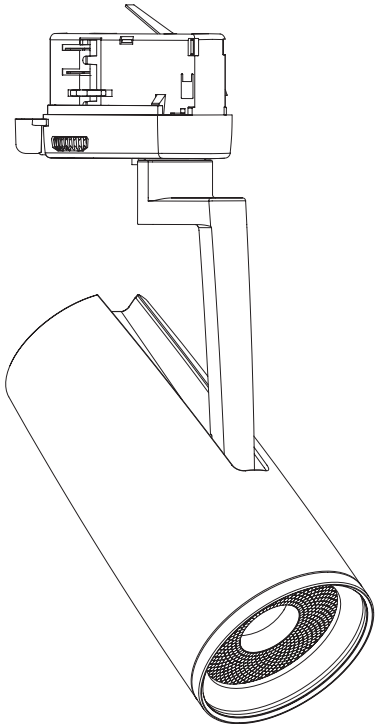
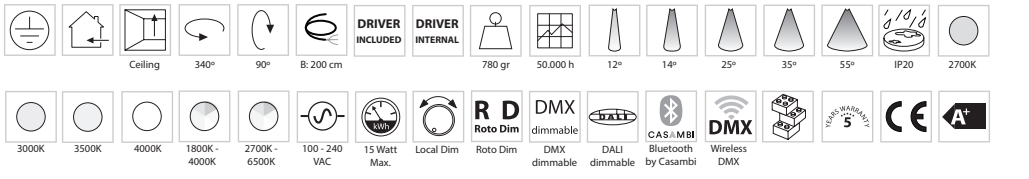
CLS TOPAZ EXPO SERIES

Manual V1.3 - February 2025





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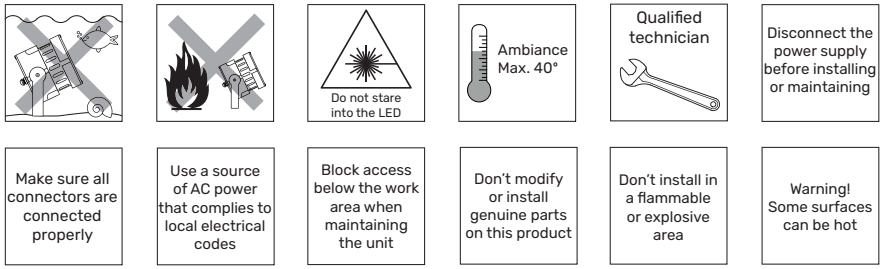
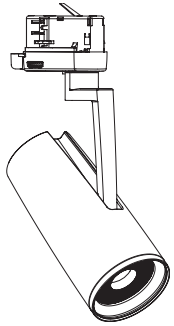
SAFETY INFORMATION



CONTENT



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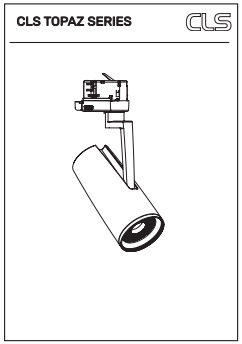
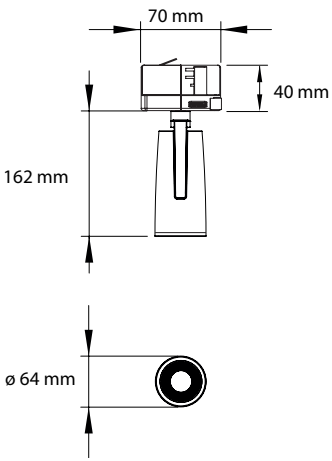
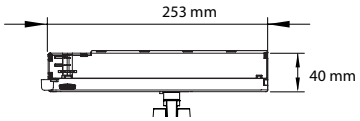


