighting applications. The innovative design allows the fixtures to be secured anywhere and powered along the track with magnets. This superior lighting system allows full mobility and flexibility, providing different beam spread accessories to change the beam angle and light pattern without tools. A sophisticated tracking system to fulfill your imagination of lighting.

Linear

Suspension

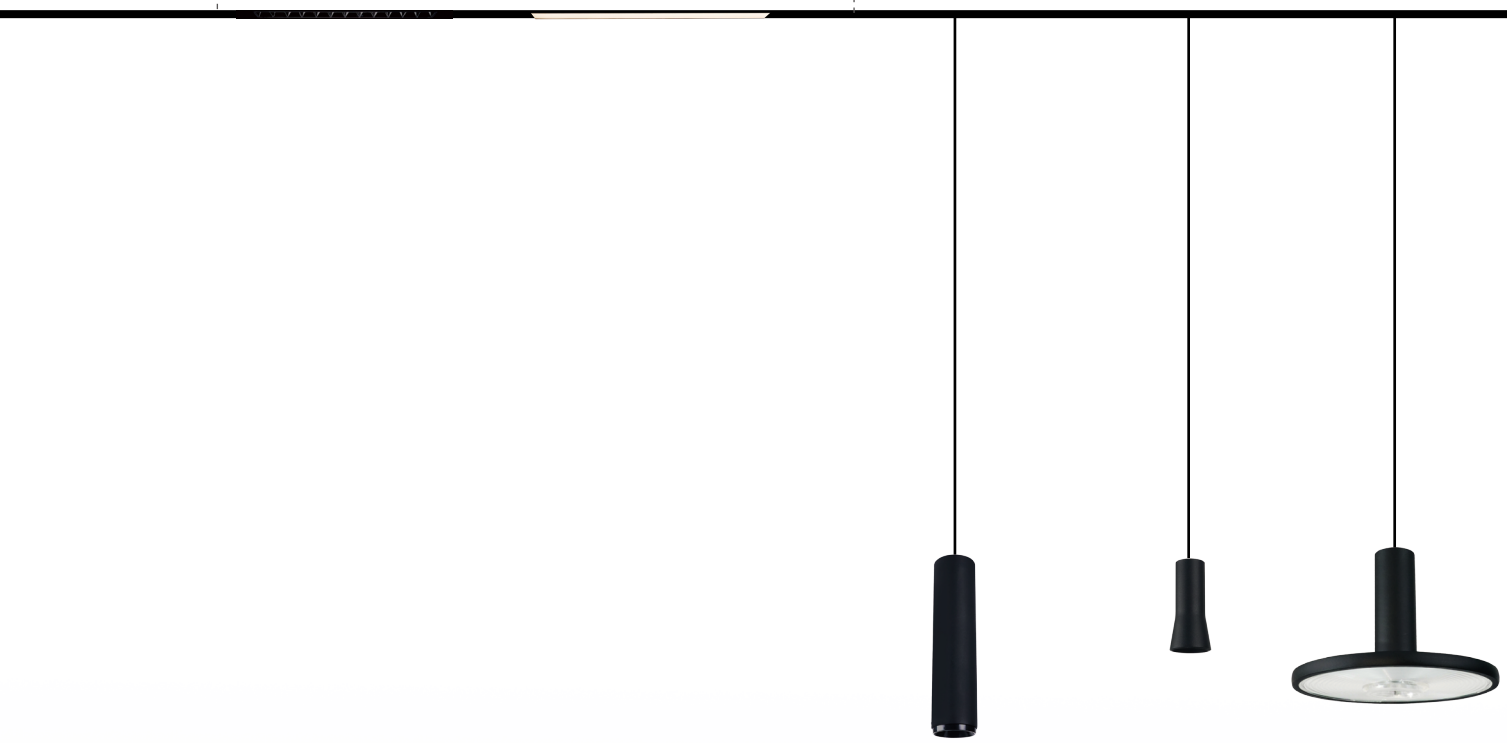
Bande

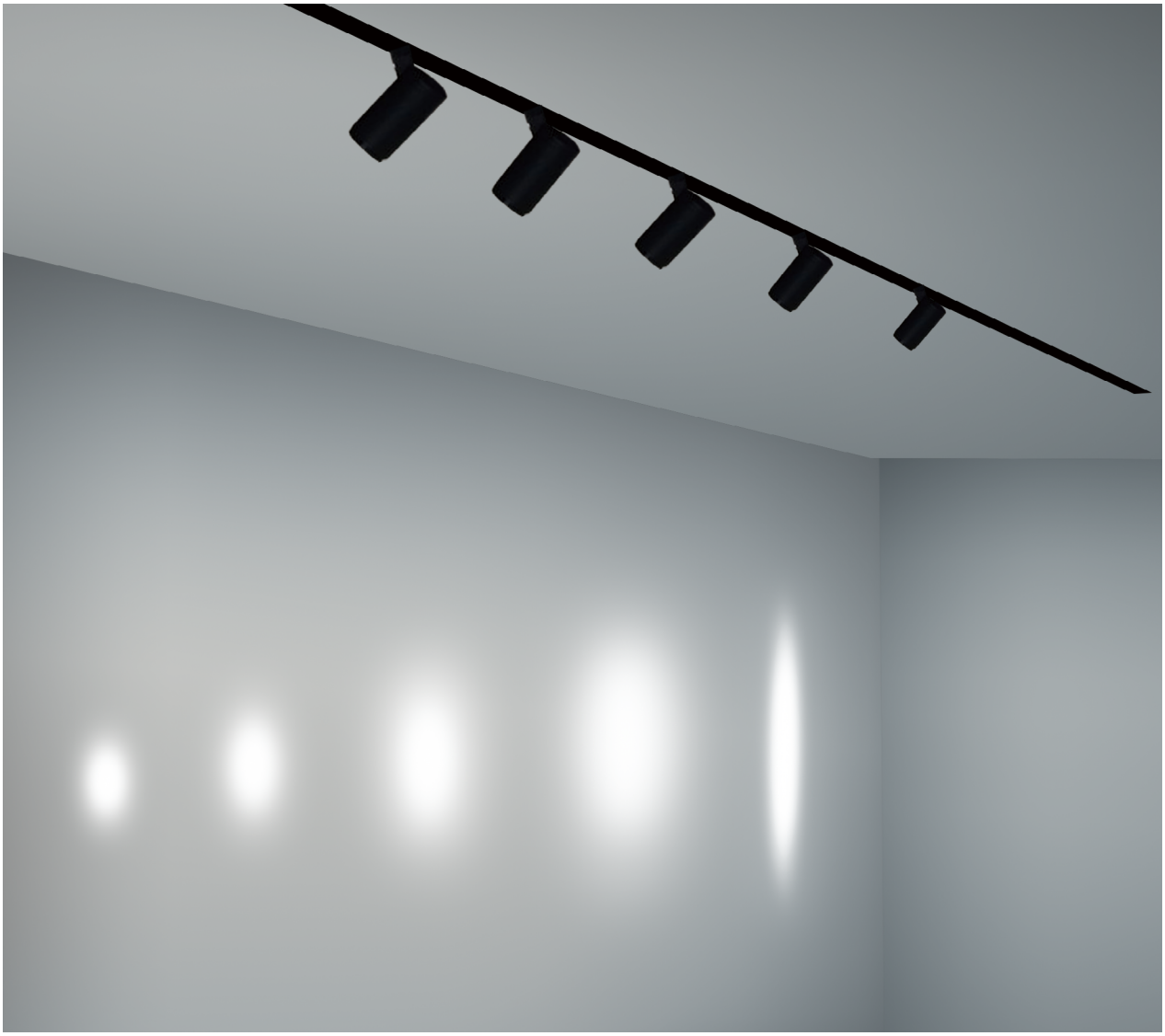
Bande Diffuser

Ami-Pendant

Canos

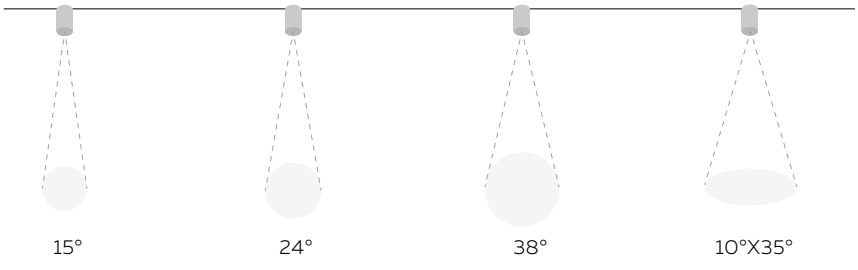
Navia





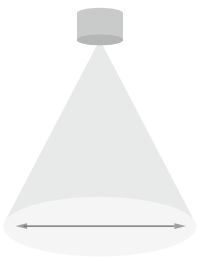
Ami-Filter

Create diversified lighting effects with magnetic accessories. Change the beam spread without tools.



Zoom-in (45°)

Zoom-out (18°)



18°-45°

Ami-Zoom

The possibility of creating limitless angles and magical mobility.
It is easy to change the beam spread at any time, allowing you to create a unified impression in retail premises, museums and art galleries.

Low-Voltage Track

LED SOURCE

CRI>90
CCT: 2700K / 3000K / 4000K

OPTIC

LENS: small angle, medium beam angle,
wide angle, wallwash, zoomable.
For other requests, please contact us.

