

THETA750 SNAP

RECESSED MODULE -
SNAP IN STANDARD WHITE



DESCRIPTION

Theta750 Snap features a patented design with a collapsible thread. With one easy push, the module snaps securely into the rail. Removal is only possible with a unique extraction tool. Most cost effective rail solution on the market. Field or OEM handrail installation. Series shunt bypass ensures remaining operate if single puck failure.

HOUSING

- Extremely durable 316 stainless steel marine grade electro-polished housing, with 3.5" (90mm) 20AWG wire leads.

MOUNTING

- Install in metal surfaces only for proper thermal dissipation. Luminaire is for use in non-insulated recessed surfaces
- Rail Size - min. D 1-3/8", 35mm
- Rail Wall Thickness - min. 1/16", 1.5mm
- Curved or flat mounting surfaces
- Aperture for Flat face - 15mm or 15mm + (16mm x 0.5mm) counterbore (required for flush finish)
- Aperture for Curved face - 15mm or 15mm + (16mm x 1.5mm) counterbore (required for flush finish)

ELECTRICAL/LED Driver

- 3Vdc, 500mA, 1.5W (Remote Driver Required)
- Cool splice connector included
- Ambient operating temperature: -40°C to + 55°C
- Series shunt bypass ensures remaining operate if single puck failure
- 15 Puck maximum per driver

LISTING

- ETLus Listed to UL2108 (suitable for wet locations)
- cETL Listed to CSA C22.2 #250.0
- Impact tested to IK10 (EN62262) PC lens only
- IP65 rated with PC lens
- IP67 rated with Borosilicate glass lens
- IP68 rated to 6.5ft at 24hrs (NOT FOR PERMANENT SUBMERSION)
- ADA Compliant when using handrail diameter 1-7/16" (36mm) to 2" (50.8mm) O.D
- 3000k or warmer must be selected for International Dark-Sky Association approval.

LED INFO

- LED: Cree Xlamp®XP-G3 (applicable for Standard White)
- Cree Xlamp® XP-GA (Amber-590nm *Dominant Wavelength* complies with Wildlife and Marine Turtle safe-lighting requirements)
- Duv: 0.001
- CCT: 2700K, 3000K, 3500K, 4000K, amber
- CRI: >80
- Lumen Maintenance: L₉₀> 90,700 hrs (Standard White)
- Warranty: 5 year limited warranty

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

ORDERING CODE

SERIES	750S	snap puck
CCT	27K 30K 35K 40K AMB BL GR RD	2700K 3000K 3500K 4000K amber blue green red
BEAM	ST ¹ VA ¹ WD DRA UNI ^{2,3,4}	70° standard 75° asymmetric 105° wide 70° deep regress asymmetric 65° high uniformity asymmetric
LENS	PC BG IP68	polycarbonate - IP65 borosilicate glass - IP67 optically clear polyurethane - IP68
BEZEL COLOR	AG SF	anti-glare coating - black (0.56) electropolished stainless steel (1.00)
FACE TYPE	CF FF	curved face flat face

ORDERING CODE

Follow the steps to specify your fixture, example:

750S - 27K - ST - PC - SF - FF

LUMENS FOR ST/VA/WD BEAM OPTION	
LUMENS (LM)	CCT (K)
165	2700
170	3000
175	3500
180	4000
145	amber

LUMENS FOR DRA BEAM OPTION	
LUMENS (LM)	CCT (K)
130	2700
135	3000
140	3500
145	4000
115	amber

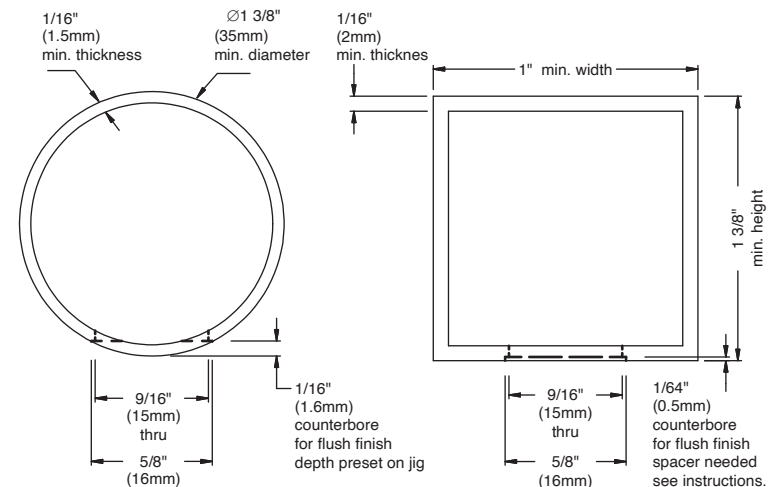
LUMENS FOR IP68 LENS OPTION	
LUMENS (LM)	CCT (K)
115	2700
120	3000
125	3500
130	4000
102	amber