TECHNICAL

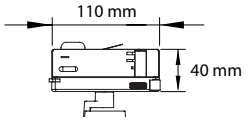
Topaz Profile



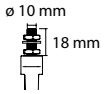
Casambi adapter



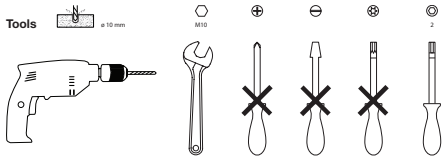
DMX adapter



Bolt Mounting



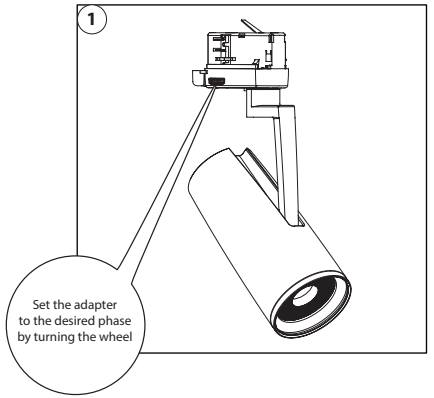
Tools

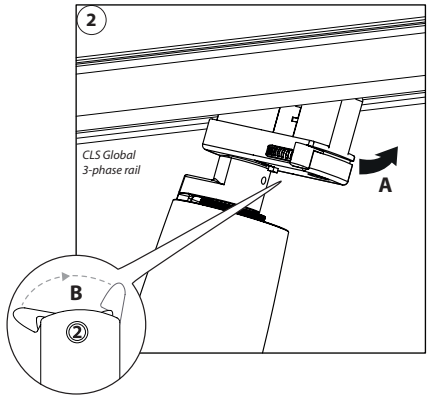


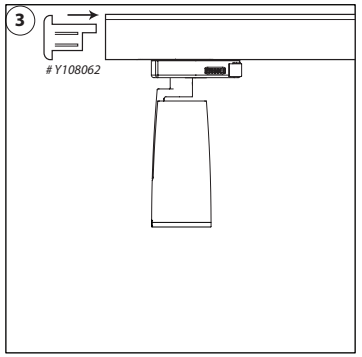
SPECIFICATIONS

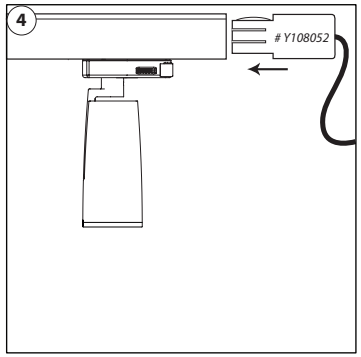
LED:	Bridgelux or Xicato	Power consumption:	Max. 15 Watt
Available colours:	CRI>90 : 2700K, 3000K, 3500K & 4000K	Housing:	Black or white coated aluminium
	CRI>98 : 2700K, 3000K, 3500K & 4000K	Weight:	780 gr
Tunable White:	1800K-4000K & 2700K-6500K	IP value:	IP20
Optics:	12°, 14°, 25, 35° or 55°	Measurements:	See drawing
Power supply:	100 ~ 240 VAC (Roto Dim, DMX, W-DMX)	Ambient temperature:	-10° C till +40° C
	200 ~ 240 VAC (Non Dim, Local Dim)		
	220 ~ 240 VAC (Casambi)		