DRIVER

Integrated 48Vdc driver.
Dimming option: 0-10V, Dali, Casambi
(Check page 37-38 for more details about dimming options.)

AC-DC power supply need to be ordered separately.
(See page 37)

ACCESSORIES

See page 41 for optical accessories.

FINISH

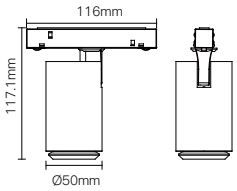
Black / White

reddot winner 2021
lighting design

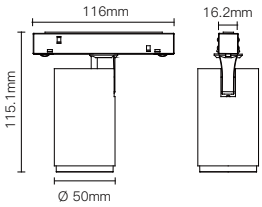
Maga

Low-Voltage Track

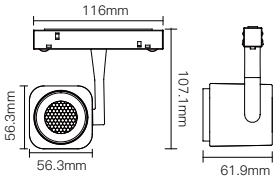
Ami-Zoom



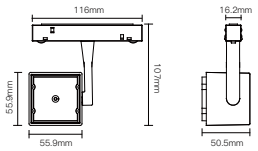
Ami-Filter



Cubo



Dabo



Ordering Code eg.: M403103090Z2N01

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
Maga-Ami-Zoom	**M403**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**Z2** 18°-45°	288lm 320lm 350lm	**N** Non-dim **A** 0-10V dim **D** Dali dim	**01** Black **02** White
*Maga-Ami-Filter	**M404**	**09** 9W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	450lm 500lm 550lm		
*Maga-Cubo	**M405**	**09** 9W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	405lm 450lm 500lm		
Maga-Dabo	**M406**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	504lm 560lm 616lm		

Notes:

❶ For other CCT and CRI options, please contact us.

❷ Wireless dimming is availiable by selecting CASAMBI Control unit. Please see page37-38.

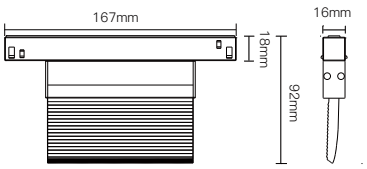
❸ The lumen output of Ami-filter and Cubo are measured by the original optics (7°). If you need other optical accessories, see page 41.

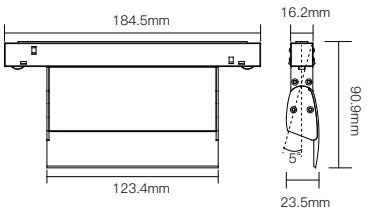
Maga

Low-Voltage Track

Pixy

Casa





Ordering Code eg.: M 4 0 1 0 7 3 0 9 0 W W N 0 1

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
Maga-Pixy	**M401**	**07** 07W	**27** 2700K	**90**	**WW** Wall wash	504lm	**N** Non-dim	**01** Black
			30 3000K			560lm	**A** 0-10V dim	**02** White
			40 4000K			610lm	**D** Dali dim	
Maga-Casa	**M402**	**12** 12W	**27** 2700K	**90**	**30** 30°	468lm		
			30 3000K			520lm		
			40 4000K			570lm		

Notes:

❶ For other CCT and CRI options, please contact us.

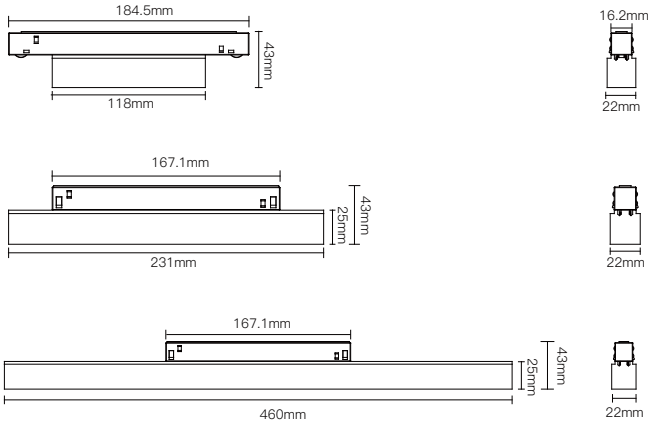
❷ Wireless dimming is availiable by selecting CASAMBI control unit. Please see page37-38.

