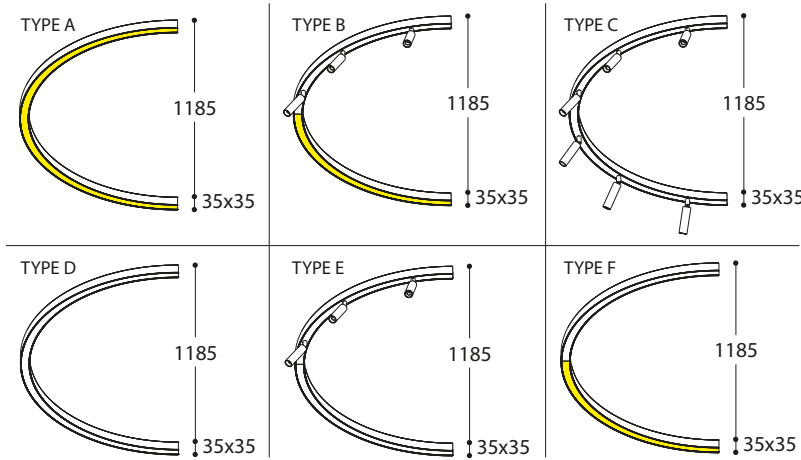


NAME	RINGO 1185 SURFACE / SUSPENSION	
SPECIFICATIONS	Lamptype	ledline = curved led array, spot = Luxeon M or BR.LUX (LES 9)
	Symbol	
	CCT	2700K - 3000K - 4000K / spot (see manual)
	Luminous flux	ledline = 4160lm per 180° (A), per spot = see manual
	Power	ledline = 38W per 180° (A), per spot = see manual
	Voltage	230V 50-60Hz AC
	CRI	ledline = 80, spot = 90
	SDCM	3
	Beamangle	ledline = lambertian, spot = 36°
	Orientability	only for spot = 359° rotating & 90° tilting
	Gear	see installation type
	Dimmability	depending on base
	Safe distance to object	0,1m
	Class / IP	IP20
	Application	interior - surface / suspended



SEE ALL REFERENCES PER TYPE ON NEXT PAGES

!

IMPOSSIBLE COMBINATIONS:

- TYPE C + C

- TYPE D + D

- TYPE C + E

- TYPE D + F

!

ALWAYS DISCONNECT MAINS POWER SUPPLY FROM CONVERTER BEFORE SWITCHING "ON" LED LUMINAIRES TO PREVENT HOT PLUGGING ISSUES!

POSSIBLE INSTALLATION SCENARIO'S	
DESCRIPTION	PAGE
SUSPENSION CI	1
SUSPENSION WC	4
SURFACE MOUNTED CI	6
SURFACE MOUNTED WC	9
FELT ACCESSORY	10

NL Installatie- en onderhoudsrichtlijnen m.b.t. de fabrieksgarantie.

- De plaatsing, de aansluiting en het uittesten van dit toestel dient steeds te gebeuren door een erkend elektro-installateur.
- Dit toestel moet geïnstalleerd, verbonden en getest worden volgens de nationaal geldende reglementen op elektrische installaties.
- De technische bijsluiter dient te worden beschouwd als een onderdeel van de algemene verkoopsvoorwaarden van TAL nv.
- De elektro-installateur is verantwoordelijk voor het gebruik van compatibele voorschakelapparatuur die voldoen aan de geldende IEC normen.
- Reinig het toestel enkel met een zachte en lichtvochtige doek zonder reinigingsmiddel.
- Schakel altijd eerst de elektriciteit uit alvorens het toestel te plaatsen en te installeren.

INSTALLATION

SUSPENSION CI

1 .MOUNT BRACKET TO CEILING VIA DRILL PATTERN
.MAKE PRIMARY ELECTRICAL CONNECTION IN CONNECTOR A (3p or 5p for 1-10V dimm)
(see wiring schemes on next page & LEAVE UNSWITCHED)

DRILL PATTERN

BRACKET

2 PREPARE SUSPENSION WIRES (4x @90°)
AND SCREW KNURLED KNOBS TO BRASS INSERTs (M5)
ON TOP OF RINGO PROFILE

STEEL WIRE
(4x)
RINGO PROFILE

3 ADJUST LED SUPPLY CABLE LENGTH
AND FASTEN STRAIN RELIEF ON INSIDE OF CEILING HOUSING

connector(s) B
CEILING HOUSING
LED SUPPLY
(2p or 4p)

4 .PUSH 4 STEEL WIRES THROUGH HOLES IN CEILING HOUSING
AND INTO WIRE CLAMPS ON BRACKET

.FINE ALIGN RINGO PROFILE HORIZONTALLY

.CUT STEEL WIRES ONCE SUSPENSION HEIGHT IS DETERMINED
(leave 15mm)

15mm
CEILING HOUSING
LED SUPPLY
(2p or 4p)
PENDING RANGE:
MIN: 850mm
MAX: 4000mm

5 .MAKE SECONDARY ELECTRICAL CONNECTION(s) IN CONNECTOR(s) B
.MAKE EARTHING CONNECTION FROM HOUSING IN CONNECTOR A
(see wiring schemes on next page)

connector(s) B: (2p or 4p)
CLICK
LEDLINE
CONVERTER
CLICK
SPOT
CONVERTER
don't use white wire

6 PUSH CEILING HOUSING GENTLY ONTO THE CEILING BRACKET UNTIL IT SNAPS OVER THE 2 LEAF SPRINGS, APPLY LITTLE TWIST UNTIL CEILING HOUSING IS FITTED PROPERLY AGAINST CEILING

CEILING HOUSING

7 SWITCH ON MAINS POWER SUPPLY
(ORIENT SPOT LUMINAIRES)

EN Installation and maintenance instructions regarding the manufacturer's warranty.

- Installation, connection and testing of this product must always be performed by a certified electrician.
- This product must be installed, connected and tested in accordance with the applicable national regulations for electrical installations.
- The technical manual must be regarded as part of the general sales conditions of TAL nv.
- The electrical installer is responsible for the use of compatible control gear that meets the applicable IEC standards.
- Only clean the device with a soft and slightly moist cloth without detergent.
- Always switch off the electricity supply before installing and connecting the product.

FR Instructions d'installation et d'entretien concernant la garantie du fabricant.

- L'installation, la connexion et les essais de cet appareil doivent toujours être effectués par un électricien reconnu.
- Cet appareil doit être installé, raccordé et testé conformément aux réglementations nationales pour les installations électriques.
- La notice technique doit être considérée comme faisant partie des conditions générales de vente de TAL SA.
- L'installateur électrique est responsable de l'utilisation d'un équipement de contrôle compatible qui satisfait aux normes CEI applicables.
- Nettoyez l'appareil uniquement avec un chiffon doux et légèrement humide sans détergent.
- Éteignez toujours l'électricité avant d'installer et de connecter l'appareil.

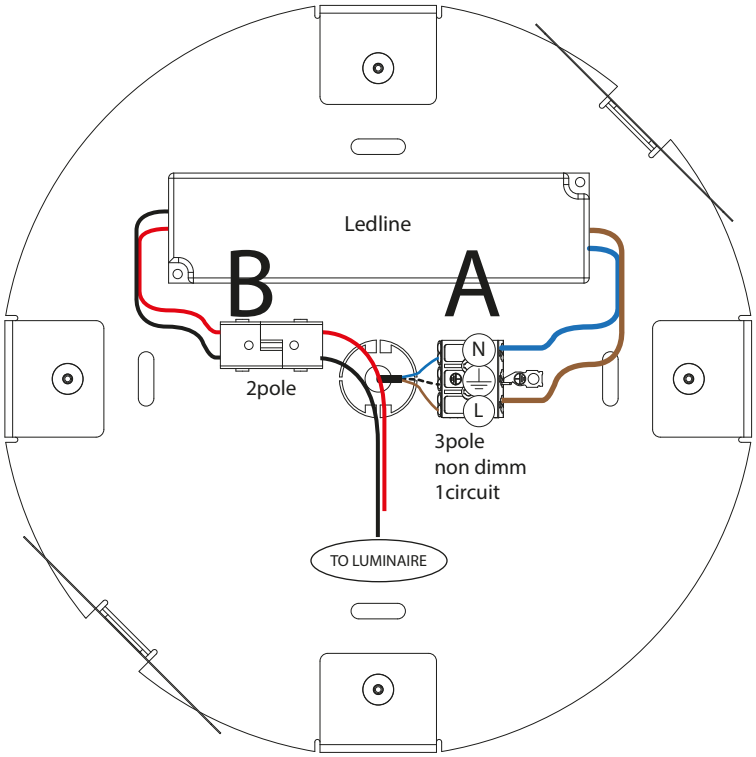
DE Installations- und Wartungsanweisungen bezüglich der Herstellergarantie.

- Installation, Anschluß und Prüfung dieses Geräts soll nur von einem anerkannten Elektriker ausgeführt werden.
- Dieses Gerät soll in Übereinstimmung mit den nationalen geltenden Vorschriften für Elektroinstallationen installiert, angeschlossen und geprüft werden.
- Die technische Anleitung muß als Teil der allgemeinen Verkaufsbedingungen von TAL nv betrachtet werden.
- Der Elektroinstallateur ist verantwortlich für die Verwendung von kompatibelen Betriebsgeräten, die den geltenden IEC-Normen entsprechen.
- Reinigen Sie das Gerät nur mit einem weichen und leicht feuchten Tuch ohne Reinigungsmittel.
- Schalten Sie den Strom immer aus, bevor Sie das Gerät installieren und anschließen.