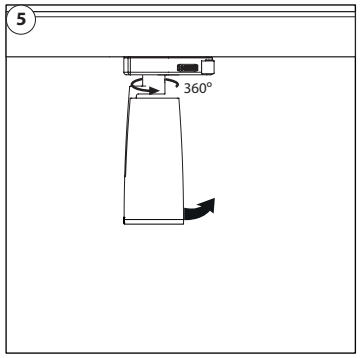
INSTALLATION GLOBAL

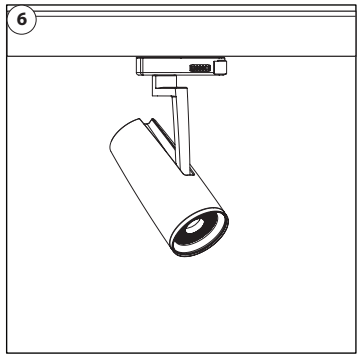




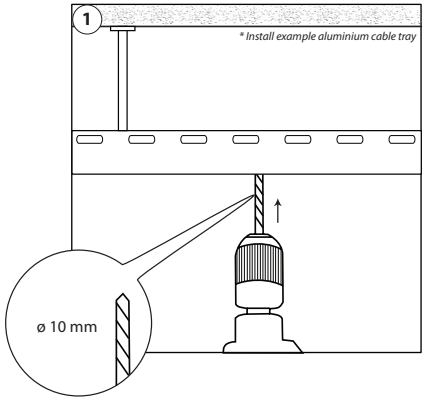


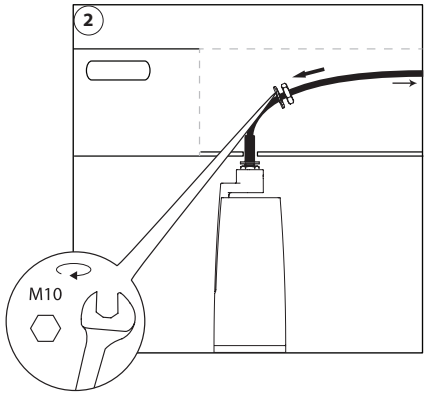


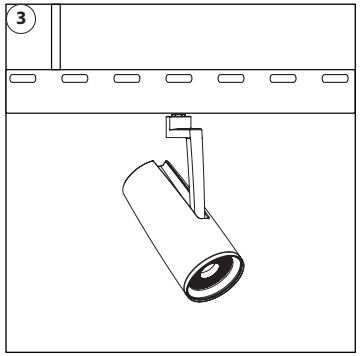




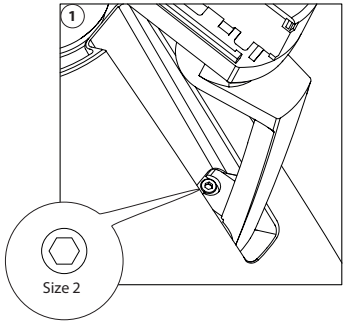
INSTALLATION BOLT

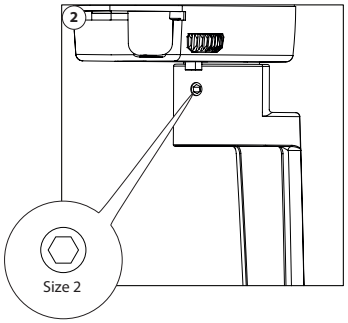




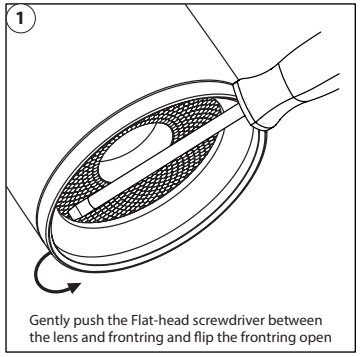


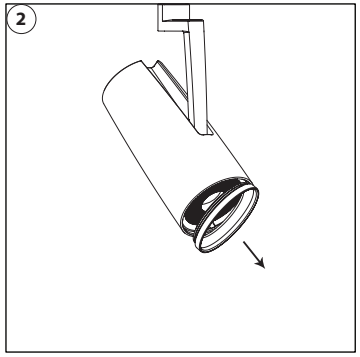
LOCK POSITION

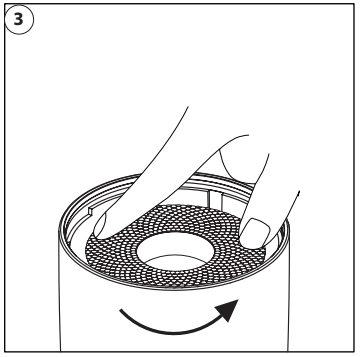


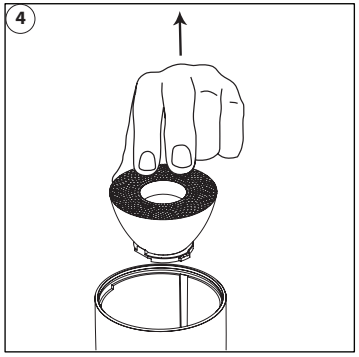


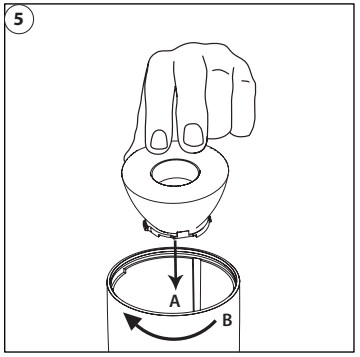
LENS CHANGE

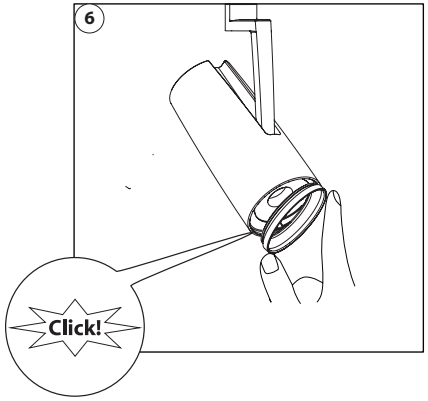




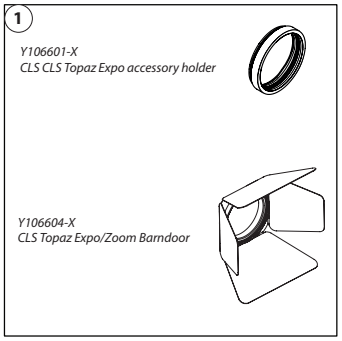


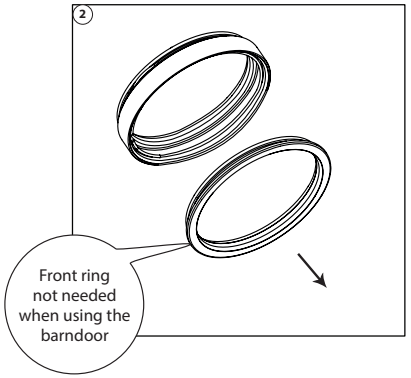