Maga

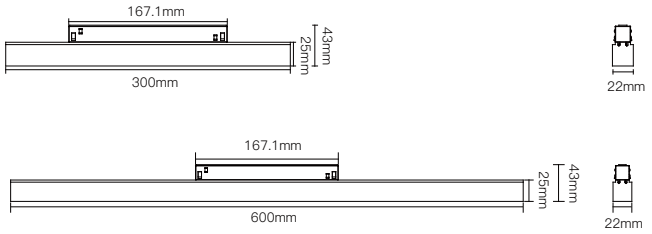
IP20

Low-Voltage Track

Bande



Bande Diffuser



Ordering Code eg.: M410063090 38 N01

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
Maga-Bande	**M410**	**06** 06W	**27** 2700K **30** 3000K **40** 4000K	**90**	**38** 38°	315lm 350lm 385lm	**N** Non-dim **A** 0-10V dim **D** Dali dim	**01** Black **02** White
		10 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**38** 38°	450lm 500lm 550lm		
		20 20W	**27** 2700K **30** 3000K **40** 4000K	**90**	**38** 38°	990lm 1100lm 1210lm		
Maga- Bande Diffuser	**M411**	**11** 11W	**27** 2700K **30** 3000K **40** 4000K	**90**	**FD** Flood	459lm 510lm 560lm		
		20 20W	**27** 2700K **30** 3000K **40** 4000K	**90**	**FD** Flood	945lm 1050lm 1155lm		

Notes:

❶ For other CCT and CRI options, please contact us.

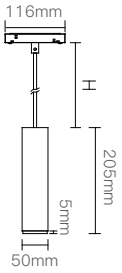
❷ Wireless dimming is availiable by selecting CASAMBI Control unit. Please see page37-38.

Maga

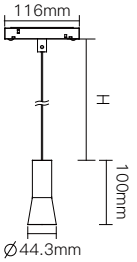
IP20

Low-Voltage Track

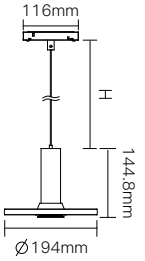
Ami pendant



Canos



Navia



Ordering Code eg.: M4071330900 7N01

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
*Maga-Ami-Pendant	**M407**	**09** 9W	**27** 2700K	**90**	**07** 7°	369lm	**N** Non-dim	**01** Black
			30 3000K			410lm	**A** 0-10V dim	**02** White
			40 4000K			450lm	**D** Dali dim	
Maga-Canos	**M408**	**07** 7W	**27** 2700K	**90**	**15** 15°	324lm		
					24 24°	360lm		
					36 36°	342lm		
		07 7W	**30** 3000K	**90**	**15** 15°	360lm		
					24 24°	400lm		
					36 36°	380lm		
		07 7W	**40** 4000K	**90**	**15** 15°	396lm		
					24 24°	440lm		
					36 36°	420lm		
Maga-Navia	**M409**	**07** 7W	**27** 2700K	**90**	**24** 24°	360lm		
			30 3000K			400lm		
			40 4000K			440lm		

Notes:

❶ For other CCT and CRI options, please contact us.

❷ Wireless dimming is availiable by selecting CASAMBI Control unit. Please see page37-38.

❸ The lumen output of Ami-Pendant is measured by the original optics (7°). If you need other optical accessories, see page 41.

Mains Voltage Recessed

LED SOURCE

CRI>90
CCT: 2700K / 3000K / 4000K

OPTIC

LENS: small angle, medium beam angle, wide angle, wallwash, zoomable.
For other requests, please contact us.

DRIVER

External 220Vac driver.

ACCESSORIES

See page 41 for optical accessories

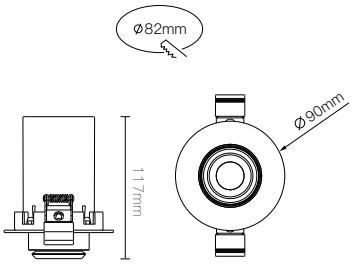
FINISH

Black / White

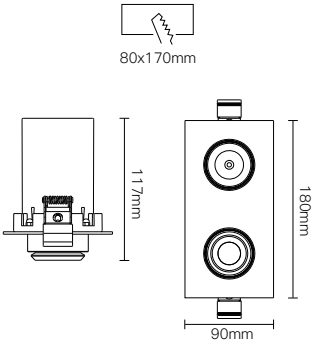
Maga-Ami

Mains Voltage Recessed

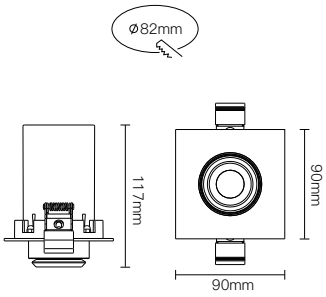
Ami-Round
zoom



Ami-Rectangle
zoom



Ami-Square
zoom



Ordering Code eg.: M201103090Z2N01

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
Maga-Ami-Round	**M201**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**Z2** 18°-45°	290lm 320lm 350lm	**N** Non-dim **A** 0-10V dim **D** Dali dim	**01** Black **02** White
Maga-Ami-Rectangle	**M202**	**20** 10W*2	**27** 2700K **30** 3000K **40** 4000K	**90**	**Z2** 18°-45°	290lm*2 320lm*2 350lm*2		
Maga-Ami-Square	**M203**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**Z2** 18°-45°	290lm 320lm 350lm		

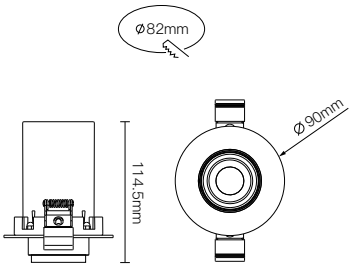
Notes:

❶ For other CCT and CRI options, please contact us.

