

THORN

LIGHTING

A nighttime photograph of a modern city skyline. Several tall, glass-clad skyscrapers are illuminated with blue and white lights. The lights from the buildings and streetlights along the waterfront are reflected in the calm water in the foreground. The sky is dark blue.

MYSTRID FLEX

HOW TO SPEC GUIDE

MYSTRID FLEX

HOW TO SPECIFY GUIDE

1. LUMINAIRE LENGTHS

Mystrid Flex is offered in various linear fixture lengths:

Single colour white: 300 mm / 600 mm / 900 mm / 1200 mm / 3000 mm / 6000 mm / 10 000 mm

Dynamic white: 300 mm / 600 mm / 900 mm / 1200 mm / 3000 mm

RGBW: 300 mm / 600 mm / 900 mm / 1200 mm / 3000 mm

Each individual fixture is cuttable on site within step increments which are indicated on the physical product:

- Single colour white: 50 mm cutting increments
- Dynamic white: 50 mm cutting increments
- RGBW: 62.5 mm cutting increments.

If cutting luminaires on site, please order Mystrid Flex cutting tool:

SAP Code 21100482



If cutting luminaires on site, in order to maintain IP67 integrity and validate warranty please order end caps to seal every cut point made.

SAP Code 21100480 End cap Top Bend

SAP Code 21100481 End cap Side Bend

2. LINEAR BEND DIRECTION

Mystrid Flex is offered with two different bend directions for maximum integration opportunity into your application design. Please select top bend or side bend and note this cannot be altered.



MYSTRID FLEX LX – SIDE BEND

TOP VIEW



SIDE VIEW

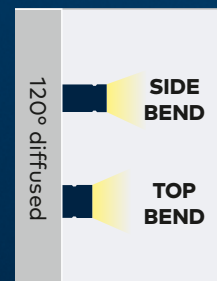
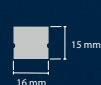


MYSTRID FLEX LX – TOP BEND

TOP VIEW



SIDE VIEW



MYSTRID FLEX

HOW TO SPECIFY GUIDE

3. LUMINAIRE CABLE ENTRY

Mystrid Flex is offered with various cable entries for both Top Bend and Side Bend variants. Please specify the correct cable entry required for the application as this cannot be altered.

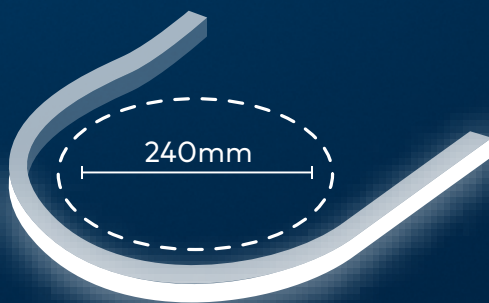
SIDE BEND



TOP BEND



MAXIMUM BENDING DIAMETER



NOTE

If you order a front side or bottom loop version you will get the corresponding cable exit.

LENGTHS

Top and side versions overall length.
All sizes +/- 8 mm.

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4. LUMINAIRE MOUNTING

For mounting applications where a straight linear runs are required, please specify aluminium profile mounting.

Aluminium profile can be cut to length on site to suit the luminaire / linear run length

Aluminium 1 m profile Top Bend SAP Code 21100476

Aluminium 1 m profile Side Bend SAP Code 21100477



For mounting applications where curved linear runs are required, please specify aluminium mounting clips.

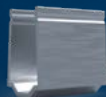
Mounting clip required spacings

Top Bend ceiling mounted: 400 mm

Top Bend wall mounted: 600 mm

Side Bend ceiling mounted: 400 mm

Side Bend wall mounted: 300 mm



Each SAP code includes 2 x mounting clips + 2 x screw fixings

Aluminium clips Top Bend SAP Code 21100478

Aluminium clips Side Bend SAP Code 21100479

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HOW TO SPECIFY GUIDE

5. SERIES / PARALLEL WIRING

Maximum linear length of series wiring:

Single colour white: 10 m

Dynamic white: 5 m

RGBW: 5 m

If using multiple linear luminaires in series wiring, please specify loop in / loop out luminaires on the configurator.

To optimise the installation Mystrid Flex can also be wired in parallel in alignment with the maximum capacity of the driver stated below.

When using parallel wiring, the maximum series length must also be honored.