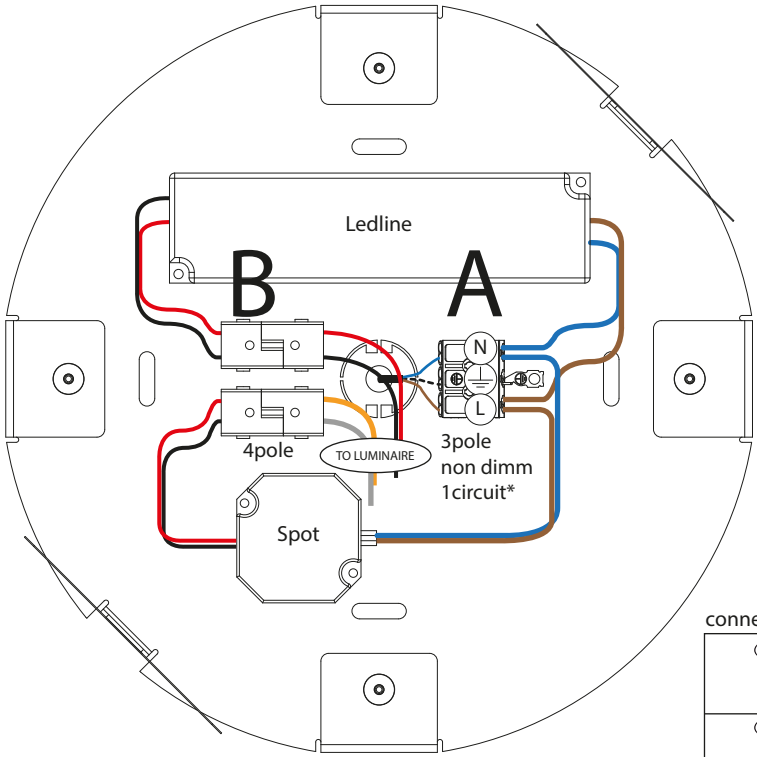
SUSPENSION CI

6 POSSIBLE WIRING SCHEMES FOR RINGO 1185 BASES:

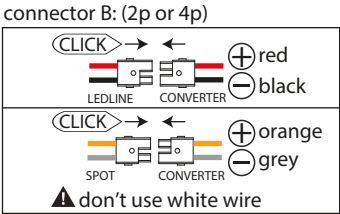
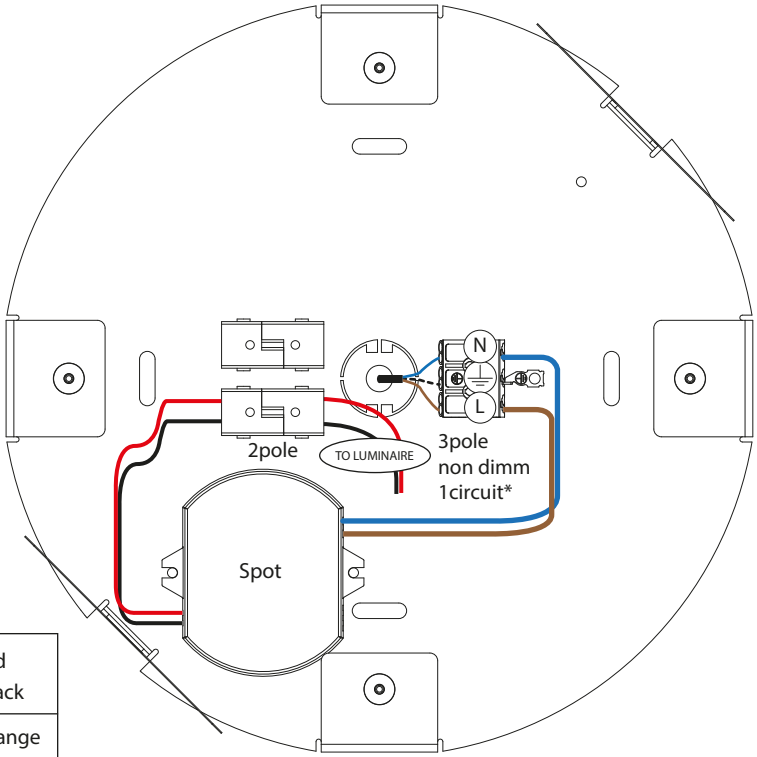
28830X / 29830X
Ringo Base Ledline



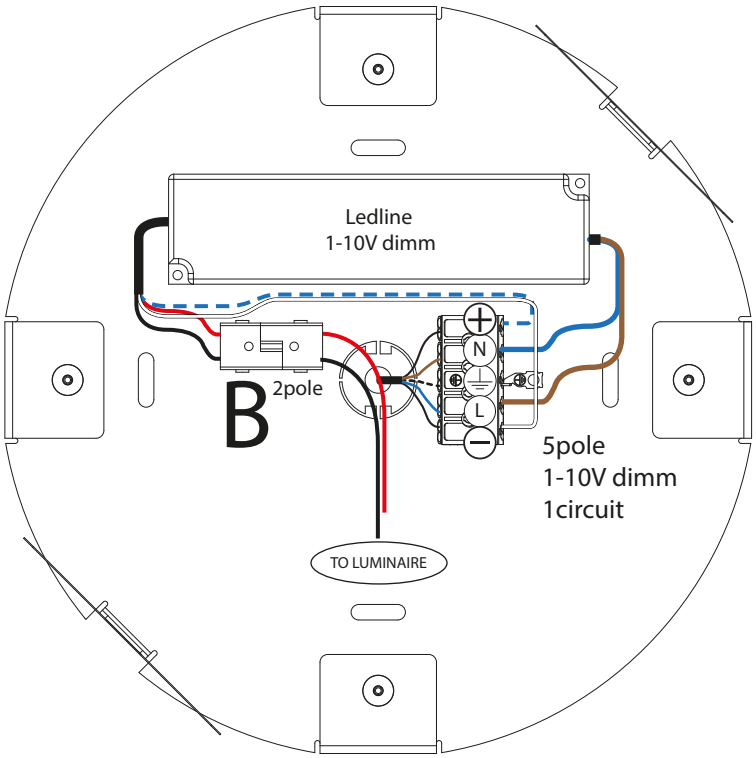
28831X / 29831X / 28832X / 29832X
Ringo Base Ledline + Spot



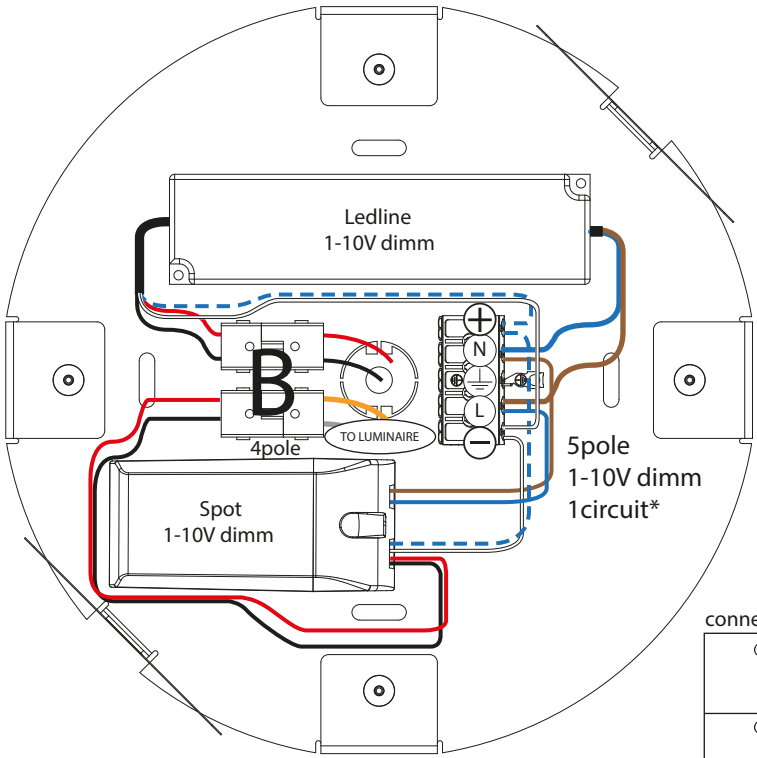
28836X / 29836X
Ringo Base Spot



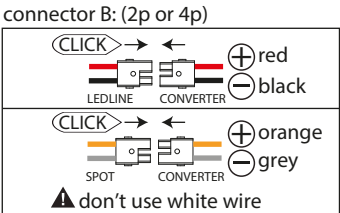
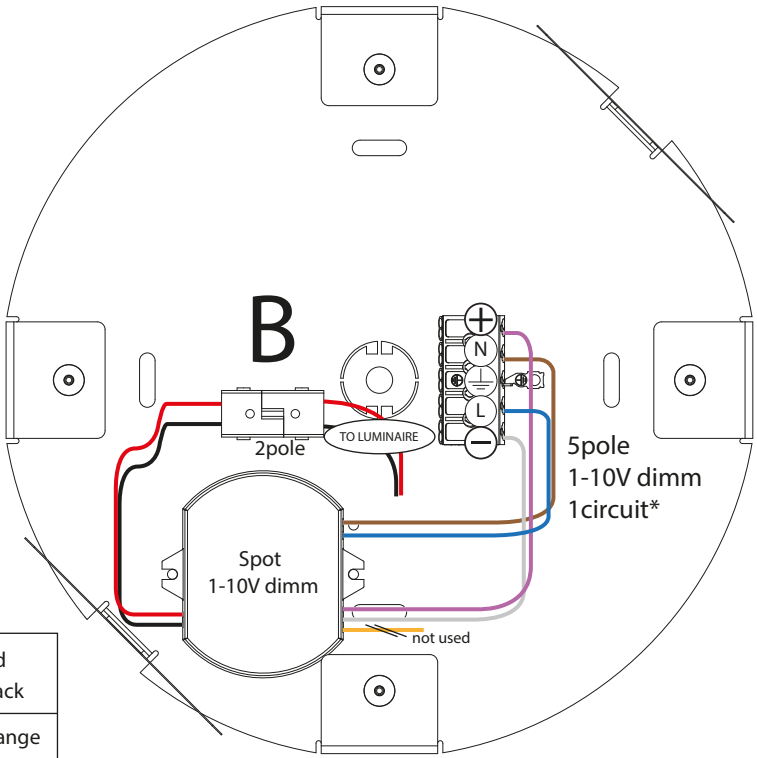
28833X / 29833X
Ringo Base Ledline 1-10V DIMM