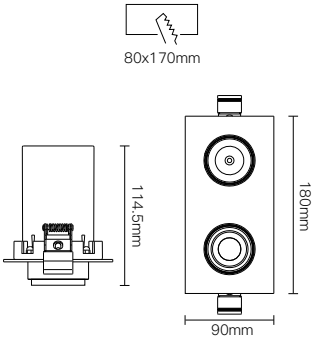
Maga-Ami

Mains Voltage Recessed

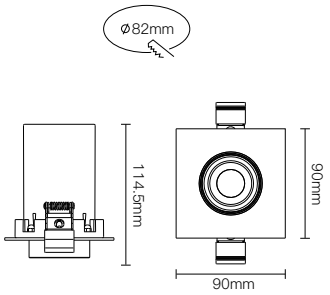
Ami-Round



Ami-Rectangle



Ami-Square



Ordering Code eg.: M20410309007N01

	Product Code	System Power	CCT	>CRI	Beam Angle	Typical Lumen	Driver Control	Finish Color
*Maga-Ami-Round	**M204**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	370lm 410lm 450lm	**N** Non-dim **A** 0-10V dim **D** Dali dim	**01** Black **02** White
*Maga-Ami-Rectangle	**M205**	**20** 10W*2	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	370lm*2 410lm*2 450lm*2		
*Maga-Ami-Square	**M206**	**10** 10W	**27** 2700K **30** 3000K **40** 4000K	**90**	**07** 7°	370lm 410lm 450lm		

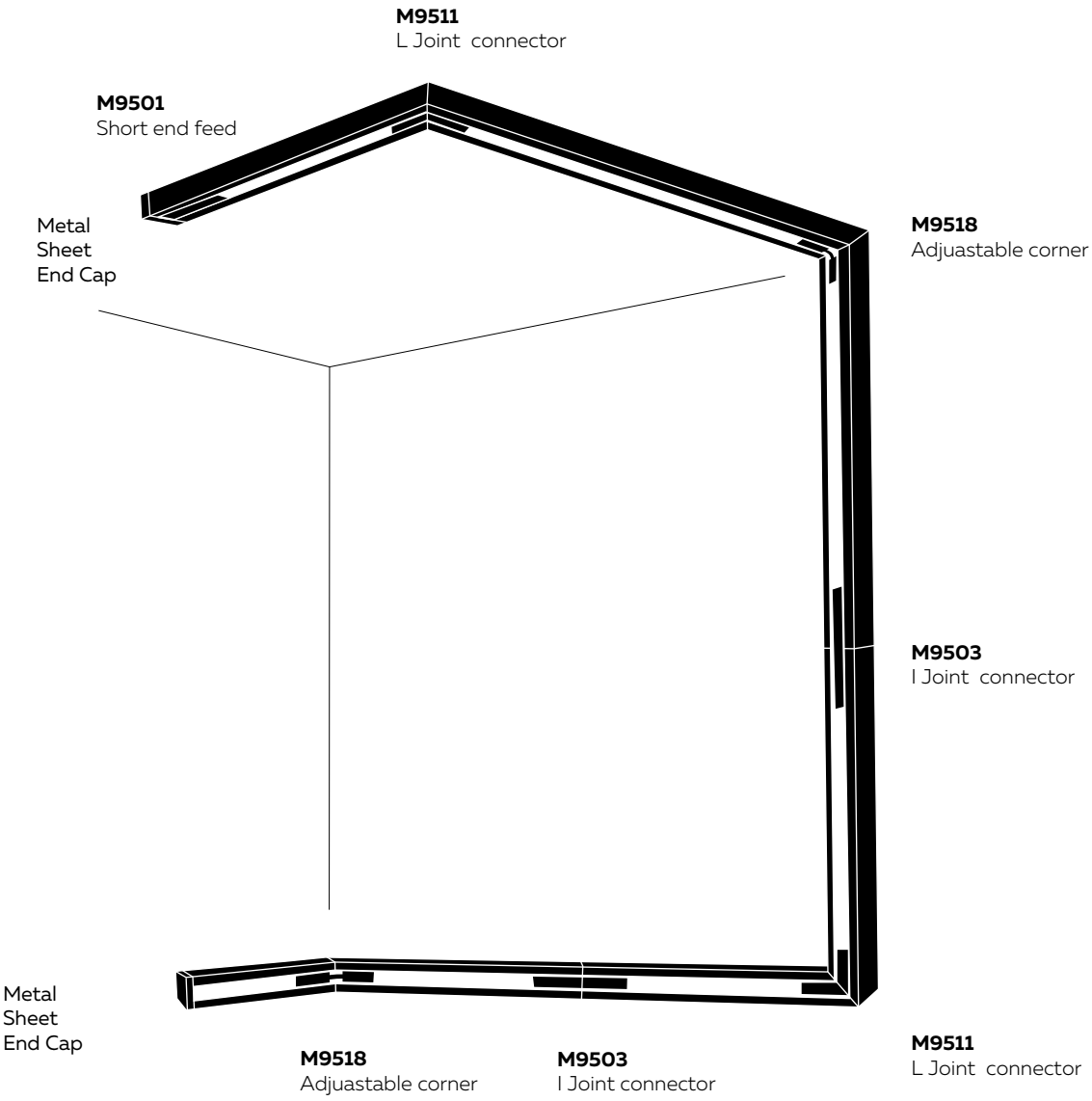
Notes:

❶ For other CCT and CRI options, please contact us.

❷ Lumen specs are measured by the original optics (7°). If you need other optical accessories, see page 41.

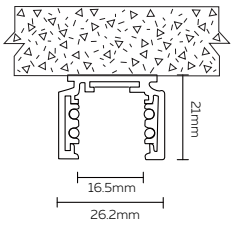
Low-Voltage Track Accessories

Reference Diagram for Choice of Connectors

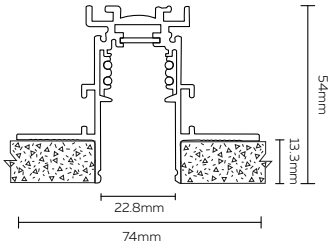


Low-Voltage Track

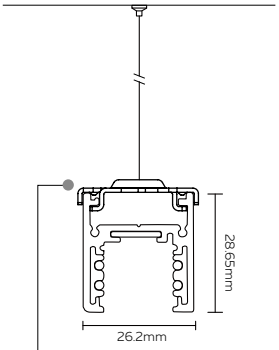
Surface track
MST1

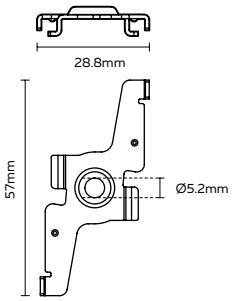


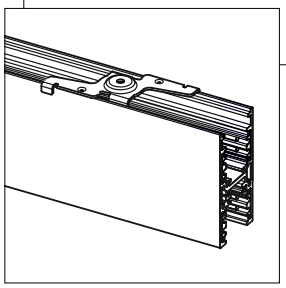
Recessed trimless
MST5



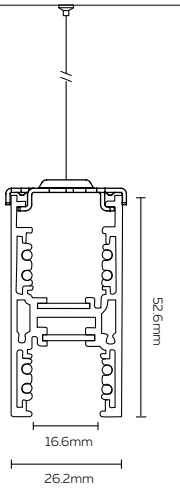
Surface track | Pendant track
MST6







Pendant track
MST7

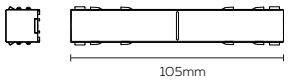


Ordering Code: M S T 1 1 W 1

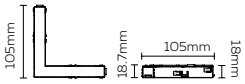
Type Cope	Size	Color
MST1 Surface track	**1** 1m	**W1** Matt white
MST5 Recessed trimless	**2** 2m	**B1** Matt black
MST6 Surface track/Pendant track	**3** 3m	
MST7 Pendant track		

Low-Voltage Track Accessories

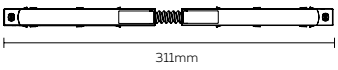
M9503 I Joint connector



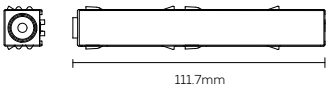
M9511 L Joint connector



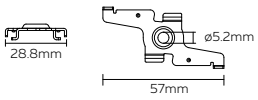
M9518 Adjuastable corner



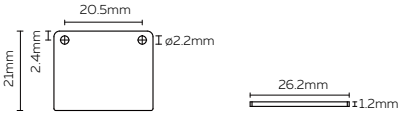
MD9501 Short end feed



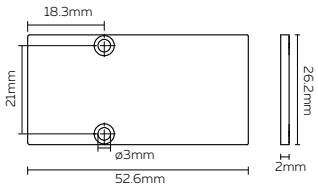
ME9500 Surface / Pendant clamp



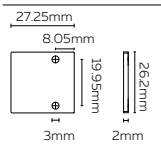
ME9501 Metal sheet end cap for MST1



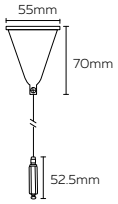
ME9505 Metal sheet end cap for MST5 & MST7