LUMENS FOR UNI BEAM OPTION	
LUMENS (LM)	CCT (K)
130	2700
135	3000
140	3500
145	4000

See page 9 for Design Guide.

NOTES

1. ST 60° and VA 65° when using IP68 Lens.
2. UNI not available with Lens, omit code.
3. Not vandal resistant or IK10 rated.
4. AG coating not available with UNI.



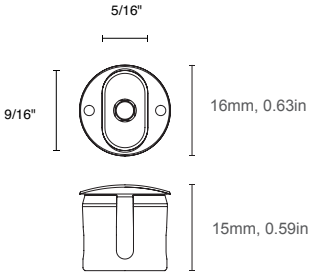
alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

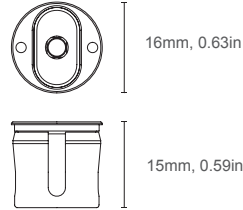
STANDARD WHITE - STANDARD BEAM

THETA750 Snap Standard has an elliptical symmetric distribution. For installation in handrail, mounting is typically at 30° from the vertical axis of the handrail underside. Snap is available in a range of distributions and special angles on request. Asymmetrical beam, see page 3.

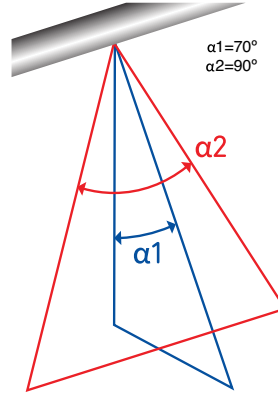
THETA750 SNAP ST - STANDARD WHITE
CURVED FACE DETAIL



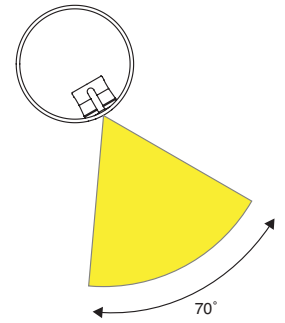
THETA750 SNAP ST - STANDARD WHITE
FLAT FACE DETAIL



THETA750 SNAP ST - STANDARD WHITE
BEAM ALPHA 3000K

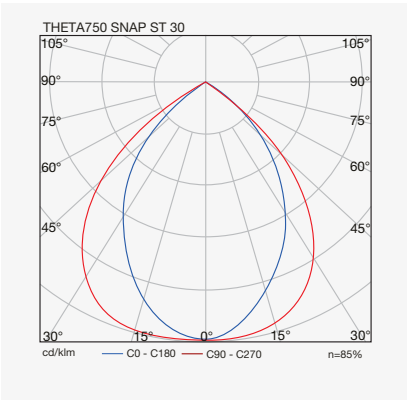


THETA750 SNAP ST - STANDARD WHITE
STANDARD BEAM

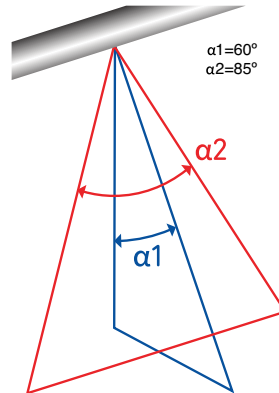


Elliptical symmetric distribution for typical mounting at 30° from vertical.

