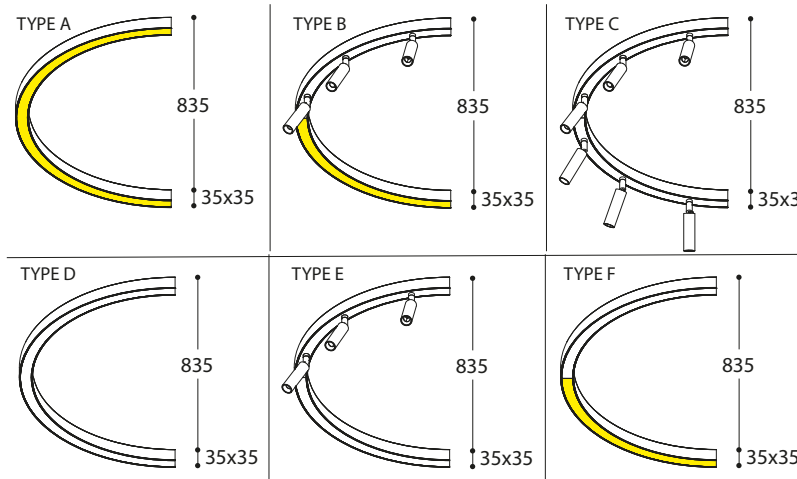


NAME	RINGO 835 SURFACE / SUSPENSION	
SPECIFICATIONS	Lamptype	ledline = curved led array, spot = Luxeon M or BR.LUX (LES 9)
	Symbol	
	CCT	2700K - 3000K - 4000K / spot (see manual)
	Luminous flux	ledline = 2600lm per 180° (A), per spot = see manual
	Power	ledline = 24W per 180° (A), per spot = see manual
	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)

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

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

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)

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

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

7 SWITCH ON MAINS POWER SUPPLY
(ORIENT SPOT LUMINAIRES)

PENDING RANGE:
MIN: 850mm
MAX: 4000mm

SEE NEXT PAGE FOR BASE WIRING SCHEMES

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.

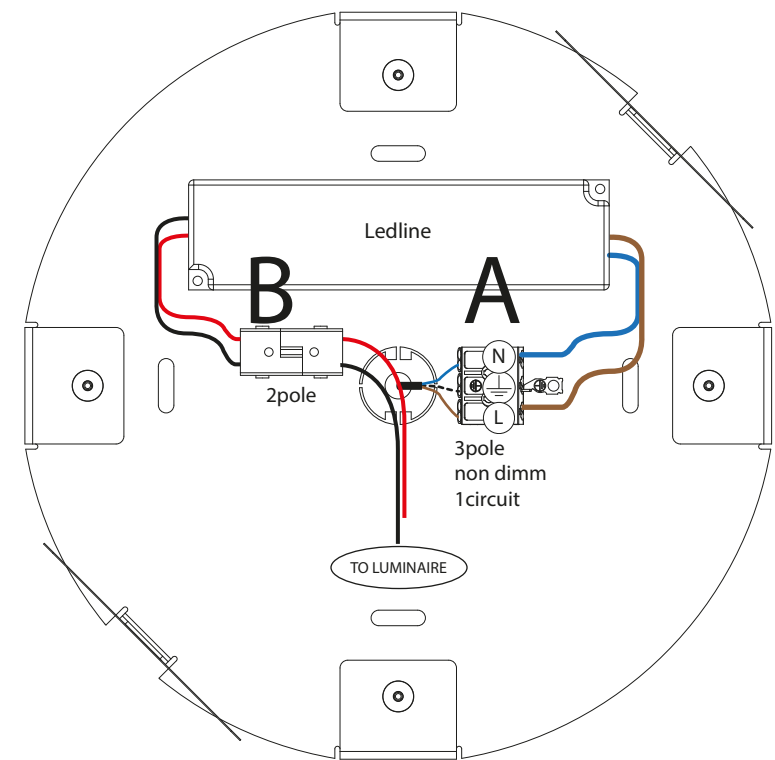
DE Installations- und Wartungsanweisungen bezüglich der Herstellergarantie.

- 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 kompatiblen 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.