28834X / 29834X / 28835X / 29835X
Ringo Base Ledline + Spot 1-10V DIMM



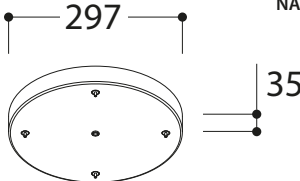
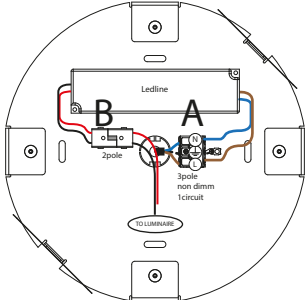
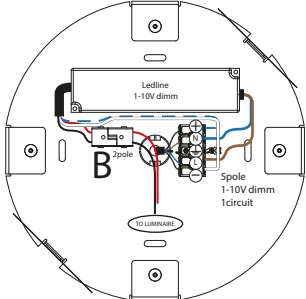
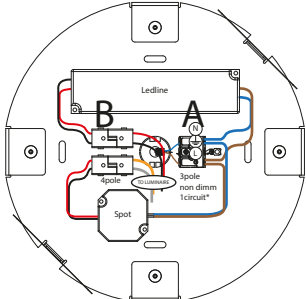
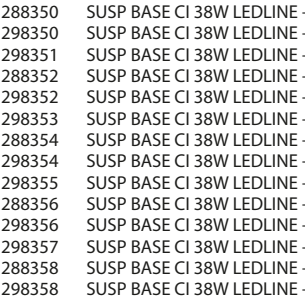
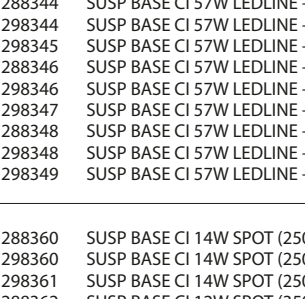
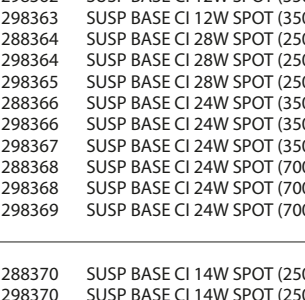
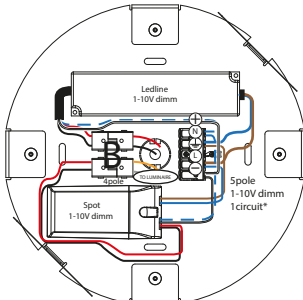
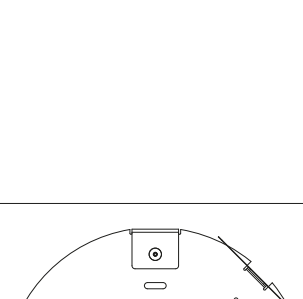
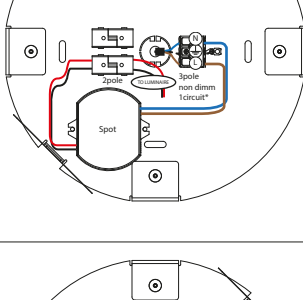
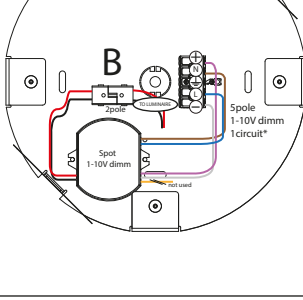
28837X / 29837X
Ringo Base Spot 1-10V DIMM



⚠ *extra primary circuit is possible on request

⚠ *extra primary circuit is possible on request

SUSPENSION CI

	NAME		RINGO 1185 SUSPENSION CI BASE			
			ARTICLE RANGE			
	288300	SUSP BASE CI 38W LEDLINE	ANODIC BROWN			
	298300	SUSP BASE CI 38W LEDLINE	TEXT. BLACK			
	298301	SUSP BASE CI 38W LEDLINE	TEXT. WHITE			
	288303	SUSP BASE CI 57W LEDLINE	ANODIC BROWN			
	298303	SUSP BASE CI 57W LEDLINE	TEXT. BLACK			
	298304	SUSP BASE CI 57W LEDLINE	TEXT. WHITE			
	288306	SUSP BASE CI 76W LEDLINE	ANODIC BROWN			
	298306	SUSP BASE CI 76W LEDLINE	TEXT. BLACK			
	298307	SUSP BASE CI 76W LEDLINE	TEXT. WHITE			
		288330	SUSP BASE CI 38W LEDLINE 1-10V DIMM	ANODIC BROWN		
298330		SUSP BASE CI 38W LEDLINE 1-10V DIMM	TEXT. BLACK			
298331		SUSP BASE CI 38W LEDLINE 1-10V DIMM	TEXT. WHITE			
288333		SUSP BASE CI 57W LEDLINE 1-10V DIMM	ANODIC BROWN			
298333		SUSP BASE CI 57W LEDLINE 1-10V DIMM	TEXT. BLACK			
298334		SUSP BASE CI 57W LEDLINE 1-10V DIMM	TEXT. WHITE			
288336		SUSP BASE CI 76W LEDLINE 1-10V DIMM	ANODIC BROWN			
298336		SUSP BASE CI 76W LEDLINE 1-10V DIMM	TEXT. BLACK			
298337		SUSP BASE CI 76W LEDLINE 1-10V DIMM	TEXT. WHITE			
		288320	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN		
	298320	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK			
	298321	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE			
	288322	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN			
	298322	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK			
	298323	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE			
	288324	SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA)	ANODIC BROWN			
	298324	SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA)	TEXT. BLACK			
	298325	SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA)	TEXT. WHITE			
	288326	SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA)	ANODIC BROWN			
	298326	SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA)	TEXT. BLACK			
	298327	SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA)	TEXT. WHITE			
	288328	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN			
	298328	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK			
	298329	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE			
	288314	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN			
	298314	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK			
	298315	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE			
	288316	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN			
	298316	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK			
	298317	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE			
	288318	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN			
	298318	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK			
	298319	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE			
		288350	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN		
		298350	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK		
		298351	SUSP BASE CI 38W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE		
		288352	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN		
		298352	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK		
		298353	SUSP BASE CI 38W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE		
288354		SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN			
298354		SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK			
298355		SUSP BASE CI 38W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	TEXT. WHITE			
288356		SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN			
	298356	SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	TEXT. BLACK			
	298357	SUSP BASE CI 38W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE			
	288358	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN			
	298358	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK			
	298359	SUSP BASE CI 38W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE			
	288344	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN			
	298344	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK			
	298345	SUSP BASE CI 57W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE			
	288346	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN			
	298346	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK			
	298347	SUSP BASE CI 57W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE			
	288348	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN			
	298348	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK			
	298349	SUSP BASE CI 57W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE			
		288360	SUSP BASE CI 14W SPOT (250mA)	ANODIC BROWN		
		298360	SUSP BASE CI 14W SPOT (250mA)	TEXT. BLACK		
		298361	SUSP BASE CI 14W SPOT (250mA)	TEXT. WHITE		
		288362	SUSP BASE CI 12W SPOT (350mA)	ANODIC BROWN		
		298362	SUSP BASE CI 12W SPOT (350mA)	TEXT. BLACK		
		298363	SUSP BASE CI 12W SPOT (350mA)	TEXT. WHITE		
288364		SUSP BASE CI 28W SPOT (250mA)	ANODIC BROWN			
298364		SUSP BASE CI 28W SPOT (250mA)	TEXT. BLACK			
298365		SUSP BASE CI 28W SPOT (250mA)	TEXT. WHITE			
288366		SUSP BASE CI 24W SPOT (350mA)	ANODIC BROWN			
	298366	SUSP BASE CI 24W SPOT (350mA)	TEXT. BLACK			
	298367	SUSP BASE CI 24W SPOT (350mA)	TEXT. WHITE			
	288368	SUSP BASE CI 24W SPOT (700mA)	ANODIC BROWN			
	298368	SUSP BASE CI 24W SPOT (700mA)	TEXT. BLACK			
	298369	SUSP BASE CI 24W SPOT (700mA)	TEXT. WHITE			
		288370	SUSP BASE CI 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN		
		298370	SUSP BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK		
		298371	SUSP BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE		
		288372	SUSP BASE CI 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN		
		298372	SUSP BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK		
298373		SUSP BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE			
288374		SUSP BASE CI 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN			
298374		SUSP BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK			
298375		SUSP BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. WHITE			
288376		SUSP BASE CI 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN			
	298376	SUSP BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. BLACK			
	298377	SUSP BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE			
	288378	SUSP BASE CI 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN			
	298378	SUSP BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK			
	298379	SUSP BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE			

SUSPENSION WC

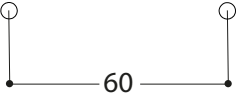
M10 BASE RECESSED LARGE

Without ceiling box:

OR

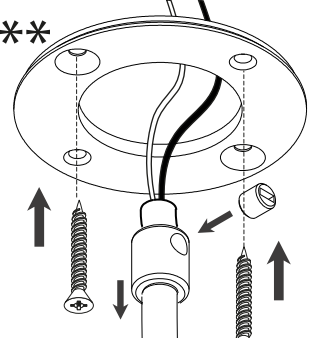
With ceiling box:

1 Drillpattern ceiling



2 Mount base on ceiling
(use 2 big chamfered holes**)

RED = POSITIVE BLACK = NEGATIVE



SEE NEXT PAGE FOR
POWER SUPPLY
24V, 250mA or 350mA

Base

Loosen/tighten
cable clamp before/after cable
length adjustment.

2pole connection:



▲ don't use white wire

4pole connection:

circuit A:

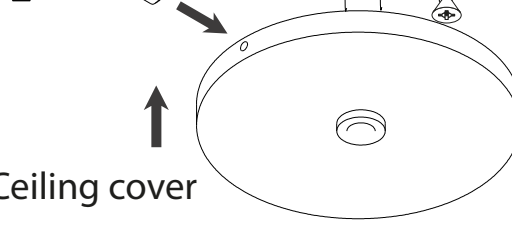


circuit B:



▲ don't use white wire

Ceiling cover



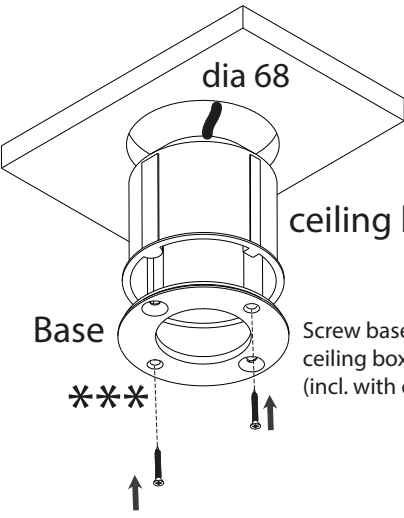
1,5 (x2)

3 Adjust cable length &
make electrical connection
above ceiling

4 Fix ceiling cover to base

1 Make hole dia 68

2 Mount base on ceiling box
(use 2 small chamfered holes***)



dia 68

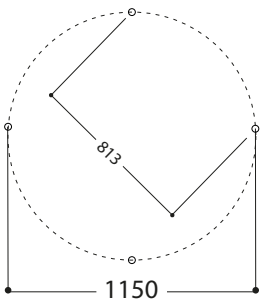
ceiling box

Base

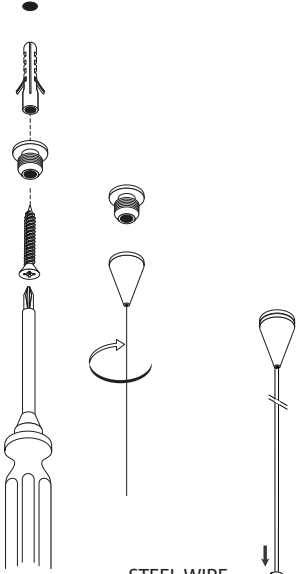
Screw base on
ceiling box with 2 screws
(incl. with ceiling box)