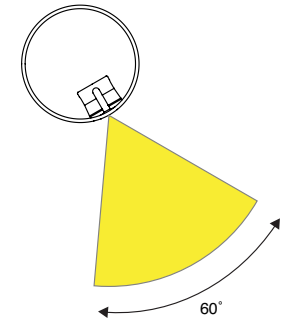
THETA750 SNAP ST 30
STANDARD SYMMETRICAL BEAM 3000K



THETA750 SNAP ST - STANDARD WHITE IP68
BEAM ALPHA 3000K

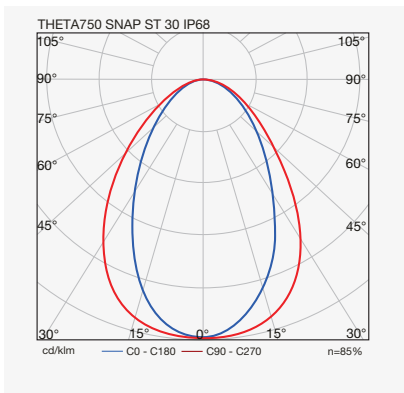


THETA750 SNAP ST - STANDARD WHITE
STANDARD BEAM IP68



Elliptical symmetric distribution for typical mounting at 30° from vertical.

THETA750 SNAP ST 30 IP68
STANDARD SYMMETRICAL BEAM 3000K



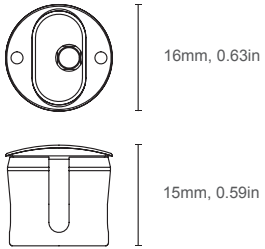
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PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

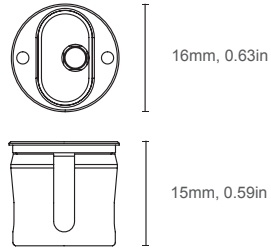
STANDARD WHITE - ASYMMETRICAL BEAM

THETA750 Snap Asymmetric has an elliptical asymmetric distribution. Designed for insertion at 0-10 degrees from the vertical axis of the handrail underside. The asymmetric beam illuminates the path but keeps the light source out of sight. Snap is available in a range of standard distributions and special angles on request.

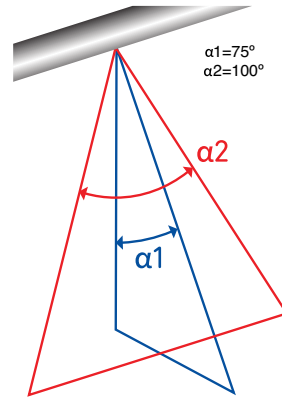
THETA750 SNAP VA - STANDARD WHITE CURVED FACE DETAIL



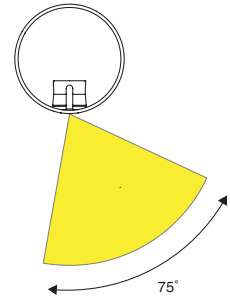
THETA750 SNAP VA - STANDARD WHITE FLAT FACE DETAIL



THETA750 SNAP VA - STANDARD WHITE BEAM ALPHA 3000K

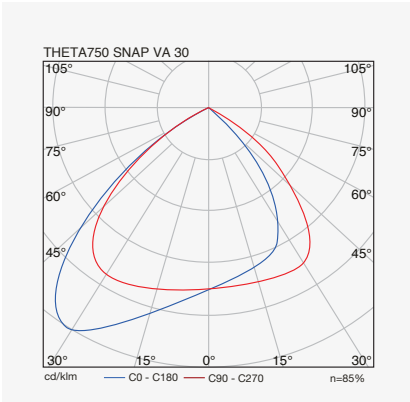


THETA750 SNAP VA - STANDARD WHITE ASYMMETRICAL BEAM

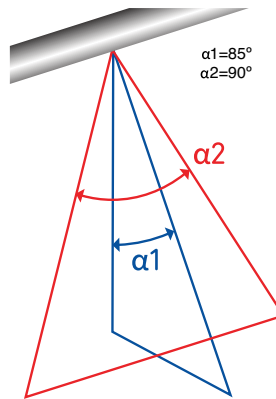


Elliptical asymmetric distribution displayed here with a vertical mount.