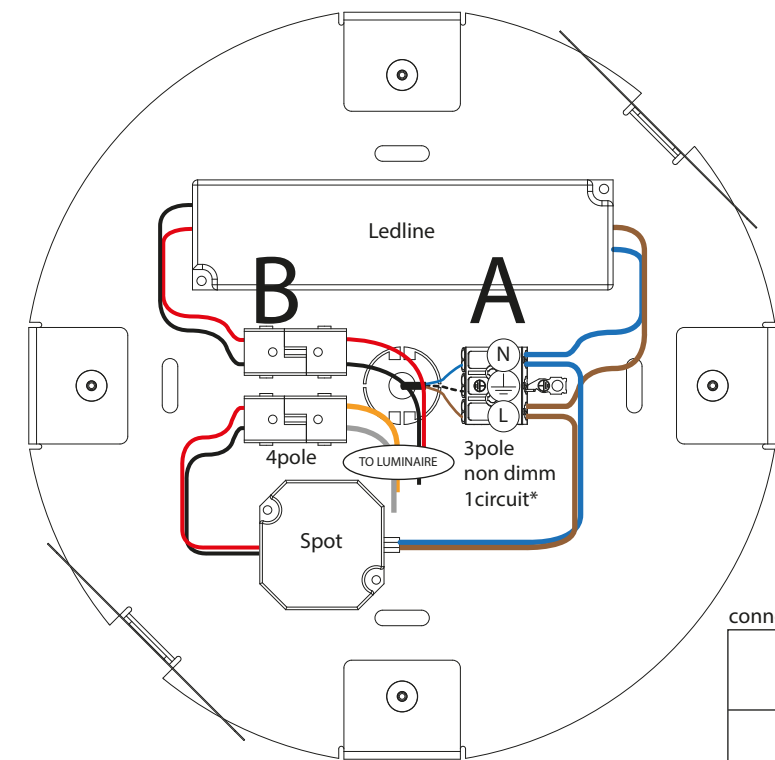
SUSPENSION CI

6 POSSIBLE WIRING SCHEMES FOR RINGO 835 BASES:

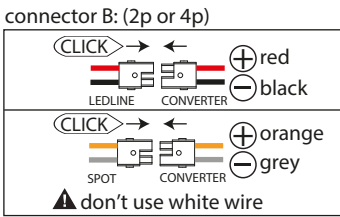
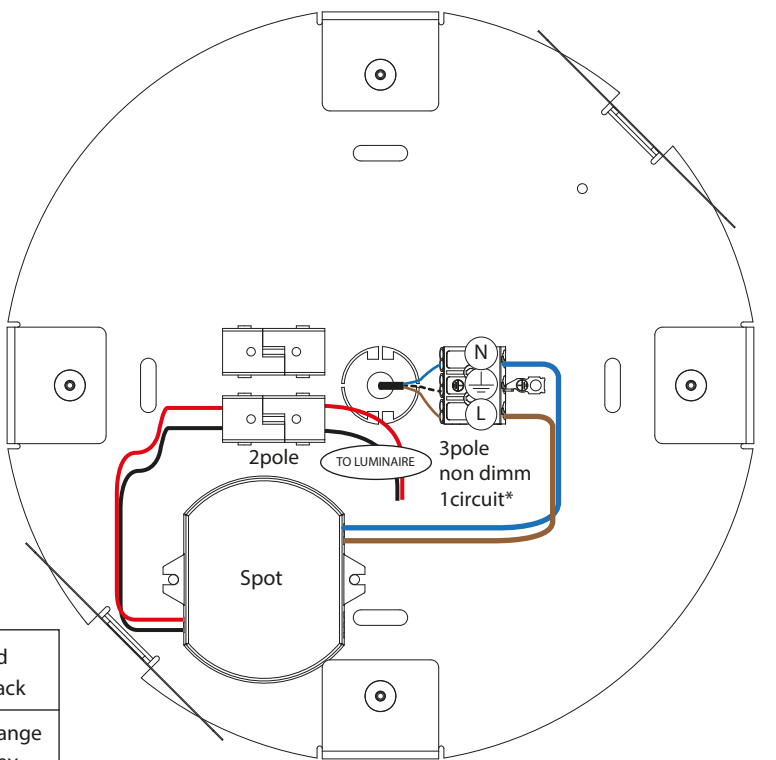
28730X / 29730X
Ringo Base Ledline



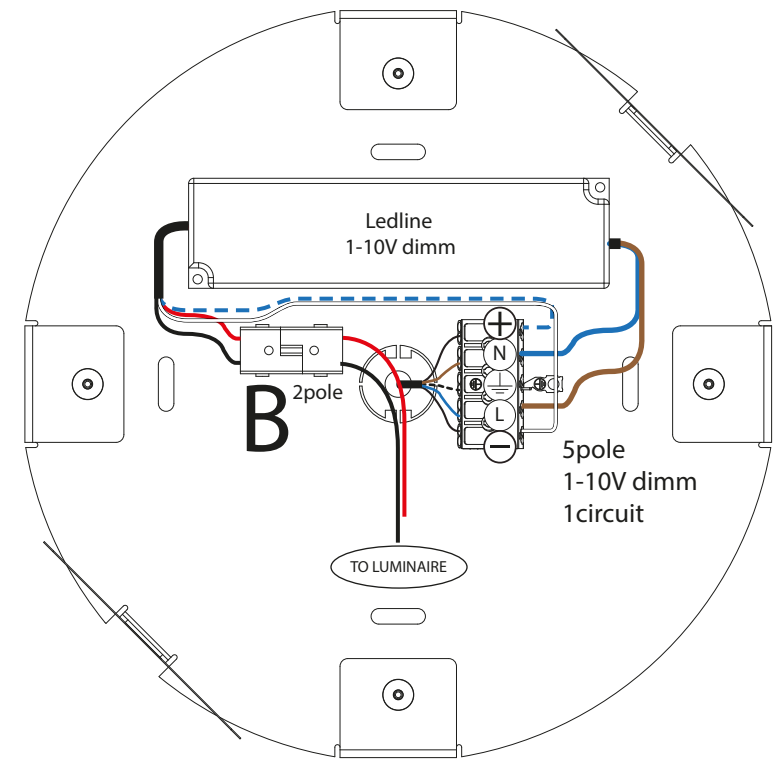
28731X / 29731X / 28732X / 29732X
Ringo Base Ledline + Spot