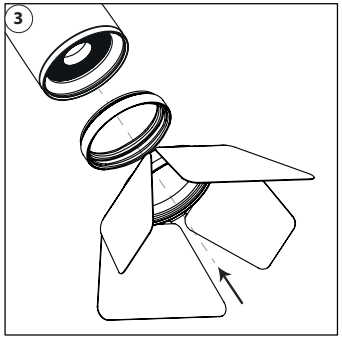


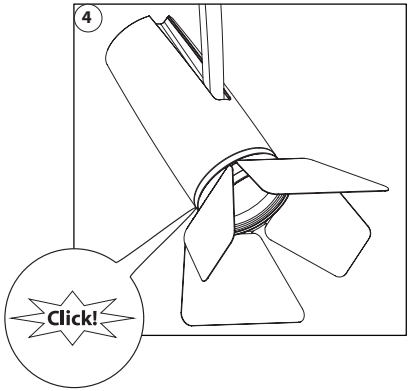


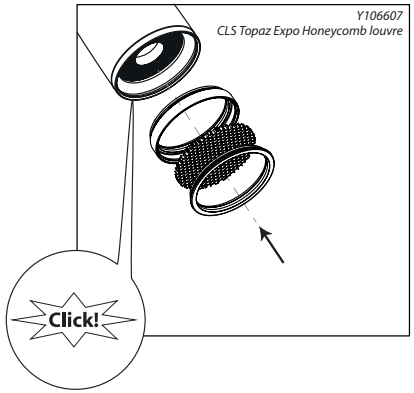
ACCESSORY ASSEMBLY

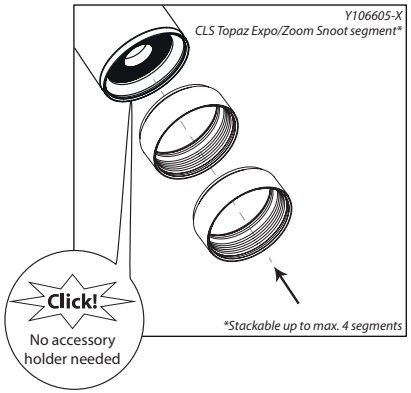




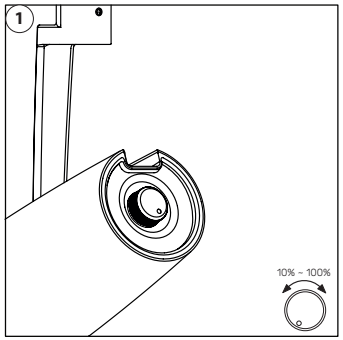






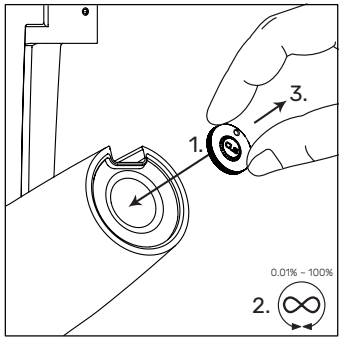


DIM METHODS



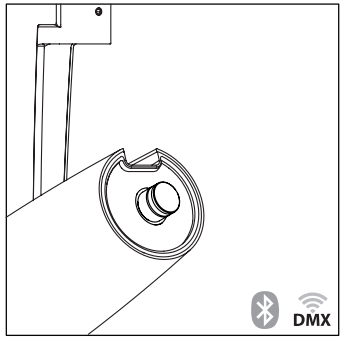
Local Dim

Local dimming through a potentiometer on the driver housing.



Roto Dim®

1. Place magnet on the back of the Topaz.
2. Turn right or left for the desired dimming value.
3. Remove the magnet from the Topaz. After aprox. 3 seconds the LED will flash one time, confirming the dim value has been stored.