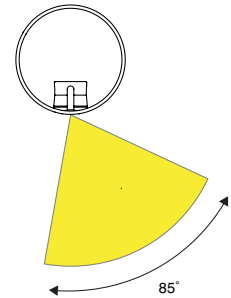
THETA750 SNAP VA 30 ASYMMETRICAL BEAM 3000K



THETA750 SNAP VA - STANDARD WHITE IP68 BEAM ALPHA 3000K

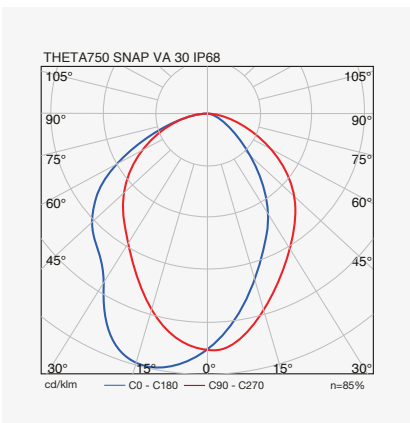


THETA750 SNAP VA - STANDARD WHITE ASYMMETRICAL BEAM IP68



Elliptical asymmetric distribution displayed here with a vertical mount.

THETA750 SNAP VA 30 IP68 ASYMMETRICAL BEAM 3000K



alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

STANDARD WHITE - WIDE BEAM

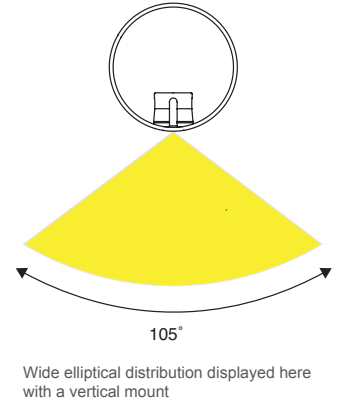
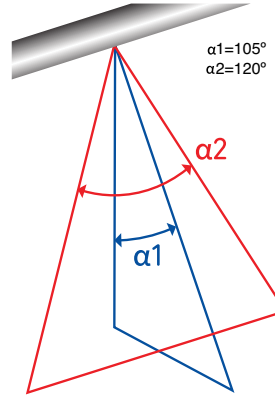
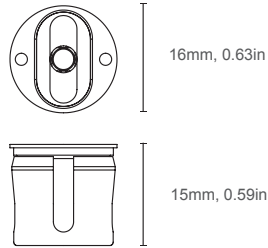
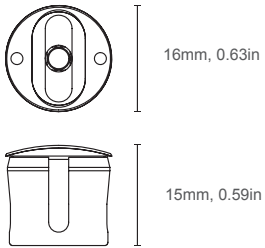
THETA750 Snap Wide has a specially designed very wide elliptical distribution with no sharp cut off. Typical for mounting in the underside of a handrail at vertical down position.

THETA750 SNAP WD - STANDARD WHITE CURVED FACE DETAIL

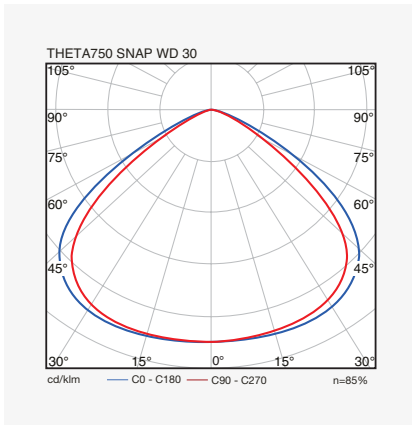
THETA750 SNAP WD - STANDARD WHITE FLAT FACE DETAIL

THETA750 SNAP WD - STANDARD WHITE BEAM ALPHA 3000K

THETA750 SNAP WD - STANDARD WHITE WIDE BEAM



THETA750 SNAP WD 30 WIDE BEAM 3000K



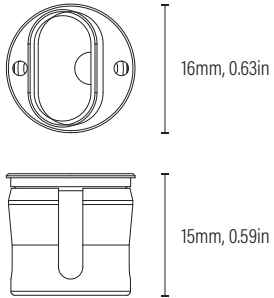
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PROJECT INFORMATION		
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ORDERING CODE		

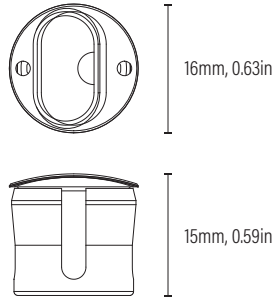
STANDARD WHITE - DEEP REGRESS ASYMMETRIC BEAM

THETA750 Snap Deep Regress has an elliptical asymmetric distribution. Designed for insertion at 0-10 degrees from the vertical axis of the handrail underside. The asymmetric beam illuminates the path but keeps the light source out of sight. Hyperbolic is available in a range of standard distributions and special angles on request.