RINGO SUSPENSION CEILING

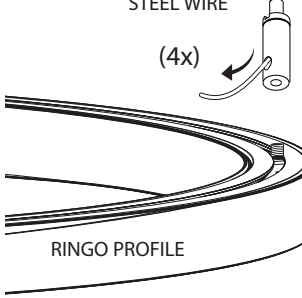
a. Drill p attern for suspension
set ceiling model:
RINGO 1185:



b. Fix suspension set



c. PREPARE SUSPENSION WIRES (4x @90°)



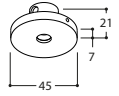
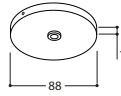
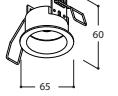
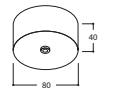
d. SCREW CHROME ROPEHOLDERS
TO BRASS INSERTS (4x M5)
ON TOP OF RINGO PROFILE



STEEL WIRE
(4x)

RINGO PROFILE

COMPATIBLE BASES

BASE ACCESSORY				optional ②
B	C	D	E	
M10 BASE RECESSED SMALL WC 408847 TEXT. WHITE 408826 TEXT. BLACK 408845 ANODIC BROWN	M10 BASE RECESSED LARGE WC 408947 TEXT. WHITE 408926 TEXT. BLACK 408945 ANODIC BROWN	M10 BASE KOSMOS WC 408647 TEXT. WHITE 408626 TEXT. BLACK 408625 ANODIC BROWN	M10 BASE SURFACE MOUNTED WC 408547 TEXT. WHITE 408546 TEXT. BLACK 408545 ANODIC BROWN	
				
B With M10 base 'recessed small' for electrical connection above ceiling				see seperate manual
- drill 1x hole Ø20mm - installation depth: 50mm				
C With M10 base 'recessed large' for electrical connection above ceiling				see above
- drill 1x hole Ø42mm - installation depth: 50mm				
D With M10 base 'kosmos' for hollow ceiling for electrical connection above ceiling				see seperate manual
- drill 1x hole Ø55mm - installation depth: 60mm				
E With M10 base 'surface mounted' for electrical connection on (solid) ceiling				see seperate manual

! Always disconnect the mains of the converter before plugging or unplugging the LEDs !

SUSPENSION WC

RINGO 1185 POWER CONSUMPTION /180°

	TYPE A - 180° LEDLINE Ledline power consumption 1/2 circle: - 2700K / 3000K / 4000K = 37,2W - 24V
	TYPE B - 90° LEDLINE + 90° 3x M10 3xM10 power consumption (2 pole): - 250mA = 12,75W - 51Vf - 350mA = 11,46W - 32,85Vf Ledline power consumption 1/4 circle: - 2700K / 3000K / 4000K = 18,6W - 24V
	TYPE C - 180° 6x M10 6xM10 power consumption (2 pole - 1 converter): - 250mA = 25,5W - 102Vf - 350mA = 22,92W - 65,7Vf OR 6xM10 power consumption (4 pole - 2 converters): - 250mA = 12,75W - 51Vf (per 3x M10 serial string) - 350mA = 11,46W - 32,85Vf (per 3x M10 serial string)
	TYPE D - 180° EMPTY No power consumption
	TYPE E - 90° EMPTY + 90° 3x M10 3xM10 power consumption (2 pole): - 250mA = 12,75W - 51Vf - 350mA = 11,46W - 32,85Vf 90° empty = NO POWER CONSUMPTION
	TYPE F - 90° LEDLINE + 90° EMPTY 90° empty = NO POWER CONSUMPTION Ledline power consumption 1/4 circle: - 2700K / 3000K / 4000K = 18,6W - 24V



LEDLINE 24V:
CALCULATE LEDCONVERTER WITH POWER
CONSUMPTION ADDING 10% EXTRA POWER
DEPENDING ON CONVERTER EFFICACY

RINGO SUSPENSION SET CEILING

	REFERENCE	297921	TEXT. WHITE	2P (ledline)
		297922	TEXT. BLACK	2P (ledline)
		297925	ANODIC BROWN	2P (ledline)
		297931	TEXT. WHITE	4P (ledline + spot)
		297932	TEXT. BLACK	4P (ledline + spot)
		297935	ANODIC BROWN	4P (ledline + spot)
SPECIFICATIONS		Voltage / Current		
		24V / 250 - 700mA DC		
		Gear		
		converter not incorporated		
		Class / IP		
		IP20		
		Application		
		interior - suspended		
		Weight		
		0,5 kg		

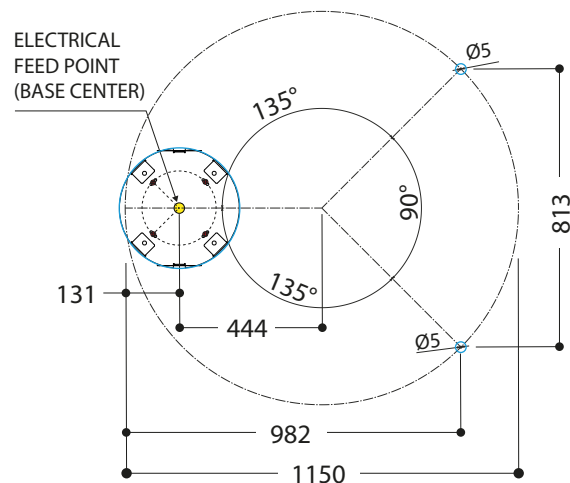
SURFACE MOUNTED CI



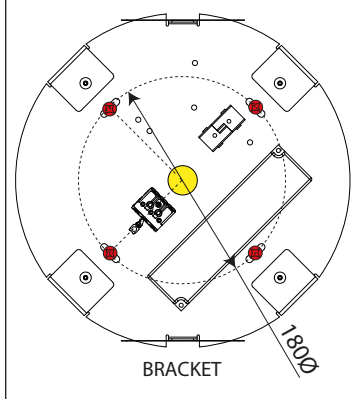
RECOMMENDED
NUMBER OF INSTALLERS:



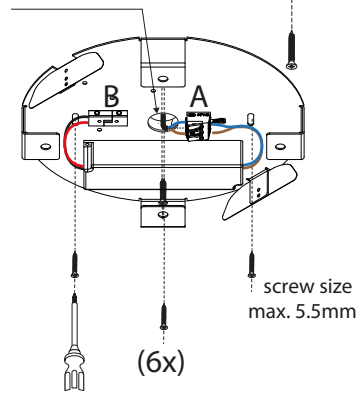
- ① .MOUNT BRACKETS TO CEILING VIA DRILL PATTERN, KEEP ELECTRICAL FEED POINT IN MIND
.MAKE PRIMARY ELECTRICAL CONNECTION IN CONNECTOR A (3p or 5p for 1-10V dimm)
(see wiring schemes on next page & LEAVE UNSWITCHED)



DRILL PATTERN BASE



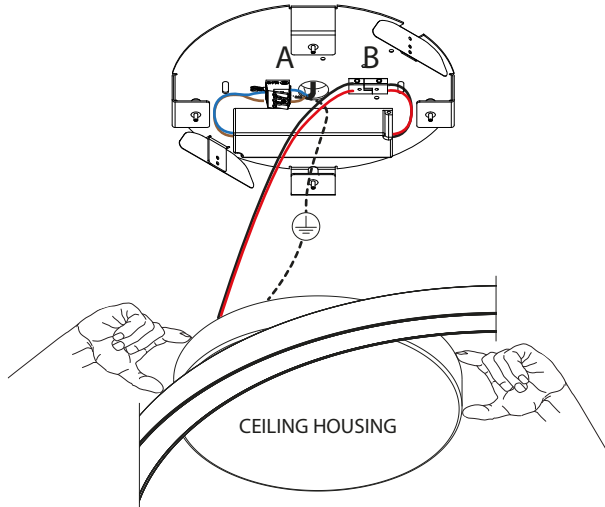
ELECTRICAL
FEED POINT
(BASE CENTER)



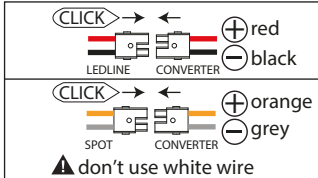
screw size
max. 5.5mm

(6x)

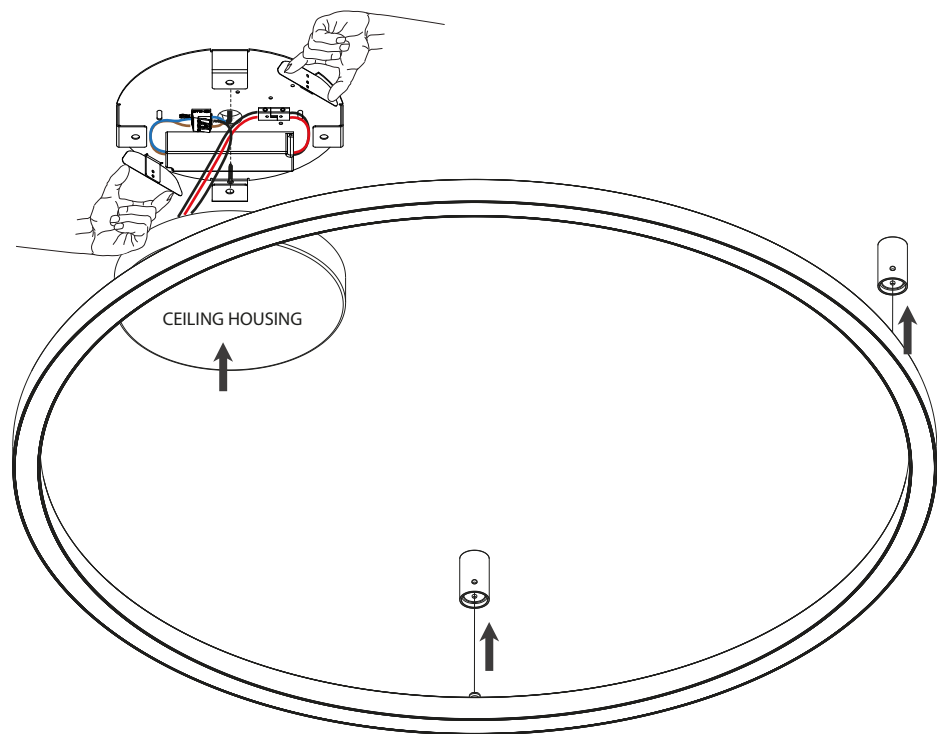
- ② .MAKE SECONDARY ELECTRICAL CONNECTION(S) IN CONNECTOR(S) B
.MAKE EARTHING CONNECTION FROM HOUSING IN CONNECTOR A
(see wiring schemes on next page)