4. The magnet can also remain seated on the back of the Topaz. After aprox. 10 seconds the LED will flash one time, confirming the dim value has been stored.



Wireless (antenna)

Control by Casambi via bluetooth or Wireless DMX

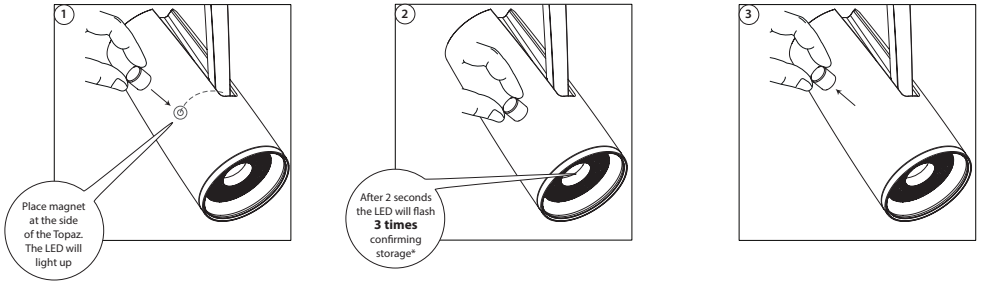
PROGRAMMING

All settings can be configured via DMX. Settings can be configured at once or separately. When one or a couple settings needs to be changed just leave all other setting values zero. This keeps those settings unchanged. Please check the table for more information.

Always use a universal DMX controller with digital interface.

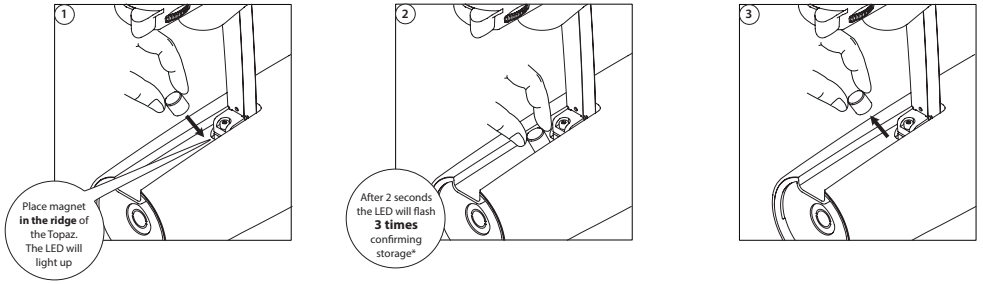
First make sure to set the DATA on the DMX controller. To program the setting into the LED fixture follow the next steps.