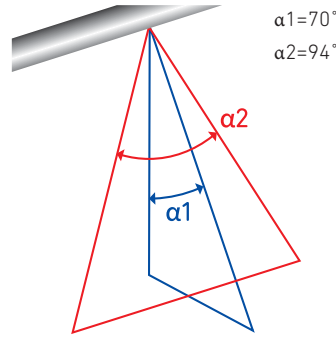
THETA750 SNAP DRA - STANDARD WHITE
CURVED FACE DETAIL



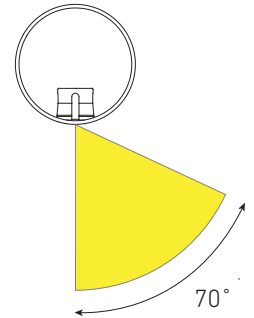
THETA750 SNAP DRA - STANDARD WHITE
FLAT FACE DETAIL



THETA750 SNAP DRA - STANDARD WHITE
BEAM ALPHA 3000K



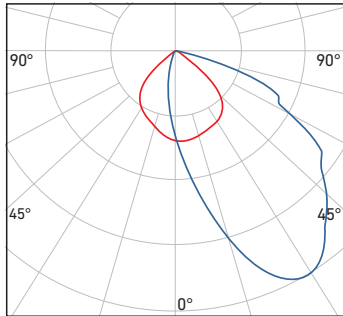
THETA750 SNAP DRA - STANDARD WHITE
ASYMMETRICAL BEAM



Elliptical asymmetric distribution displayed here with a vertical mount.

THETA750 SNAP HYP 30
HYPERBOLIC BEAM 3000K

ASYMMETRIC BEAM 4000K



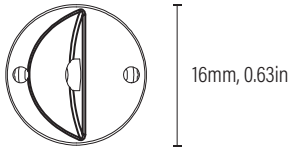
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PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

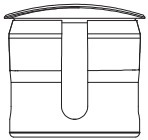
STANDARD WHITE - UNI BEAM

THETA750 Snap UNI has a high uniformity asymmetric distribution. Designed for insertion at 0 degrees from the vertical axis of the handrail underside. UNI applications are best where uniformity is required with long distances between pucks and/or between rails.

THETA750 SNAP UNI - STANDARD WHITE
CURVED FACE DETAIL

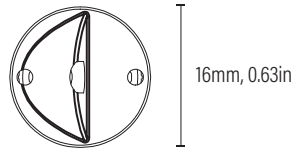


16mm, 0.63in

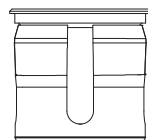


15mm, 0.59in

THETA750 SNAP UNI - STANDARD WHITE
FLAT FACE DETAIL

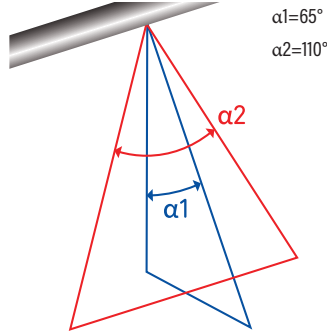


16mm, 0.63in

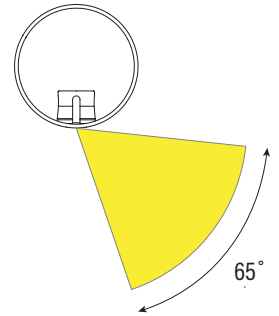


15mm, 0.59in

THETA750 SNAP UNI - STANDARD WHITE
BEAM ALPHA 3000K



THETA750 SNAP UNI - STANDARD WHITE
ASYMMETRICAL BEAM



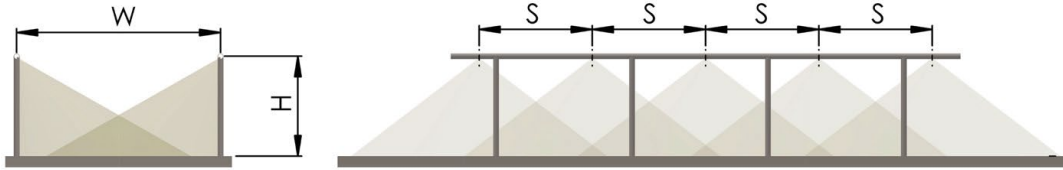
Elliptical asymmetric distribution displayed here with a vertical mount.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