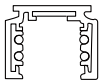
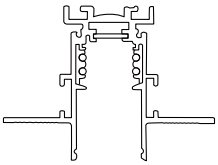
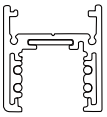
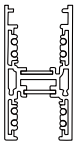
ME9506 Metal sheet end cap for MST6



M9000 Suspension kit for MST6 & MST7



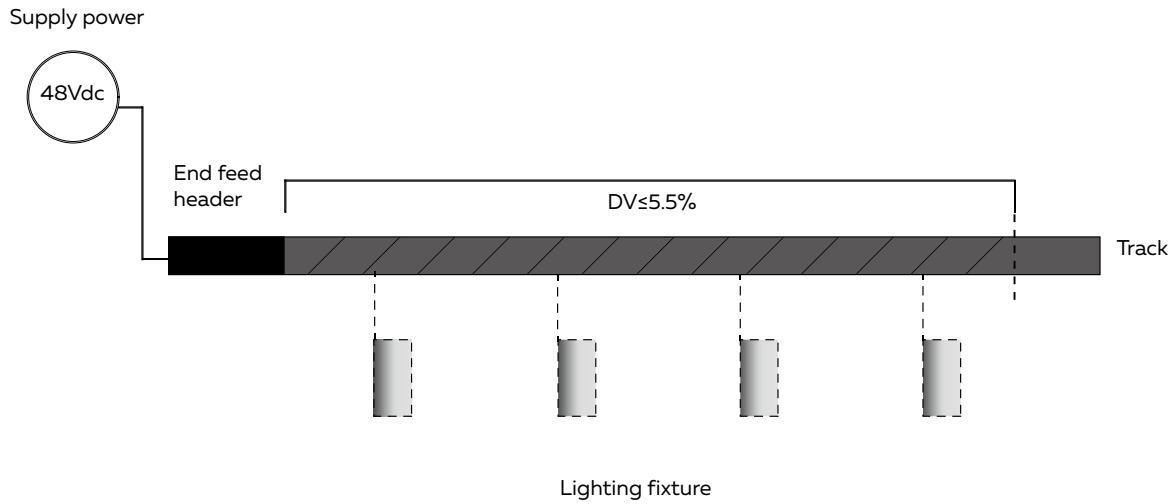
Compatibility

	MST1	MST5	MST6	MST7
				
	Surface track	Recessed trimless	Surface track Pendant track	Pendant track Up & Down
Pixy	x		x	x
Casa	x		x	x
Ami-Zoom	x		x	x
Ami-Filter	x		x	x
Cubo	x	x	x	x x
Dabo	x	x	x	x x
Bande	x	x	x	x
Bande Diffuser	x	x	x	x
Ami-Pendant	x	x	x	x
Canos	x	x	x	x
Navia	x	x	x	x

Drop Voltage Table

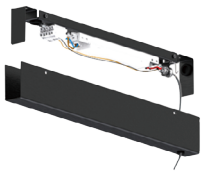
Power supply (W)	Distance power supply/ feed unit (2 x 1.5mm^2)			
	5m	10m	20m	30m
	Track length with △V ≤ 5.5% (m)			
60	50m	50m	50m	50m
100	50m	50m	40m	25m
150	50m	40m	20m	Not admitted
200	40m	30m	Not admitted	Not admitted
250	35m	20m	Not admitted	Not admitted

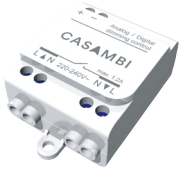
The indications refer to a load equivalent to the power supplied and equally distributed on the relevant length in the table.



Power Supply / Control

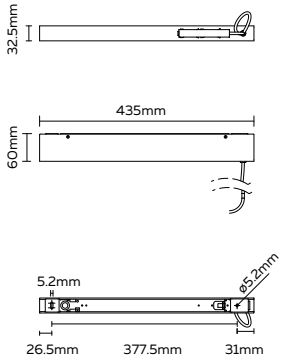
Power Supply and Control Unit

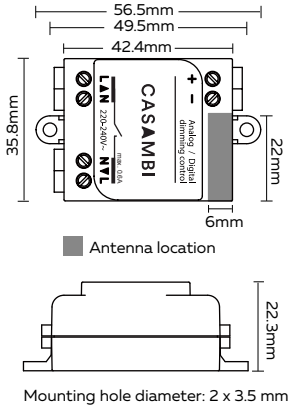




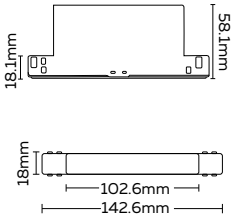
	100W Power Supply	Wireless Control Unit	Daligate
Ordering Code	3PA0	3C01	3C02
Spec	220-240Vac Input 48Vdc Output 100W power supply for MST1, MST6, MST7 track.	220-240Vac Input 0-10Vac Output	24-48Vac Input 6W Output