5.1 Non-dim application require 24 V power supply driver unit only to complete the system installation.

NON DIM 24 V POWER SUPPLY UNIT	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	1.5 m min	7.5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	6.9 m min	17.5 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	16 m min	32 m max parallel

5.2 Dali Dimming applications require 24 V power supply driver unit + Dali decoder to complete the system installation. IP20 drivers must be used within indoor application or professionally installed within an appropriate IP rated enclosure.

DALI 1CH 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	&	21100484 (IP20 24 V Dali 1CH)	1.5 m min	7.5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100484 (IP20 24 V Dali 1CH)	6.9 m min	17.5 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100484 (IP20 24 V Dali 1CH)	16 m min	19.2 m max parallel

DALI 2CH DT8 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	&	21100488 (IP20 24 V Dali 2CH DT8)	1.2 m min	5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100488 (IP20 24 V Dali 2CH DT8)	5.4 m min	11.6 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100488 (IP20 24 V Dali 2CH DT8)	12 m min	12.8 m max parallel

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HOW TO SPECIFY GUIDE

5.2 Contd.

DALI 2CH DT6 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	&	21100489 (IP20 24 V Dali 2CH DT6)	1.2 m min	5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100489 (IP20 24 V Dali 2CH DT6)	11.6 m min	11.6 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100489 (IP20 24 V Dali 2CH DT6)	12 m min	12.8 m max parallel

DALI 4CH 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100487 (IP20 24 V Dali 4CH)	5.4 m min	11.6 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100487 (IP20 24 V Dali 4CH)	16 m min	21.3 m max parallel

5.3 DMX Dimming applications require 24 V power supply driver unit + DMX decoder to complete the system installation.

IP20 drivers must be used within indoor application or professionally installed within an appropriate IP rated enclosure.

DMX 1CH 24 V POWER SUPPLY UNIT		24 V DMX DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	&	21100485 (IP20 24 V DMX 1CH)	1.5 m min	7.5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100485 (IP20 24 V DMX 1CH)	6.9 m min	17.5 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100485 (IP20 24 V DMW 1CH)	16 m min	28.8 m max parallel

DMX 2CH 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100486 (IP20 24 V DMX 2CH)	5.4 m min	11.6 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100486 (IP20 24 V DMX 2CH)	12 m min	12.8 m max parallel

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5.3 Contd.

DMX 4CH 24 V POWER SUPPLY UNIT		24 V DALI DRIVER DE-CODER	MIN LENGTH	MAX LENGTH
SAP CODE 21903619 (IP67 24 V 70 W)	&	21100483 (IP20 24 V DMX 2CH)	1.2 m min	5 m max parallel
SAP CODE 21903620 (IP67 24 V 175 W)	&	21100483 (IP20 24 V DMX 2CH)	5.4 m min	11.6 m max parallel
SAP CODE 21100355 (IP67 24 V 320 W)	&	21100483 (IP20 24 V DMX 2CH)	16 m min	21.3 m max parallel

6. CABLE SPECIFICATION

The maximum distance between start of linear run and driver is defined by the cable size.

The maximum allowable volt drop for Mystrid Flex is 0.5 V.

Please calculate cable size required for the application installation to not be below 0.5 V.

Cable cores

White: 2 core

RGBW: 5 core

Cable size diameter

2 core cable: 5 mm / 20 AWG

5 core cable: 6 mm / 22 AWG

Cable length from luminaire

End of run: 1 m

Loop in loop out: 1 m

MYSTRID FLEX



Product	Length		Colour temp		Optic		Finish	
Mystrid Flex	300 mm	L03	CRI 90 2700 K	927	Top bend	TP	White	WH
	600 mm	L06	CRI 90 3000 K	930	Side bend	SD		
	900 mm	L09	CRI 90 4000 K	940				
	1200 mm	L12	RGBW (3000 K)	RGBW				
	3 m	L30	Dynamic White	DW				
	6 m	L60						
	10 m	L100						

EXAMPLE PRODUCT DESCRIPTION				
Mystrid Flex	L03	927	TP	WH

Supply Cable Entry		Cable Exit		IP Rating	
Front Entry	FRO	End of Run	END	IP67	67
Side Entry	SD	Loop in loop out	LILO		
Bottom Entry BTM					

EXAMPLE PRODUCT DESCRIPTION (CONTINUED)		
FRO	END	67



As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.
thornlighting.com/guarantee

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WE
MAKE
LIGHT
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