SPACING GUIDE

The following guide is intended to help designers and engineers with desired foot-candle levels. The drawing to the right shows a typical installation into a handrail. The tables list the average foot-candles at a variety of path widths and LED spacings

TYPICAL INSTALLATION



Height (H) is at 3'-1/4"

STANDARD WHITE - STANDARD BEAM IP65-67/IP68-AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	32/18	19/11	13/7	10/5
3ft	16/9	10/5	6/3.5	5/2.7
6.5ft	8/4.5	5/2.7	3/1.8	2/1.3

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module installed at 30° offset from vertical down axis.

STANDARD WHITE - ASYMMETRICAL BEAM IP65-67/IP68-AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	27/16	16/9.5	11/6.3	8/4.7
3ft	14/8	8/4.7	5/3	4/2.4
6.5ft	7/4	4/2.4	3/1.5	2/1.2

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

STANDARD WHITE - WIDE BEAM / AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	21/12	12/7	8/4.5	6/3.5
3ft	10/5.5	6/3.5	4/2.5	3/2
6.5ft	5/3	3/2	2/1	1.5/1

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

STANDARD WHITE - DEEP REGRESS ASYMMETRIC BEAM / AG: LIGHT FROM BOTH SIDES

PATH WIDTH (W)	4ft	6.5ft	10ft	13ft
LED SPACING (S)	fc	fc	fc	fc
1.5ft	25/15	15/9	10/6	8/4.5
3ft	13/7.5	8/4.5	5/3	4/2.5
6.5ft	6/4	5/2.5	2.5/1.5	2/1

fc = average foot-candles
CCT = 3000K
NOTE: Calculations indicated are with LED module in vertical down position.

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

THETA750 SNAP TOOL KIT - FOR ROUND OR SQUARE HANDRAIL



Product Number: 750-TOOL KIT THETA SNAP

- 1 1 x Drill Jig unit pre-installed with 1 x 15 and 16mm cutters
- 2 1 x Flat Face Spacer (for use ONLY with Flat face / Square Pipe).
Not Shown.
- 3 1 x Drilling manual (this guide)
- 4 2 x 15mm cutters (spares)
- 5 1 x 16mm cutter (spare)
- 6 1 x Cutter removal tool (double-sided)
- 7 1 x 2mm Allen (hex) key
- 8 2 x cutting lubricant
- 9 1 x AF 10mm nut driver
- 10 1 x 10mm wrench
- 11 1 x Insertion pliers
- 12 1 x File

* Not shown, wire crimping pliers.

Purchases

- It is strongly recommended to purchase a kit or multiple kits for larger projects or projects with several phases.
- Additional drill bits jig assemblies can be purchased at nominal cost to replace worn or ineffective parts. CONSULT FACTORY.

NO TOOL KIT REQUIRED - FOR FLAT SURFACES

- Drill 15mm hole in mounting surface

alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

REMOTE DRIVE - 0-10V ORDERING CODE

PART NUMBER	P70414	LED driver with box
CURRENT	500	500mA
DIMMING	ECO SOLO	1% 0.1%

ORDERING CODE

Follow the steps to specify your fixture, example:
P70414 - 500 - ECO

See Wiring Diagram on page 2.

MAXIMUM PUCK WIRING DISTANCE (15 PUCKS AT 500MA)

PUCKS	AWG VALUE	DISTANCE ¹ (FT)
15	20	300
15	18	600

MAXIMUM WIRING DISTANCE FROM DRIVER TO THE FIRST PUCK

AWG VALUE	DISTANCE (FT)
18	150
16	250
14	400
12	600
10	1000

NOTES

1. Maximum wiring distance from the first to the last puck.

DESCRIPTION

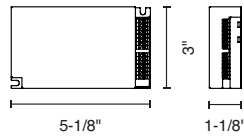
- 0-10V dimmable protocol LED drive with smooth flicker free dimming