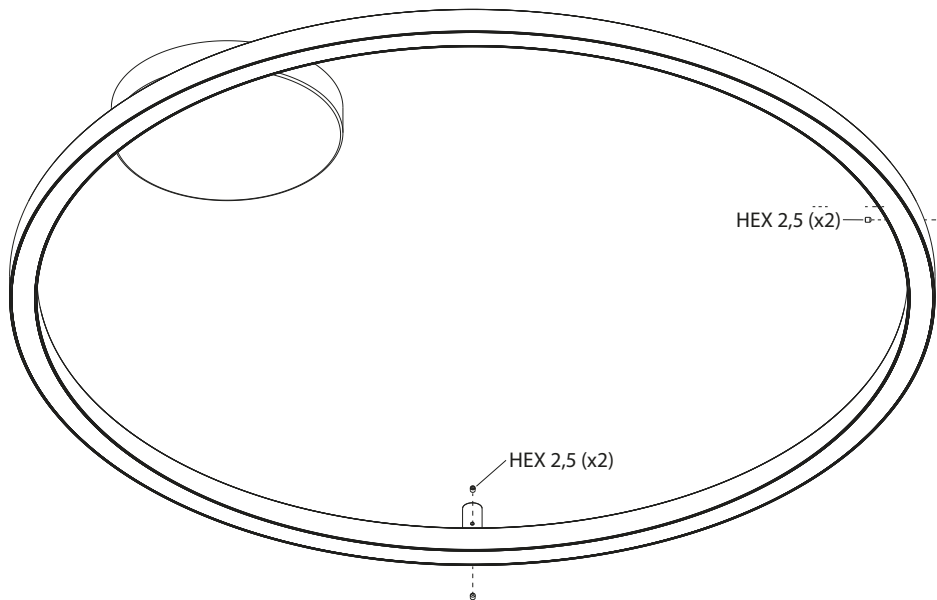
connector(s) B: (2p or 4p)



- ③ PUSH CEILING HOUSING GENTLY ONTO THE CEILING BRACKET UNTIL IT SNAPS
OVER THE 2 LEAF SPRINGS, APPLY LITTLE TWIST UNTIL CEILING HOUSING IS
FITTED PROPERLY AGAINST CEILING. PLEASE GUIDE THE SECONDARY WIRES
SO THEY DO NOT CLAMP BETWEEN THE HOUSING AND THE LEAF SPRINGS.



- ④ FIX THE CEILING BRACKETS AND SWITCH ON MAINS POWER SUPPLY

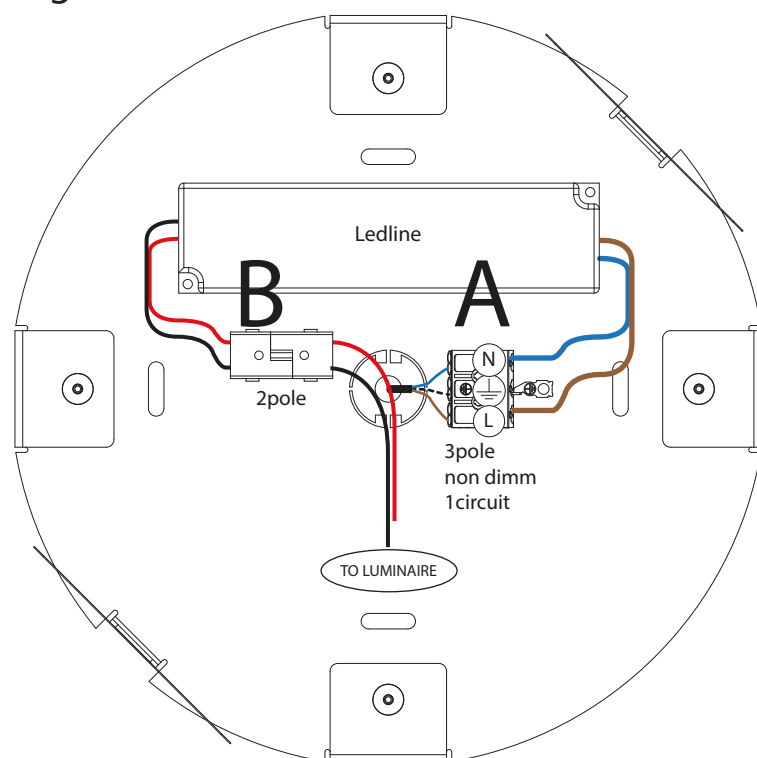


SEE NEXT PAGE FOR BASE WIRING SCHEMES

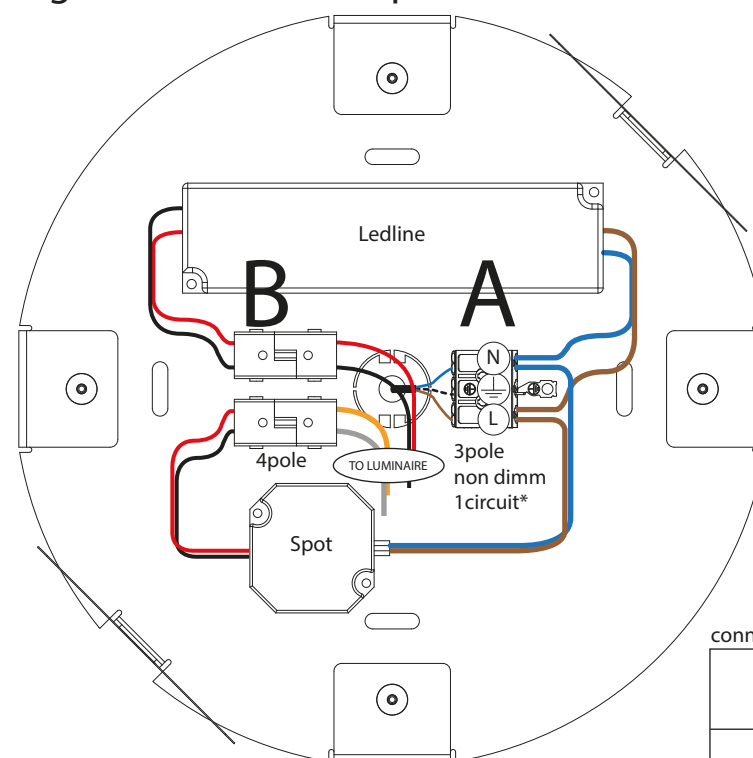
SURFACE MOUNTED CI

6 POSSIBLE WIRING SCHEMES FOR RINGO 1185 BASES:

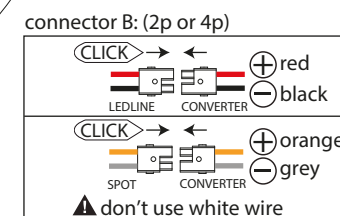
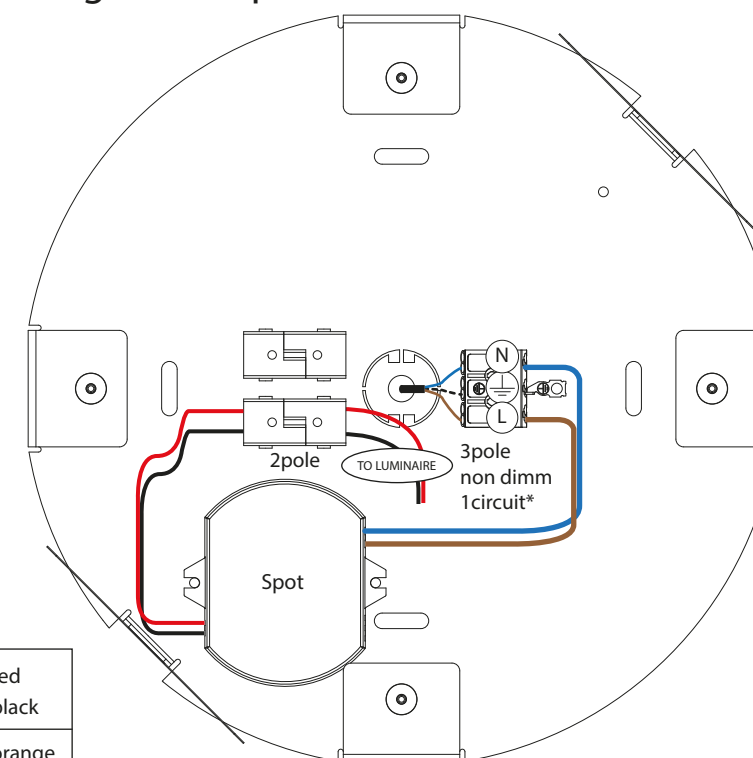
28880X / 29880X
Ringo Base Ledline



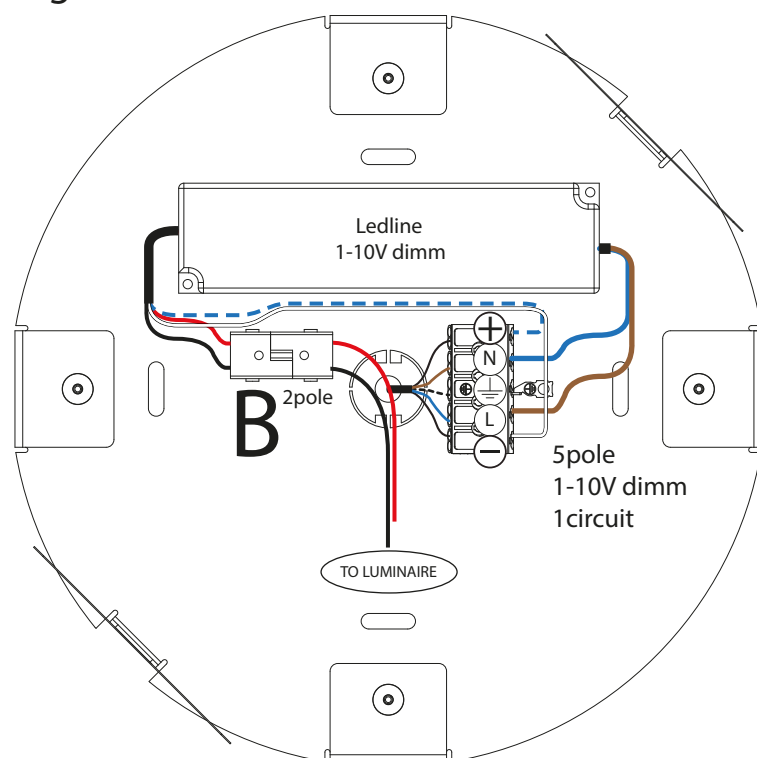
28881X / 29881X / 28882X / 29882X
Ringo Base Ledline + Spot