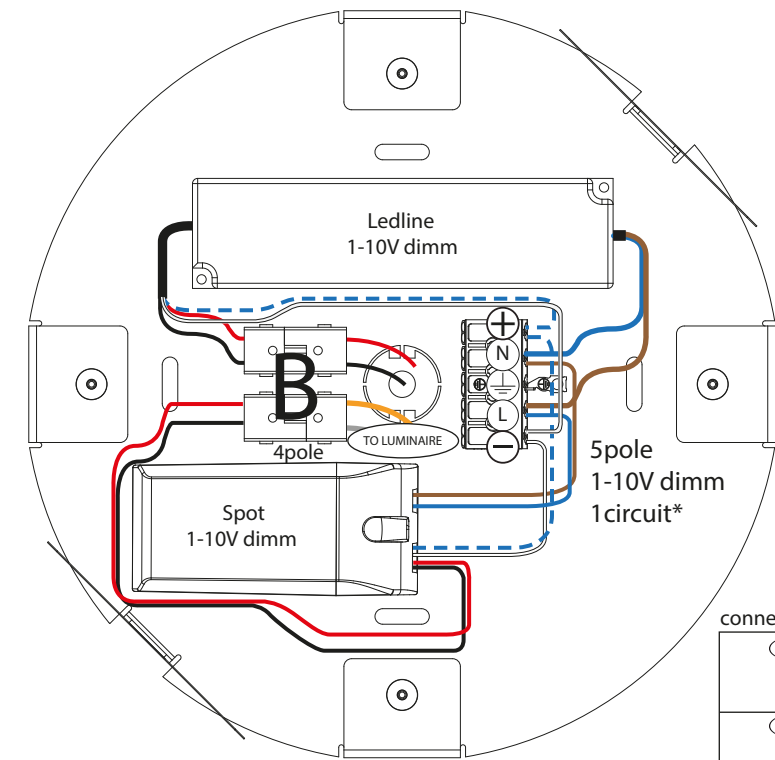
28736X / 29736X
Ringo Base Spot



28733X / 29733X
Ringo Base Ledline 1-10V DIMM

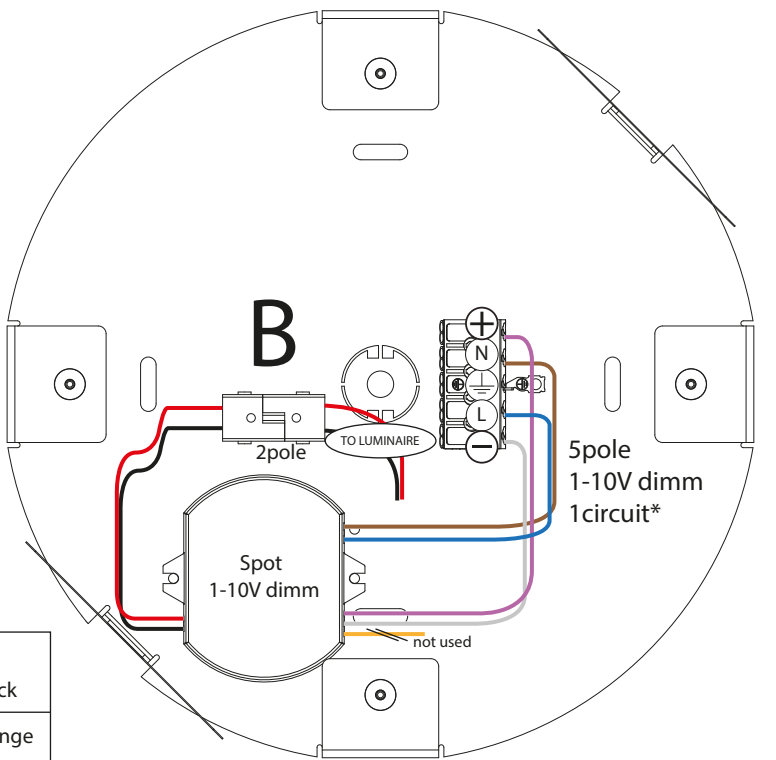


28734X / 29734X / 28735X / 29735X
Ringo Base Ledline + Spot 1-10V DIMM

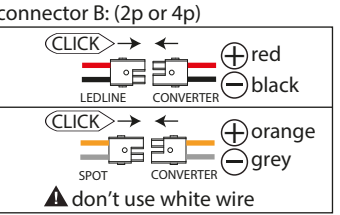


⚠ *extra primary circuit is possible on request

28737X / 29737X
Ringo Base Spot 1-10V DIMM



⚠ *extra primary circuit is possible on request



SUSPENSION CI

297 35	NAME		RINGO 835 SUSPENSION CI BASE ARTICLE RANGE																																																																									
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suspension set

2 or 4 pole

max. 4000

RINGO SUSPENSION SET BASE

ARTICLE RANGE

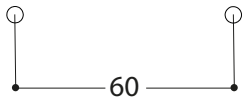
297905	SUSP SET BASE 2P (ledline)	ANODIC BROWN	
297902	SUSP SET BASE 2P (ledline)	BLACK	
297901	SUSP SET BASE 2P (ledline)	WHITE	
297915	SUSP SET BASE 4P (ledline+spot)	ANODIC BROWN	
297912	SUSP SET BASE 4P (ledline+spot)	BLACK	
297911	SUSP SET BASE 4P (ledline+spot)	WHITE	

SUSPENSION WC

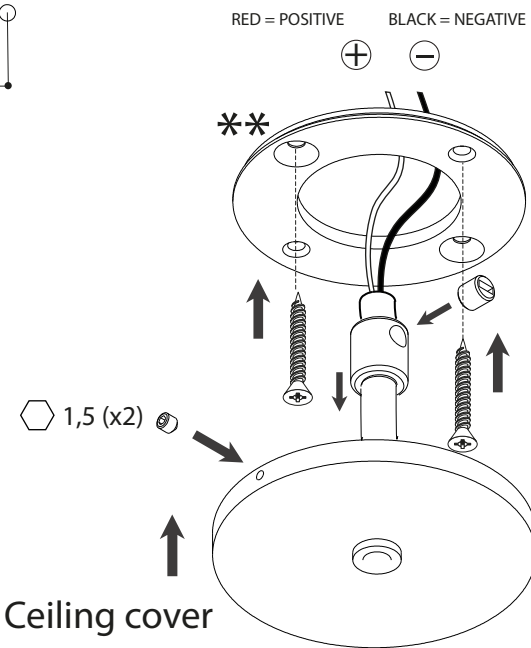
M10 BASE RECESSED LARGE

Without ceiling box:

① Drillpattern ceiling



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



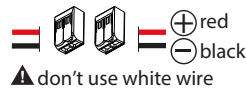
RED = POSITIVE BLACK = NEGATIVE

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

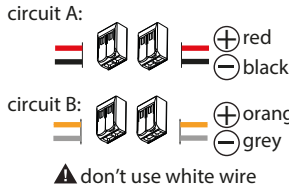
Base

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

2pole connection:



4pole connection:



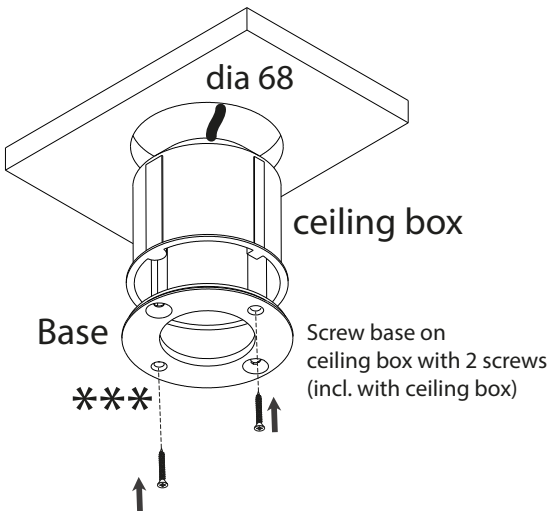
④ Fix ceiling cover to base

OR

With ceiling box:

① Make hole dia 68

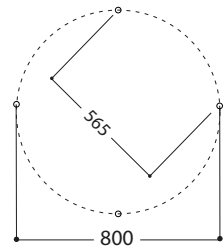
② Mount base on ceiling box
(use 2 small chamfered holes***)



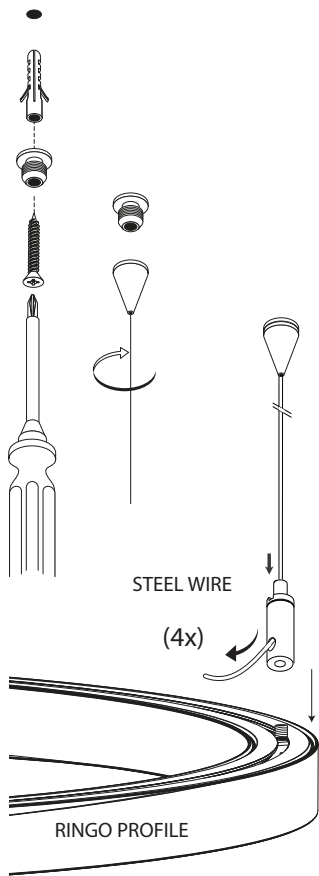
RINGO SUSPENSION CEILING

a. Drill p attern for suspension
set ceiling model:

RINGO 835:



b. Fix suspension set



c. PREPARE SUSPENSION WIRES (4x @90°)

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

COMPATIBLE BASES

BASE ACCESSORY

optional ②

B	C	D	E
M10 BASE RECESSED SMALL WC	M10 BASE RECESSED LARGE WC	M10 BASE KOSMOS WC	M10 BASE SURFACE MOUNTED WC
408847 TEXT. WHITE	408947 TEXT. WHITE	408647 TEXT. WHITE	408547 TEXT. WHITE
408826 TEXT. BLACK	408926 TEXT. BLACK	408626 TEXT. BLACK	408546 TEXT. BLACK
408845 ANODIC BROWN	408945 ANODIC BROWN	408625 ANODIC BROWN	408545 ANODIC BROWN

- B** With M10 base 'recessed small' for electrical connection above ceiling
- drill 1x hole Ø20mm
- installation depth: 50mm **see seperate manual**
- C** With M10 base 'recessed large' for electrical connection above ceiling
- drill 1x hole Ø42mm
- installation depth: 50mm **see above**
- D** With M10 base 'kosmos' for hollow ceiling for electrical connection above ceiling
- drill 1x hole Ø55mm
- installation depth: 60mm **see seperate manual**
- 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 835 POWER CONSUMPTION /180°

	TYPE A - 180° LEDLINE Ledline power consumption 1/2 circle: - 2700K / 3000K / 4000K = 22,4W - 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 = 11,2W - 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 = 11,2W - 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		

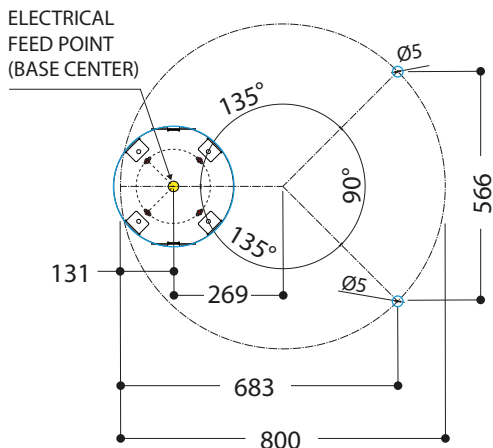
SURFACE MOUNTED CI



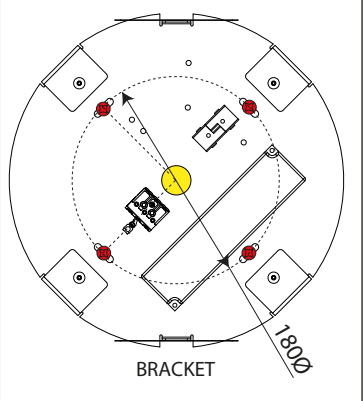
RECOMMENDED
NUMBER OF INSTALLERS:



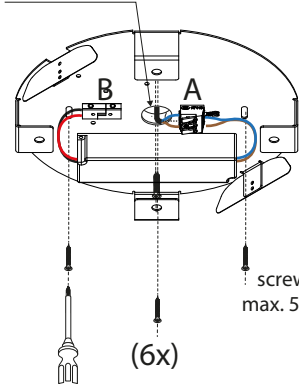
- 1 .MOUNT BRACKETS TO CEILING VIA DRILL PATTERN, KEEP ELECTRICAL FEED POINT IN MIND
.MAKE PRIMARY ELECTRICAL CONNECTION IN CONNECTOR A (3p or 5p for 1-10V dimm)
(see wiring schemes on next page & LEAVE UNSWITCHED)



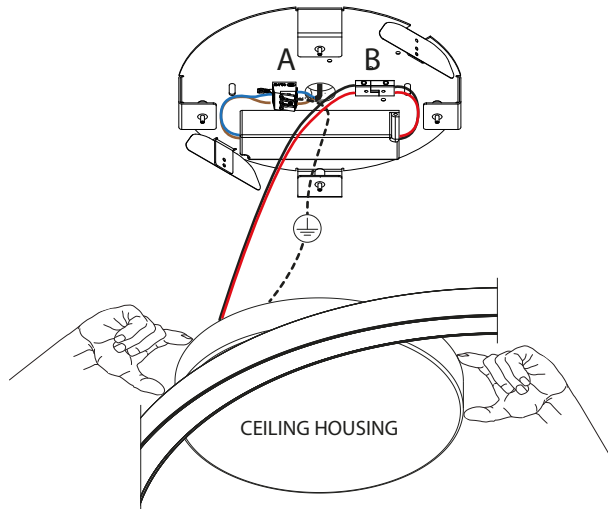
DRILL PATTERN BASE



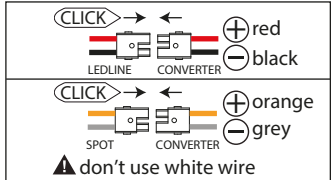
ELECTRICAL
FEED POINT
(BASE CENTER)



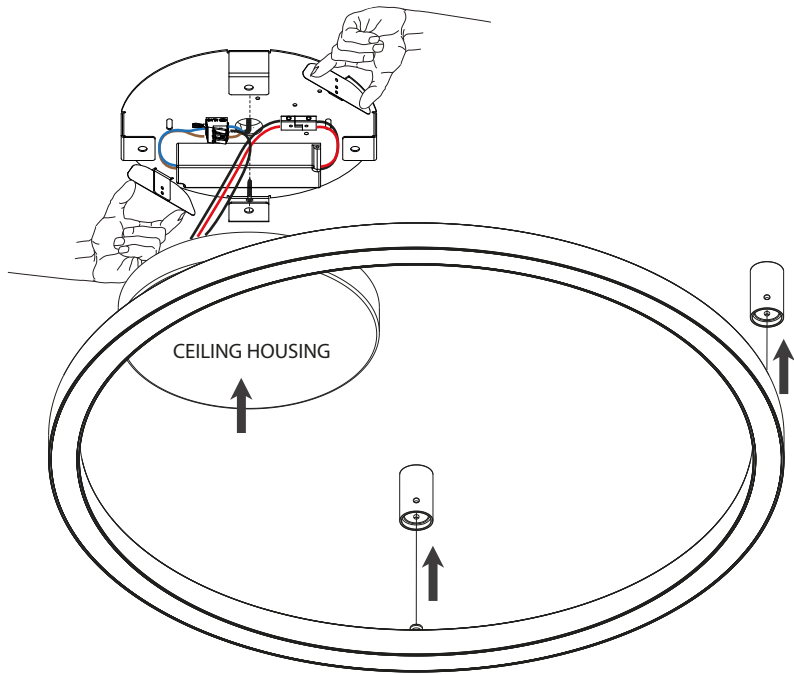
- 2 .MAKE SECONDARY ELECTRICAL CONNECTION(S) IN CONNECTOR(S) B
.MAKE EARTHING CONNECTION FROM HOUSING IN CONNECTOR A
(see wiring schemes on next page)