DMX single colour programming



* If the LEDs flashes **10 times,** something went wrong. Please try again. If the problem continues to occur, please contact your local sales distributor.

DMX Tunable White programming



* If the LEDs flashes **10 times,** something went went wrong. Please try again. If the problem continues to occur, please contact your local sales distributor.

WIRELESS DMX

See the Manual of Wireless Solutions. The Manual can be found on our CLS website, in the Downloads section. Or use the link below
https://www.cls-led.com/wp-content/uploads/cls-files/W-DMX-manual.pdf

Unlink procedure
When the fixture does not receive a DMX signal (DMX controller off), place the magnet on the bottom of the fixture for 5 seconds. Slow flash indicates that the fixture is unlinked.

PROGRAMMING TABLE

PROGRAMMING TABLE				
DMX	**Function**	**Data**	**Parameters**	**Description**
CH1	Set address 001 to 255	0	0 = no change	Use this DMX channel to set address from 1 to 255.
		1…255	DMX address = 1…255	
CH2	Set address 256 to 508	0	No change	Use this DMX channel to set address from 256 to 508
		1…255	DMX address = 256…508	
CH3	Static behavior	0	No change	If no DMX is present the fixture will respond like set in this function.
		1	Last DMX value	
		2	Output off	
		3	Load static values	
CH4	Soft dim	0	No change	When dynamic softdim is activated an extra DMX channel behind the colours and/or master controls the soft dim reaction. If fixed no extra DMX channel is used. Value x delay is x*0.1 seconds, varying from 0.1-25.5 seconds.
		1	Off	
		2	Standard	
		3	Dynamic delay	
		5-255	Fixed delay	
CH10	Static output	0	No change	Each output channel can be set to a static intensity. If no DMX is present and Static behavior is set to “load static values”. The outputs will be set to the configured intensity values.
		1	Output off	
		2…255	Intensity 2…255	
CH14	Load default settings	0	No change	This function resets all settings to the Factory setting.
		1	Load Factory settings	
CH17	DMX control	0	No change	The intensity control of the output via DMX can be disabled. To enable it again use RDM or power cycle with magnet in place. Wait until flash sequence and remove the magnet.
		2	Disable	

BLUETOOTH BY CASAMBI

For Casambi controlled fixtures, see the manual of Casambi. The Manual can be found on our CLS website, in the Downloads section. Or use the link below:
https://www.cls-led.com/wp-content/uploads/cls-products/CLS_CASAMBI/MANUAL/Manual_Casambi_controlsystem_EN.pdf

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ACCESSORIES

ACCESSORIES

Y110855	CLS 3-phase multi adapter grey XTSA 68
Y110865	CLS 3-phase multi adapter white XTSA 68
Y110875	CLS 3-phase multi adapter black XTSA 68
Y110880	CLS T-connector grey for 3-phaserail, ground left
Y110881	CLS T-connector black for 3-phaserail, ground left
Y110882	CLS T-connector white for 3-phaserail, ground left
Y110925	CLS Global 3-phase rail 1mtr aluminum XTS 4100
Y110926	CLS Global 3-phase rail 2 metre aluminum XTS 4200
Y110927	CLS Global 3-phase rail 2mtr black XTS 4200
Y110928	CLS Global 3-phase rail 3mtr aluminum XTS 4300
Y110929	CLS Global 3-phase rail 4mtr aluminum XTS 4100
Y110930	CLS Global 3-phase rail 3mtr white XTS 4300
Y110931	CLS Global 3-phase rail 3mtr black XTS 4300
Y110932	CLS Global 3-phase rail 4mtr black XTS 4400
Y110935	CLS end piece for 3-phase rail grey XTS 41
Y110938	CLS end piece for 3-phase rail black XTS 41
Y110939	CLS end piece for 3-phase rail white XTS 41-3
Y110945	CLS connection box for 3-phase rail, grey XTS 11
Y110946	CLS connection box for 3-phase rail, grey XTS 12
Y110950	CLS connection box for 3-phase rail black XTS 11
Y110954	CLS L-connector grey for 3-faserail, ground left