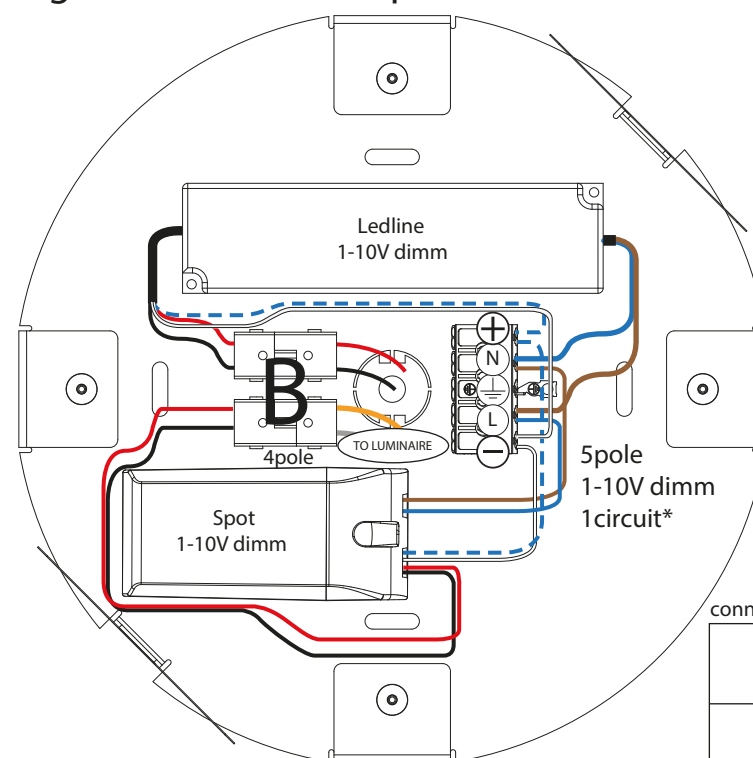
28886X / 29886X
Ringo Base Spot



28883X / 29883X
Ringo Base Ledline 1-10V DIMM

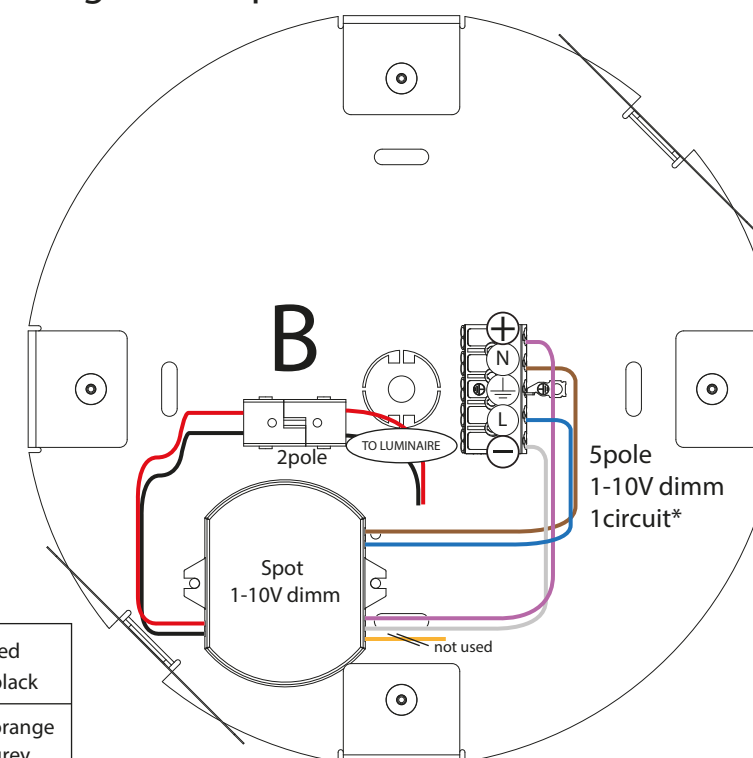


28884X / 29884X / 28885X / 29885X
Ringo Base Ledline + Spot 1-10V DIMM

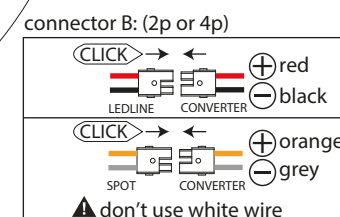


⚠ *extra primary circuit is possible on request

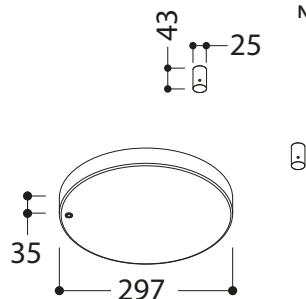
28887X / 29887X
Ringo Base Spot 1-10V DIMM



⚠ *extra primary circuit is possible on request



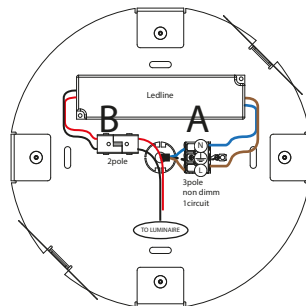
SURFACE MOUNTED CI



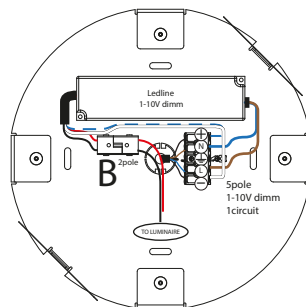
NAME _____

RINGO 1185 SURFACE CI BASE
ARTICLE RANGE

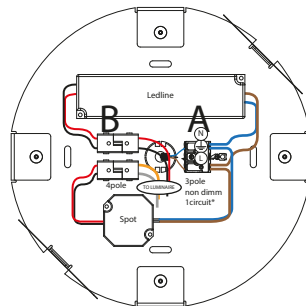
288800	SURFACE MOUNTED BASE CI 38W LEDLINE	ANODIC BROWN
298800	SURFACE MOUNTED BASE CI 38W LEDLINE	TEXT. BLACK
298801	SURFACE MOUNTED BASE CI 38W LEDLINE	TEXT. WHITE
288803	SURFACE MOUNTED BASE CI 57W LEDLINE	ANODIC BROWN
298803	SURFACE MOUNTED BASE CI 57W LEDLINE	TEXT. BLACK
298804	SURFACE MOUNTED BASE CI 57W LEDLINE	TEXT. WHITE
288806	SURFACE MOUNTED BASE CI 76W LEDLINE	ANODIC BROWN
298806	SURFACE MOUNTED BASE CI 76W LEDLINE	TEXT. BLACK
298807	SURFACE MOUNTED BASE CI 76W LEDLINE	TEXT. WHITE



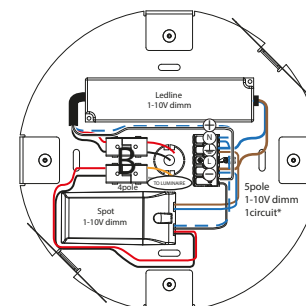
288830	SURFACE MOUNTED BASE CI 38W LEDLINE 1-10V DIMM	ANODIC BROWN
298830	SURFACE MOUNTED BASE CI 38W LEDLINE 1-10V DIMM	TEXT. BLACK
298831	SURFACE MOUNTED BASE CI 38W LEDLINE 1-10V DIMM	TEXT. WHITE
288833	SURFACE MOUNTED BASE CI 57W LEDLINE 1-10V DIMM	ANODIC BROWN
298833	SURFACE MOUNTED BASE CI 57W LEDLINE 1-10V DIMM	TEXT. BLACK
298834	SURFACE MOUNTED BASE CI 57W LEDLINE 1-10V DIMM	TEXT. WHITE
288836	SURFACE MOUNTED BASE CI 76W LEDLINE 1-10V DIMM	ANODIC BROWN
298836	SURFACE MOUNTED BASE CI 76W LEDLINE 1-10V DIMM	TEXT. BLACK
298837	SURFACE MOUNTED BASE CI 76W LEDLINE 1-10V DIMM	TEXT. WHITE



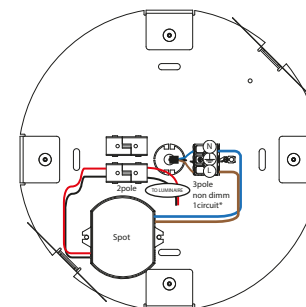
288820	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN
298820	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK
298821	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE
288822	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN
298822	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK
298823	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE
288824	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250mA)	ANODIC BROWN
298824	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250mA)	TEXT. BLACK
298825	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250mA)	TEXT. WHITE
288826	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350mA)	ANODIC BROWN
298826	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350mA)	TEXT. BLACK
298827	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350mA)	TEXT. WHITE
288828	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN
298828	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK
298829	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE
288834	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN
298834	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK
298835	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE
288836	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN
298836	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK
298837	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE
288838	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN
298838	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK
298839	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE



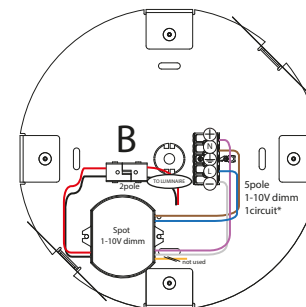
288850	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	ANODIC BROWN
298850	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	TEXT. BLACK
298851	SURFACE MOUNTED BASE CI 38W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	TEXT. WHITE
288852	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	ANODIC BROWN
298852	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	TEXT. BLACK
298853	SURFACE MOUNTED BASE CI 38W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	TEXT. WHITE
288854	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250ma) 1-10V DIMM	ANODIC BROWN
298854	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250ma) 1-10V DIMM	TEXT. BLACK
298855	SURFACE MOUNTED BASE CI 38W LEDLINE + 28W SPOT (250ma) 1-10V DIMM	TEXT. WHITE
288856	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350ma) 1-10V DIMM	ANODIC BROWN
298856	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350ma) 1-10V DIMM	TEXT. BLACK
298857	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (350ma) 1-10V DIMM	TEXT. WHITE
288858	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	ANODIC BROWN
298858	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	TEXT. BLACK
298859	SURFACE MOUNTED BASE CI 38W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	TEXT. WHITE
288844	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	ANODIC BROWN
298844	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	TEXT. BLACK
298845	SURFACE MOUNTED BASE CI 57W LEDLINE + 14W SPOT (250ma) 1-10V DIMM	TEXT. WHITE
288846	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	ANODIC BROWN
298846	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	TEXT. BLACK
298847	SURFACE MOUNTED BASE CI 57W LEDLINE + 12W SPOT (350ma) 1-10V DIMM	TEXT. WHITE
288848	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	ANODIC BROWN
298848	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	TEXT. BLACK
298849	SURFACE MOUNTED BASE CI 57W LEDLINE + 24W SPOT (700ma) 1-10V DIMM	TEXT. WHITE



288860	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	ANODIC BROWN
298860	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	TEXT. BLACK
298861	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	TEXT. WHITE
288862	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	ANODIC BROWN
298862	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	TEXT. BLACK
298863	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	TEXT. WHITE
288864	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	ANODIC BROWN
298864	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	TEXT. BLACK
298865	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	TEXT. WHITE
288866	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	ANODIC BROWN
298866	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	TEXT. BLACK
298867	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	TEXT. WHITE
288868	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	ANODIC BROWN
298868	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	TEXT. BLACK
298869	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	TEXT. WHITE



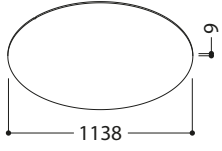
288870	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN
298870	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
298871	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
288872	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN
298872	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
298873	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
288874	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN
298874	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
298875	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
288876	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN
298876	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
298877	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
288878	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN
298878	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK
298879	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE



! LEDLINE 24V:
CALCULATE LEDCONVERTER WITH POWER
CONSUMPTION ADDING 10% EXTRA POWER
DEPENDING ON CONVERTER EFFICACY

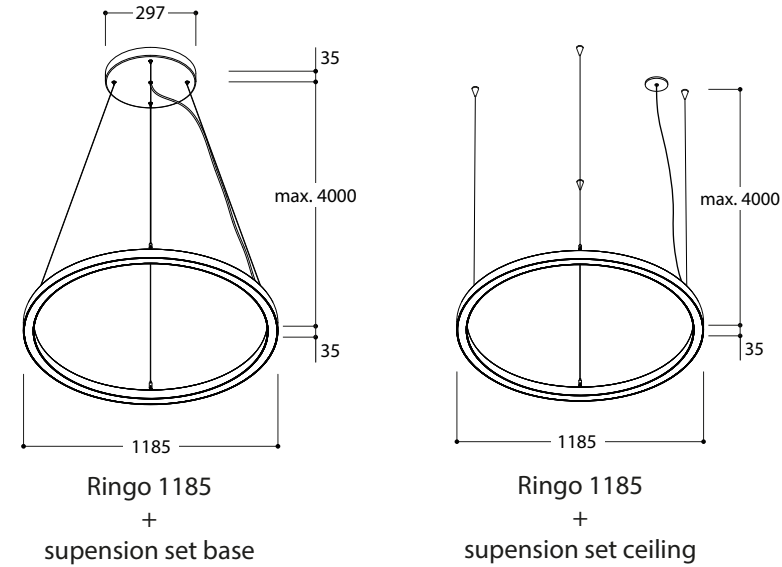
FELT ACCESSORY

RINGO 1185 FELT COVER

	298706	RINGO 1185 FELT COVER ANTHRACITE	 2 kg
	298707	RINGO 1185 FELT COVER MARBLE	
SPECIFICATIONS		Application	 interior - suspended 

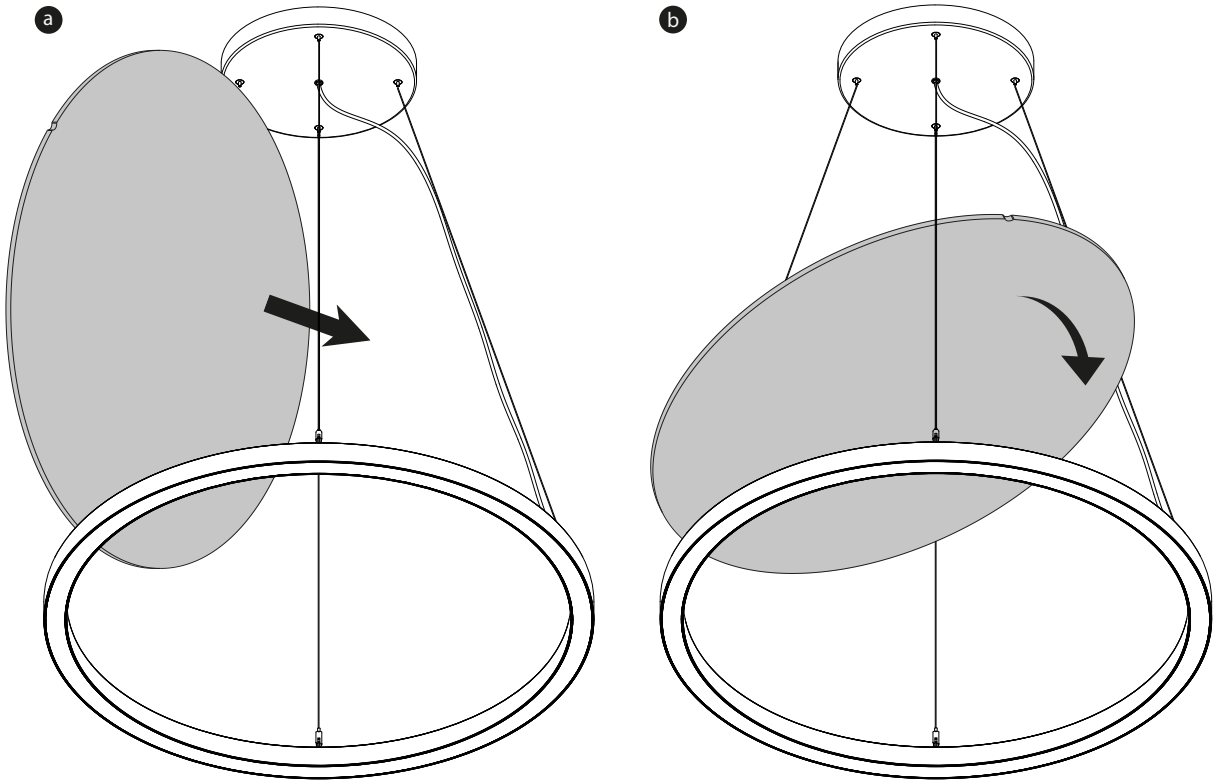
! RINGO 1185 FELT COVER CAN ONLY BE USED IN COMBINATION WITH RINGO SUSPENSION MODELS. THE RINGO 1185 FELT COVER IS NOT COMPATIBLE WITH RINGO 1185 SURFACE MOUNTED MODELS

Compatible Ringo 1185 devices:

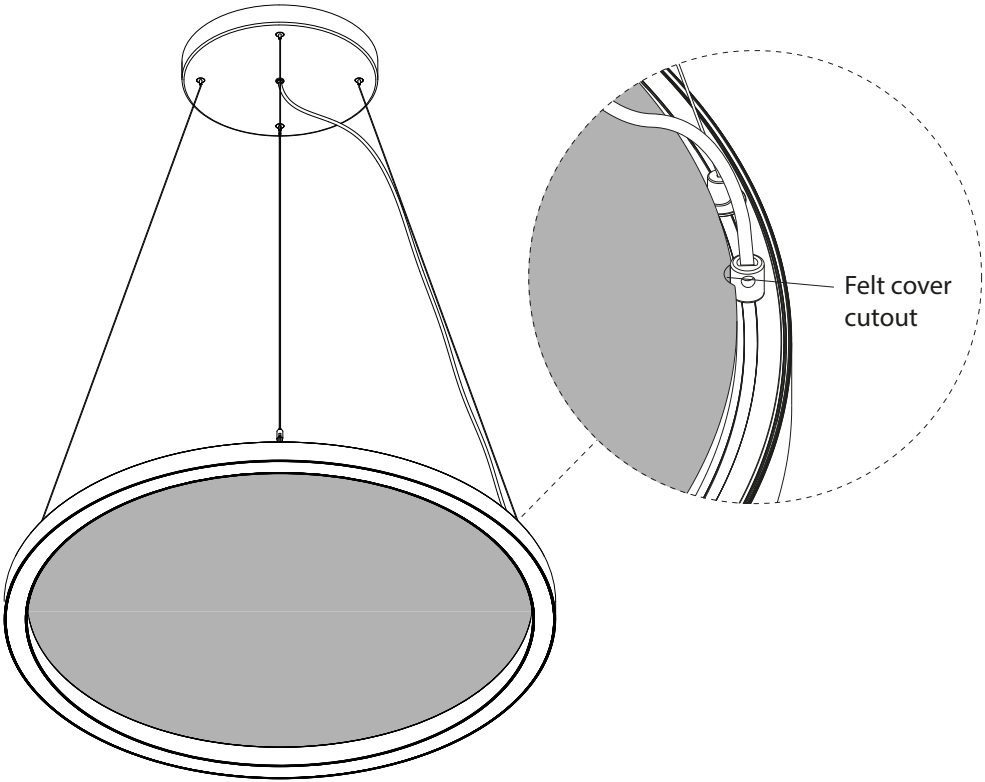


IN CASE OF SUSPENSION SET BASE:

1 Insert the felt panel between the steel suspension wires

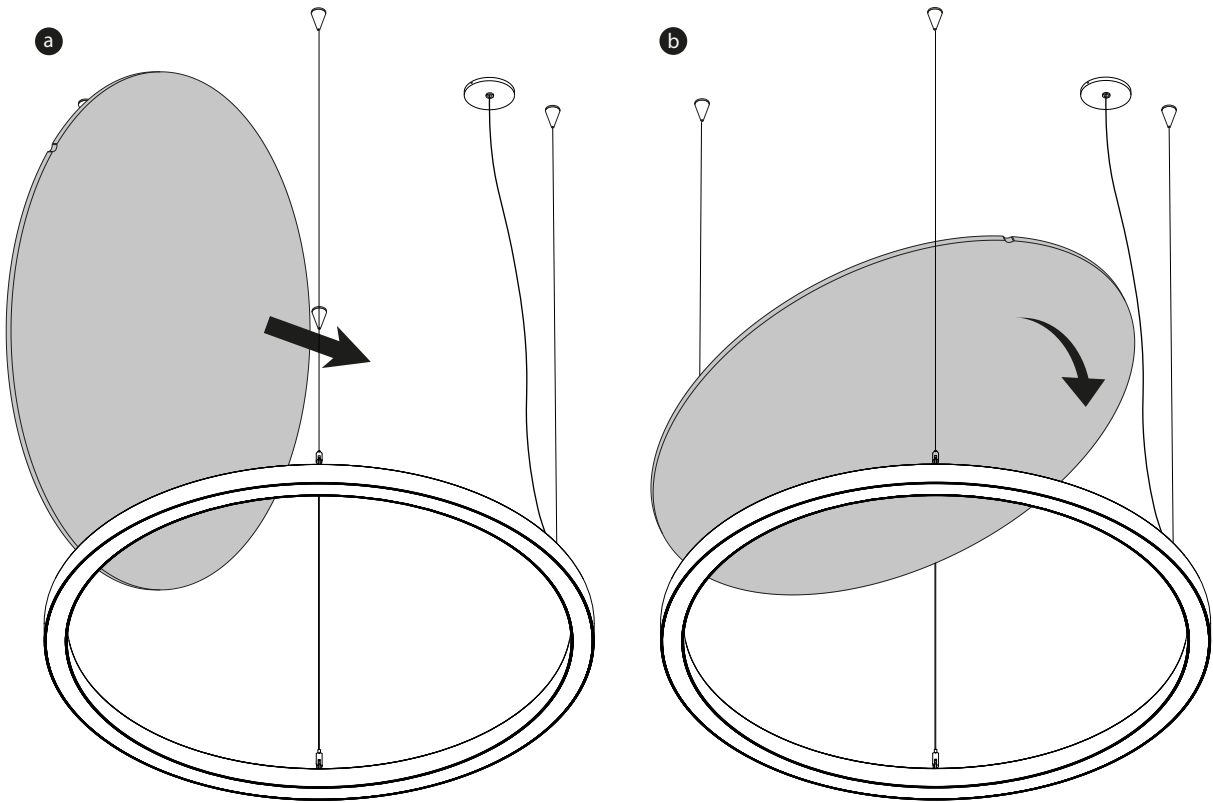


2 Orient the felt cover and let it rest on the Ringo housing.
Make sure the felt cover cutout is oriented alongside the strain relief

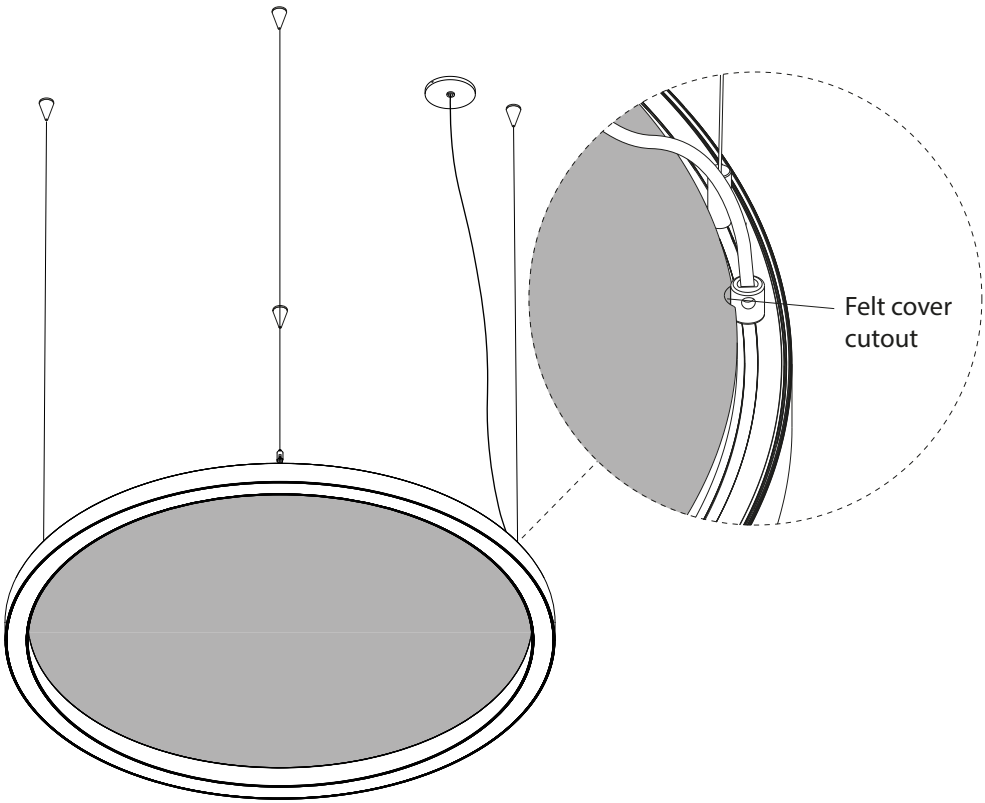


IN CASE OF SUSPENSION SET CEILING:

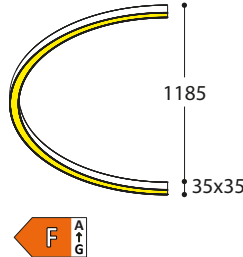
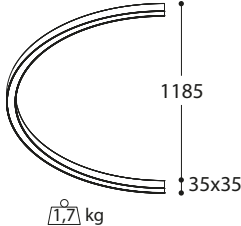
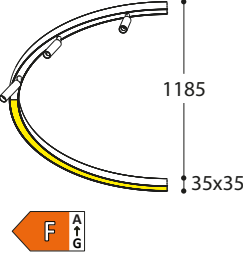
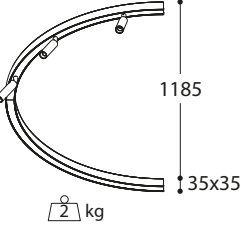
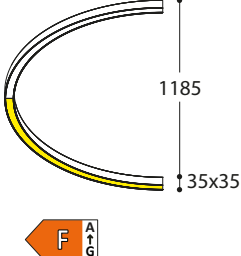
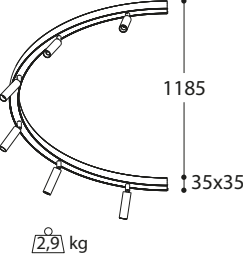
1 Insert the felt panel between the steel suspension wires



2 Orient the felt cover and let it rest on the Ringo housing.
Make sure the felt cover cutout is oriented alongside the strain relief



ARTICLE RANGE

RINGO 1185 TYPE A - F ARTICLE RANGE							
298025 298026 298027 298035 298036 298037 298045 298046 298047	180° LEDLINE 2700K - ANODIC BROWN 180° LEDLINE 2700K - TEXT. BLACK 180° LEDLINE 2700K - TEXT. WHITE 180° LEDLINE 3000K - ANODIC BROWN 180° LEDLINE 3000K - TEXT. BLACK 180° LEDLINE 3000K - TEXT. WHITE 180° LEDLINE 4000K - ANODIC BROWN 180° LEDLINE 4000K - TEXT. BLACK 180° LEDLINE 4000K - TEXT. WHITE	TYPE A TYPE A TYPE A TYPE A TYPE A TYPE A TYPE A TYPE A TYPE A	 1,9 kg	298425 298426 298427	180° EMPTY - ANODIC BROWN 180° EMPTY - TEXT. BLACK 180° EMPTY - TEXT. WHITE	TYPE D TYPE D TYPE D	 1,7 kg
298125 298126 298127 298135 298136 298137 298145 298146 298147	90° LEDLINE 2700K + 90° 3xM10 - ANODIC BROWN 90° LEDLINE 2700K + 90° 3xM10 - TEXT. BLACK 90° LEDLINE 2700K + 90° 3xM10 - TEXT. WHITE 90° LEDLINE 3000K + 90° 3xM10 - ANODIC BROWN 90° LEDLINE 3000K + 90° 3xM10 - TEXT. BLACK 90° LEDLINE 3000K + 90° 3xM10 - TEXT. WHITE 90° LEDLINE 4000K + 90° 3xM10 - ANODIC BROWN 90° LEDLINE 4000K + 90° 3xM10 - TEXT. BLACK 90° LEDLINE 4000K + 90° 3xM10 - TEXT. WHITE	TYPE B TYPE B TYPE B TYPE B TYPE B TYPE B TYPE B TYPE B TYPE B	 2,5 kg	298525 298526 298527	90° EMPTY + 90° 3xM10 - ANODIC BROWN 90° EMPTY + 90° 3xM10 - TEXT. BLACK 90° EMPTY + 90° 3xM10 - TEXT. WHITE	TYPE E TYPE E TYPE E	 2 kg
298615 298616 298617 298635 298636 298637 298645 298646 298647	90° LEDLINE 2700K + 90° EMPTY - ANODIC BROWN 90° LEDLINE 2700K + 90° EMPTY - TEXT. BLACK 90° LEDLINE 2700K + 90° EMPTY - TEXT. WHITE 90° LEDLINE 3000K + 90° EMPTY - ANODIC BROWN 90° LEDLINE 3000K + 90° EMPTY - TEXT. BLACK 90° LEDLINE 3000K + 90° EMPTY - TEXT. WHITE 90° LEDLINE 4000K + 90° EMPTY - ANODIC BROWN 90° LEDLINE 4000K + 90° EMPTY - TEXT. BLACK 90° LEDLINE 4000K + 90° EMPTY - TEXT. WHITE	TYPE F TYPE F TYPE F TYPE F TYPE F TYPE F TYPE F TYPE F TYPE F	 2,2 kg	298225 298226 298227	180° 6xM10 - ANODIC BROWN 180° 6xM10 - TEXT. BLACK 180° 6xM10 - TEXT. WHITE	TYPE C TYPE C TYPE C	 2,9 kg

RINGO EXTRA CIRCUIT

REFERENCE	892630 892631 892632	EXTRA CIRCUIT /m COMMON NEUTRAL EXTRA CIRCUIT /m NO COMMON NEUTRAL EXTRA CIRCUIT /m FOR DIMMING SIGNAL
-----------	----------------------------	--