Size

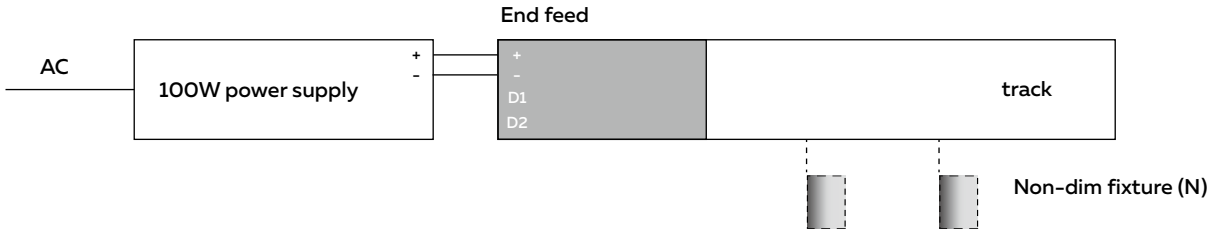




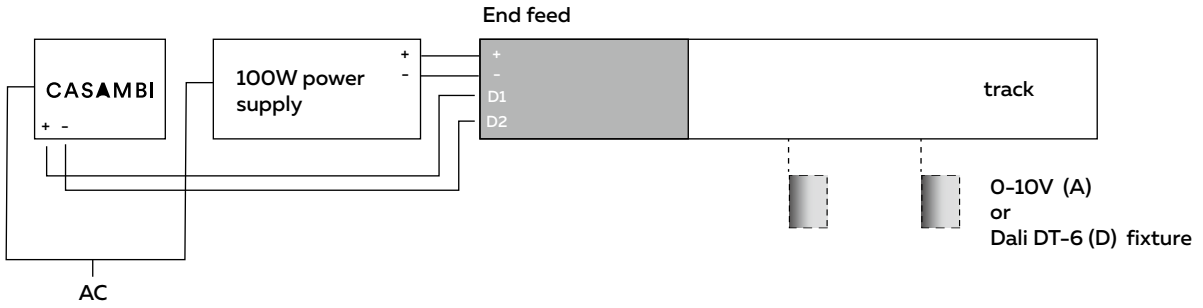
Mounting hole diameter: 2 x 3.5 mm



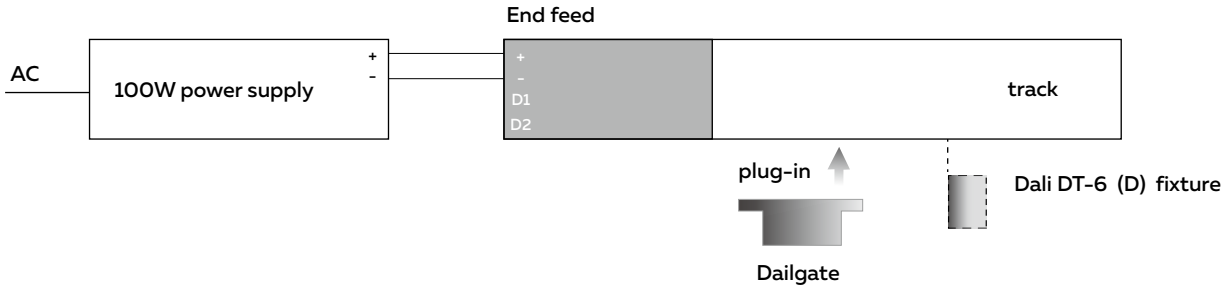
* Wiring diagram, directly powerd by 100W power supply.



* Wiring diagram, 100W power supply with external wireless CASAMBI CBU to 0-10V / Dali interface .



* Wiring diagram, 100W power supply with plug-in wirless wireless CASAMBI Dailgate to Dali interface .



Optical Accessories

Optical Accessories

Product / Optical Accessories		Honeycomb	Honeycomb	15°	24°	38°	10°x35°
Robo	**Robotrac** Zoomable	2A11		-	-	-	-
Maga	**Ami-filter**	-	2A12	2A21	2A23	2A24	2A25
	Ami-pendant	-	2A12	2A21	2A23	2A24	2A25
	Cubo	-	2A12	2A21	2A23	2A24	2A25
	Mains Voltage Downlight	-	2A12	2A21	2A23	2A24	2A25

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