Y110954	CLS L-connector grey for 3-faserail, ground left
Y110955	CLS L-connector grey for 3-faserail, ground right
Y110960	CLS connect piece gray (connect rail-rail) XTS
Y110961	CLS connect piece white (connect rail-rail) XTS21
Y110962	CLS connect piece black (connect rail-rail) XTS
Y110965	CLS hanging bracke for 3-phase rail, grey SKB16
Y110966	CLS hanging set, grey SKB12 with 1.5 mtr steel
Y110970	CLS bending tool XTSV 12
Y110980	CLS round mountingdisk GA70 grey
Y110985	CLS round mountingdisk GA70 white
Y110990	CLS round mountingdisk GA70 black
Y106601-B	CLS Topaz Expo accessory holder black
Y106601-W	CLS Topaz Expo accessory holder white
Y106603-B	CLS Topaz Expo/Zoom Snoot segment 20mm black
Y106603-W	CLS Topaz Expo/Zoom Snoot segment 20mm white
Y106604-B	CLS Topaz Expo/Zoom Barndoor black
Y106604-W	CLS Topaz Expo/Zoom Barndoor black
Y106605	CLS Topaz Expo filterholder
Y106606	CLSTopaz EXpo Oval beam shaper set
Y106018	CLS Roto Dim magnet
Y106019	CLS Roto Dim magnet with keycord

ACCESSORY OVERVIEW

If you want the accessories shown in the left column, you need to combine the articles marked with the ✓*

	Y106601-B/W	Y106604-B/W	Y106607	Y106603-B/W	Y106605	Y106606
Barndoor		✓				
Honeycomb	✓		✓			
Snoot				✓		
Filter set	✓				✓	
Oval Beam set	✓				✓	✓

**All accessories can be combined together*

LIST OF SYMBOLS

Protection class
One, two or three

Application area
Indoor or outdoor

Application area
Floor, wall or ceiling

Swivel
Fixture is horizontally rotatable, indicated in degrees

Swivel
Fixture is vertically rotatable, indicated in degrees

Multiple connection
Daisychain connectivity

Installation depth
In centimeters

Installation size
In centimeters

Cable length
Maximum cable attached to the fixture in centimeters

Driver
Inclusive or exclusive
Internal or external

Weight
In grams/kilograms

Pressure
Maximum pressure on the fixture in kg/cm²

Lifespan
Of the light source in hours

Lenses
Availble lenses, indicated in degrees

Performance Zoom
Adjustable beam angle

LEDs
Kind of LED used in the fixture

Plug & play
Easy connection using the SmartConnect system

IP value
Ingress Protection classifies the degrees of protection provided against the intrusion of the product

Colour changing
RGB, RGB-W, RGB-A, AWB or Tunable White

Retail & Food LED modules
Clothing, furniture, kitchens, jewellery, shoes, bread, meat, fish and vegetables & fruit.

Colour
Available colours:
Amber, blue, red or green

White colour temperature
In different Kelvin values:
Cold white, neutral white, warm white or extra warm white

Curve
Minimal bending curve in centimeters

Cutting length
Indicated by the cutting marks

LED pitch
Pitch between the LEDs in millimeters

Power supply
In VDC, VAC or milliAmpere

Power consumption
In VA or Watt

Dimmable
1-10 Volt, Phase, individual, DMX dimmable or DALI

PWM dimming
Traditional PWM dimming, DMX analog or DMX Hybrid dim

Bluetooth controlled
By Casambi

Magno dimming
Accurate dimming from 100 - 1% by using a magnet

Dynamic Control
Dynamic Power Control or Dynamic Temperature Control

DMX input
Fixture works on DMX512 protocol or Wireless DMX

Combined product
Compose your own fixture

Warranty
3 or 5 years warranty on the product

Conformité Européenne
CE marking for free marketability of industrial goods within the EU

Energy label

Lightsource
Equipped with a CLS, Bridgelux or a Xicato LED module