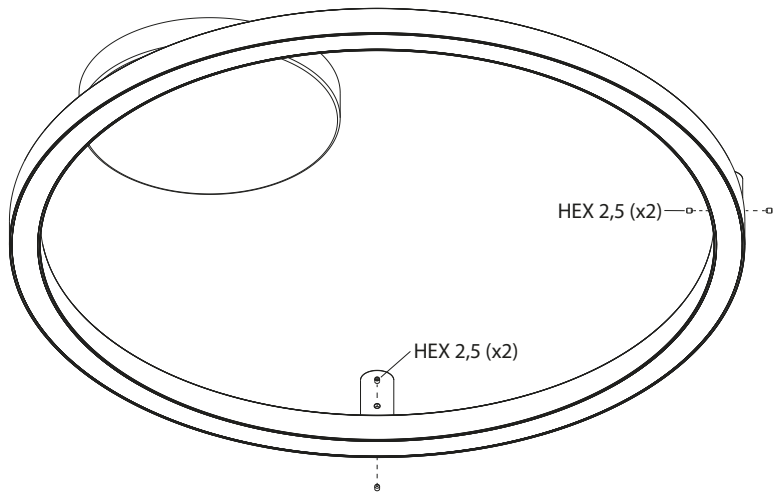
connector(s) B: (2p or 4p)