TECHNICAL SPECS

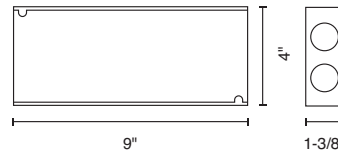
- 120-277Vac, 50/60Hz input
- 50W max output
- 500mA DC constant current output per channel
- 2-55Vdc output per channel
- ECO 1% dimming - 1 channel output
- Solo 0.1% dimming - 2 channel output
- 0-10V compatible
- Operating temperature: -4°F to 122°F
- Class II rated
- Suitable for use in damp and dry locations
- Short circuit protection
- Overload protection
- Over-voltage protection
- Thermal protection
- Box: Length = 9", Width = 4", Height = 1-3/8"
- Driver: Length = 5-1/8", Width = 3", Height = 1-1/8"

LISTINGS

- ETLus Listed to UL2108 (suitable for dry and damp locations)
- cETL Listed to CSA C22.2 #250.0



ECO or SOLO 561/S



Box

REMOTE DRIVE - DALI ORDERING CODE

PART NUMBER	P70469	LED driver with box
CURRENT	500	500mA
DIMMING	ECO SOLO	1% 0.1%

ORDERING CODE

Follow the steps to specify your fixture, example:
P70469 - 500 - ECO

See Wiring Diagram on page 2.

MAXIMUM PUCK WIRING DISTANCE (15 PUCKS AT 500MA)

PUCKS	AWG VALUE	DISTANCE ¹ (FT)
15	20	300
15	18	600

MAXIMUM WIRING DISTANCE FROM DRIVER TO THE FIRST PUCK

AWG VALUE	DISTANCE (FT)
18	150
16	250
14	400
12	600
10	1000

NOTES

1. Maximum wiring distance from the first to the last puck.

DESCRIPTION

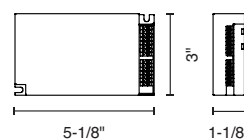
- DALI dimmable protocol LED drive with smooth flicker free dimming

TECHNICAL SPECS

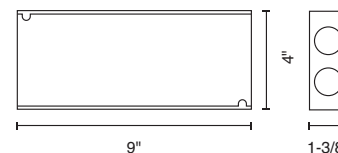
- 120-277Vac, 50/60Hz input
- 50W max output
- 500mA DC constant current output per channel
- 2-55Vdc output per channel
- ECO 1% dimming - 1 channel output
- Solo 0.1% dimming - 2 channel output
- DALI compatible
- Operating temperature: -4°F to 122°F
- Class II rated
- Suitable for use in damp and dry locations
- Short circuit protection
- Overload protection
- Over-voltage protection
- Thermal protection
- Box: Length = 9", Width = 4", Height = 1-3/8"
- Driver: Length = 5-1/8", Width = 3", Height = 1-1/8"

LISTINGS

- ETLus Listed to UL2108 (suitable for dry and damp locations)
- cETL Listed to CSA C22.2 #250.0



ECO or SOLO 561/S



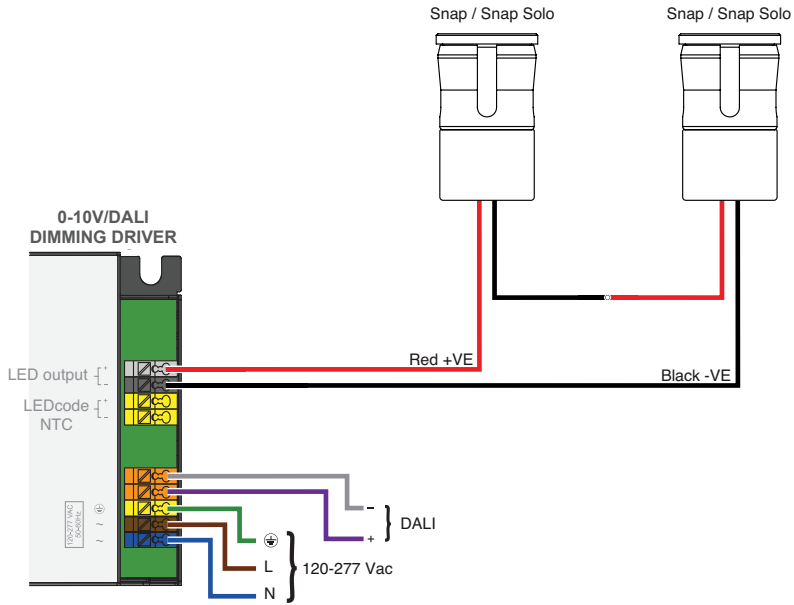
Box

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

WIRING DIAGRAM

ECO



SOLO