- 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

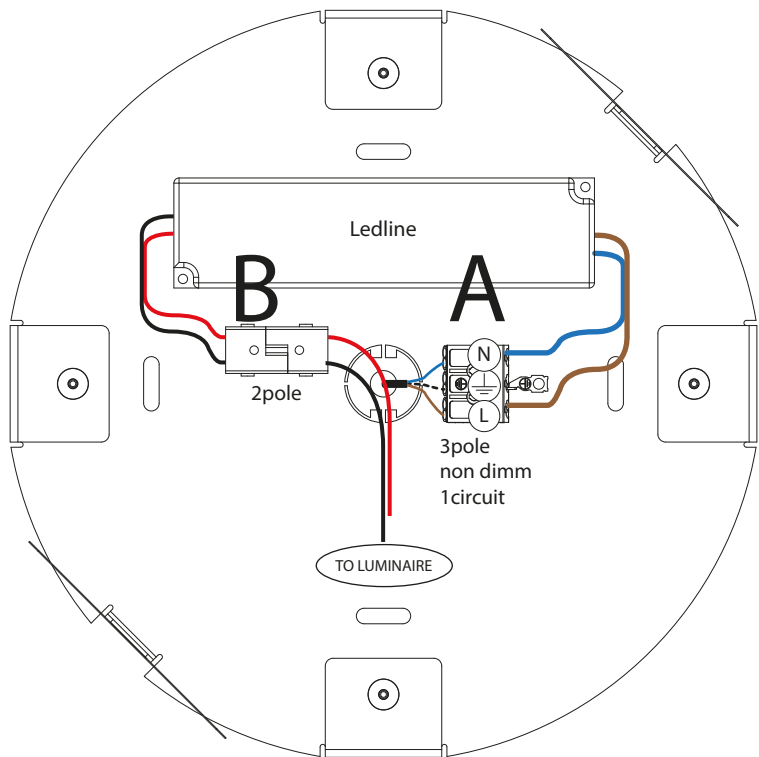


SEE NEXT PAGE FOR BASE WIRING SCHEMES

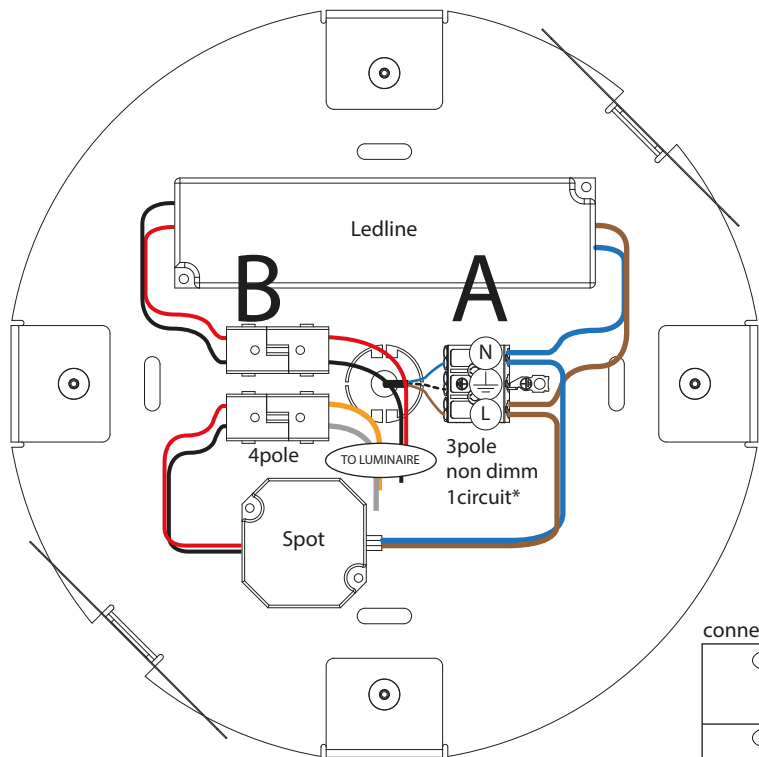
SURFACE MOUNTED CI

6 POSSIBLE WIRING SCHEMES FOR RINGO 835 BASES:

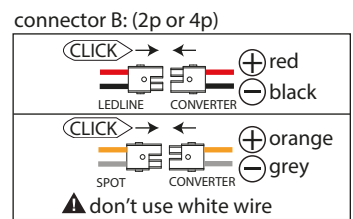
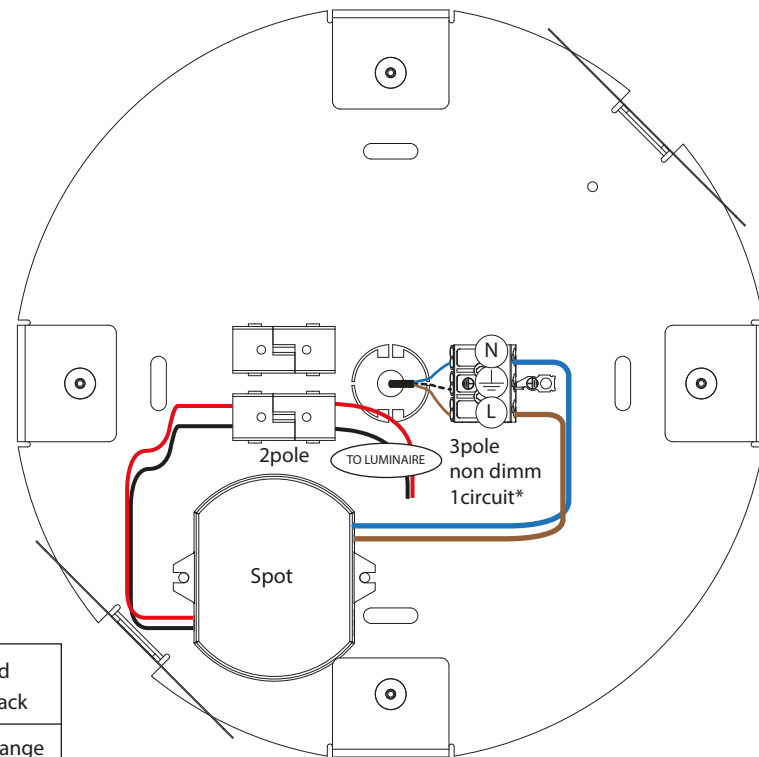
28780X / 29780X
Ringo Base Ledline



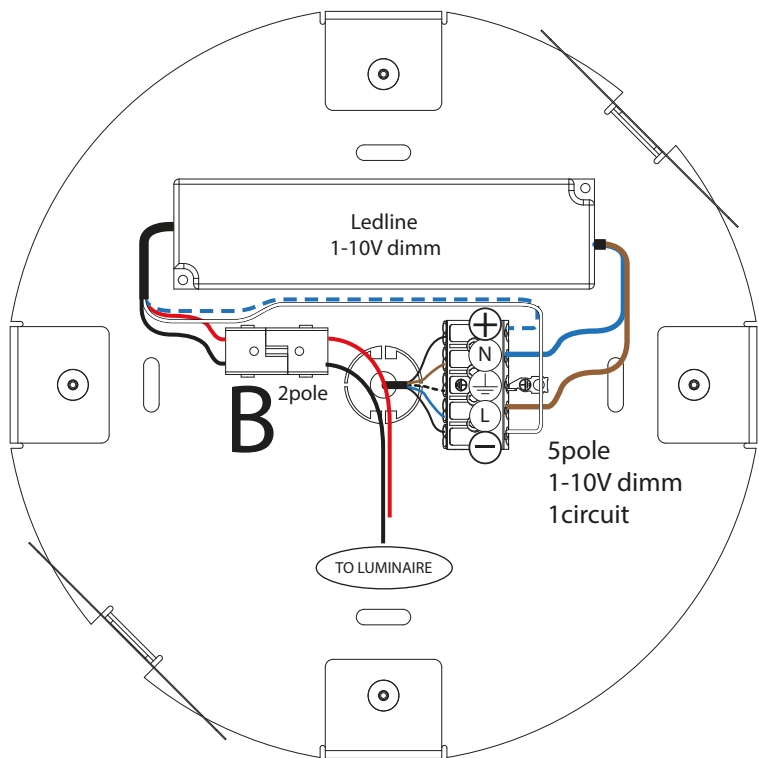
28781X / 29781X / 28782X / 29782X
Ringo Base Ledline + Spot



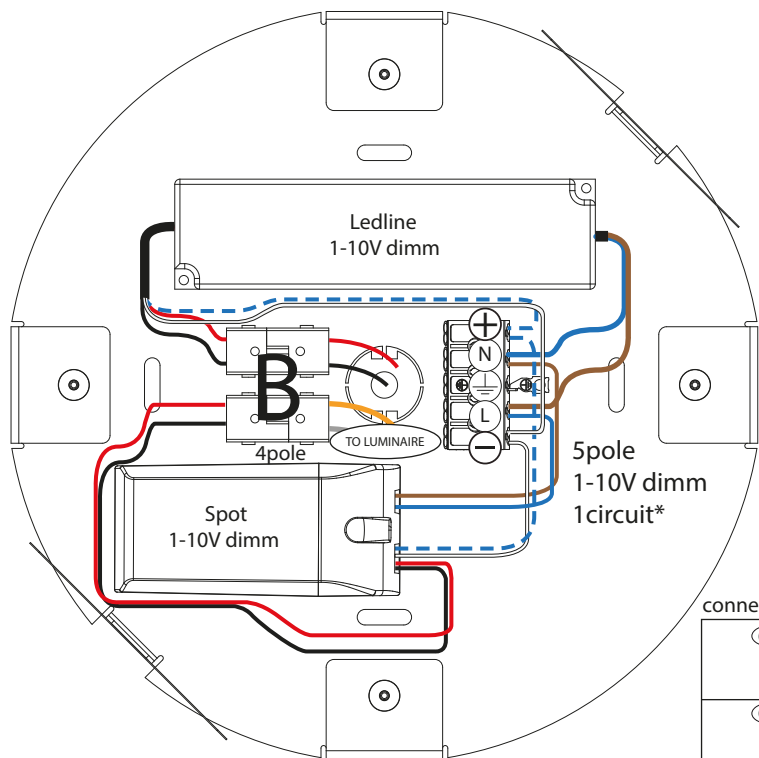
28786X / 29786X
Ringo Base Spot



28783X / 29783X
Ringo Base Ledline 1-10V DIMM

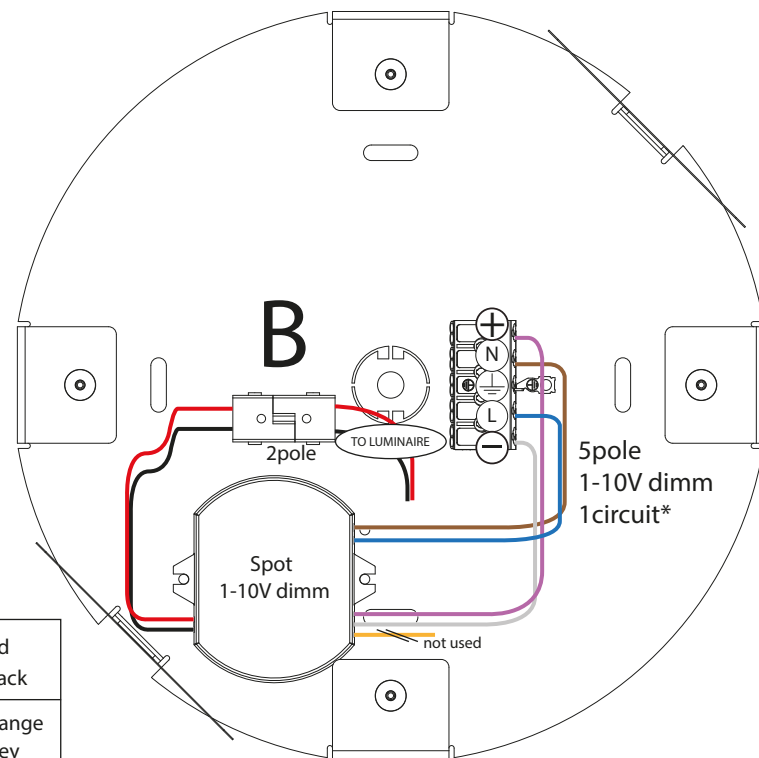


28784X / 29784X / 28785X / 29785X
Ringo Base Ledline + Spot 1-10V DIMM

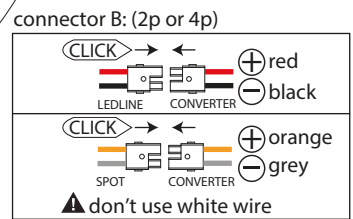


⚠ *extra primary circuit is possible on request

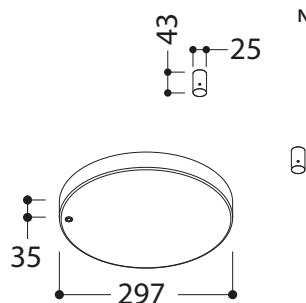
28787X / 29787X
Ringo Base Spot 1-10V DIMM



⚠ *extra primary circuit is possible on request



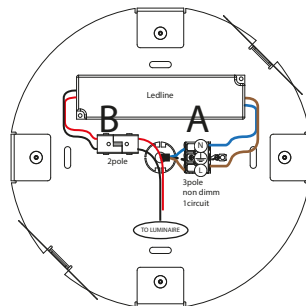
SURFACE MOUNTED CI



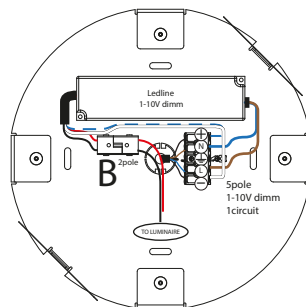
NAME

RINGO 835 SURFACE CI BASE
ARTICLE RANGE

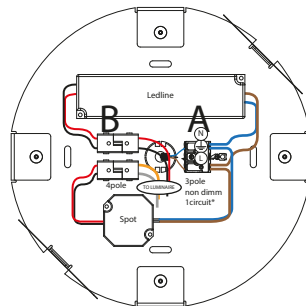
287800	SURFACE MOUNTED BASE CI 24W LEDLINE	ANODIC BROWN
297800	SURFACE MOUNTED BASE CI 24W LEDLINE	TEXT. BLACK
297801	SURFACE MOUNTED BASE CI 24W LEDLINE	TEXT. WHITE
287803	SURFACE MOUNTED BASE CI 36W LEDLINE	ANODIC BROWN
297803	SURFACE MOUNTED BASE CI 36W LEDLINE	TEXT. BLACK
297804	SURFACE MOUNTED BASE CI 36W LEDLINE	TEXT. WHITE
287806	SURFACE MOUNTED BASE CI 48W LEDLINE	ANODIC BROWN
297806	SURFACE MOUNTED BASE CI 48W LEDLINE	TEXT. BLACK
297807	SURFACE MOUNTED BASE CI 48W LEDLINE	TEXT. WHITE



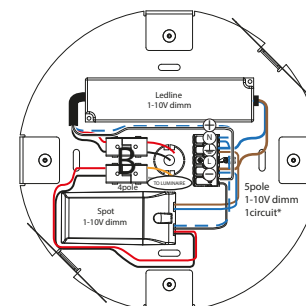
287830	SURFACE MOUNTED BASE CI 24W LEDLINE 1-10V DIMM	ANODIC BROWN
297830	SURFACE MOUNTED BASE CI 24W LEDLINE 1-10V DIMM	TEXT. BLACK
297831	SURFACE MOUNTED BASE CI 24W LEDLINE 1-10V DIMM	TEXT. WHITE
287833	SURFACE MOUNTED BASE CI 36W LEDLINE 1-10V DIMM	ANODIC BROWN
297833	SURFACE MOUNTED BASE CI 36W LEDLINE 1-10V DIMM	TEXT. BLACK
297834	SURFACE MOUNTED BASE CI 36W LEDLINE 1-10V DIMM	TEXT. WHITE
287836	SURFACE MOUNTED BASE CI 48W LEDLINE 1-10V DIMM	ANODIC BROWN
297836	SURFACE MOUNTED BASE CI 48W LEDLINE 1-10V DIMM	TEXT. BLACK
297837	SURFACE MOUNTED BASE CI 48W LEDLINE 1-10V DIMM	TEXT. WHITE



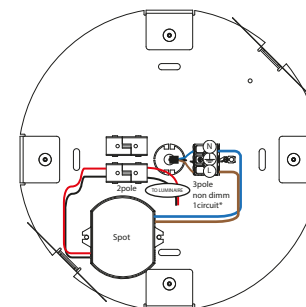
287820	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN
297820	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK
297821	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE
287822	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN
297822	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK
297823	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE
287824	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA)	ANODIC BROWN
297824	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA)	TEXT. BLACK
297825	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA)	TEXT. WHITE
287826	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA)	ANODIC BROWN
297826	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA)	TEXT. BLACK
297827	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA)	TEXT. WHITE
287828	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN
297828	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK
297829	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE
287814	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN
297814	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK
297815	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE
287816	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN
297816	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK
297817	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE
287818	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN
297818	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK
297819	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA)	TEXT. WHITE



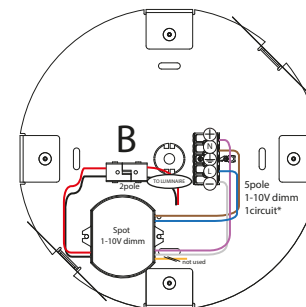
287850	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANO BROWN
297850	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
297851	SURFACE MOUNTED BASE CI 24W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
287852	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	ANO BROWN
297852	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
297853	SURFACE MOUNTED BASE CI 24W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
287854	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	ANO BROWN
297854	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
297855	SURFACE MOUNTED BASE CI 24W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
287856	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	ANO BROWN
297856	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
297857	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
287858	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANO BROWN
297858	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK
297859	SURFACE MOUNTED BASE CI 24W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE
287844	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANO BROWN
297844	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
297845	SURFACE MOUNTED BASE CI 36W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
287846	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	ANO BROWN
297846	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
297847	SURFACE MOUNTED BASE CI 36W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
287848	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANO BROWN
297848	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK
297849	SURFACE MOUNTED BASE CI 36W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE



287860	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	ANODIC BROWN
297860	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	TEXT. BLACK
297861	SURFACE MOUNTED BASE CI 14W SPOT (250mA)	TEXT. WHITE
287862	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	ANODIC BROWN
297862	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	TEXT. BLACK
297863	SURFACE MOUNTED BASE CI 12W SPOT (350mA)	TEXT. WHITE
287864	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	ANODIC BROWN
297864	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	TEXT. BLACK
297865	SURFACE MOUNTED BASE CI 28W SPOT (250mA)	TEXT. WHITE
287866	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	ANODIC BROWN
297866	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	TEXT. BLACK
297867	SURFACE MOUNTED BASE CI 24W SPOT (350mA)	TEXT. WHITE
287868	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	ANODIC BROWN
297868	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	TEXT. BLACK
297869	SURFACE MOUNTED BASE CI 24W SPOT (700mA)	TEXT. WHITE

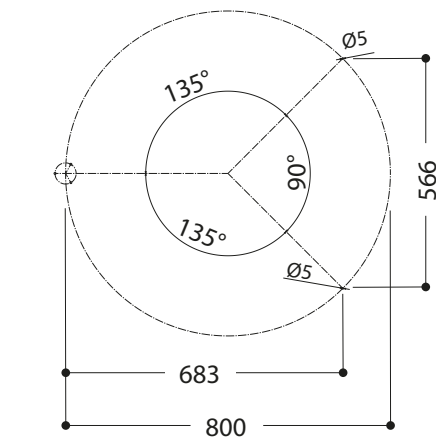


287870	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN
297870	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
297871	SURFACE MOUNTED BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
287872	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN
297872	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
297873	SURFACE MOUNTED BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
287874	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN
297874	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK
297875	SURFACE MOUNTED BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. WHITE
287876	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN
297876	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. BLACK
297877	SURFACE MOUNTED BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE
287878	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN
297878	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK
297879	SURFACE MOUNTED BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. WHITE

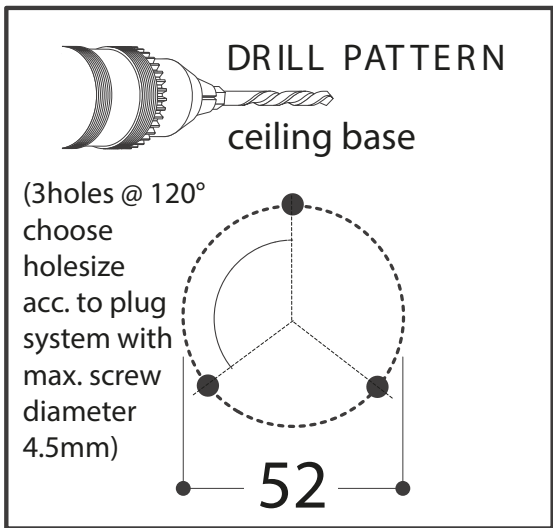


SURFACE MOUNTED WC

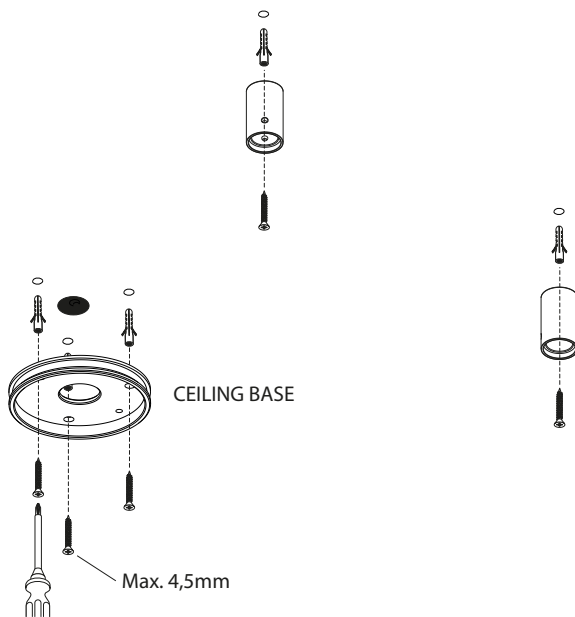
- 1 Make drill pattern according to Ringo size
RINGO 835:



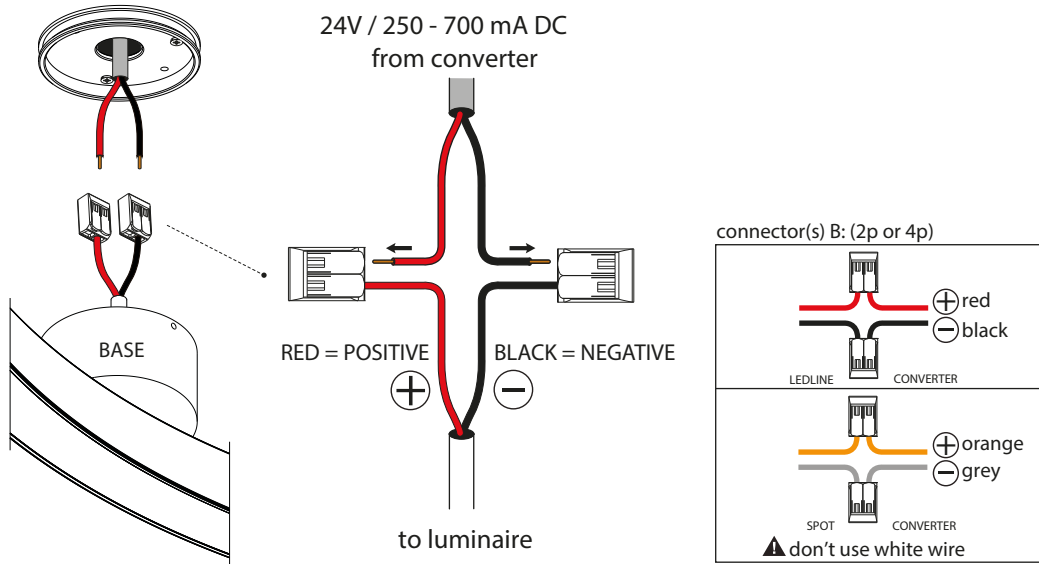
IT IS ALSO POSSIBLE TO MAKE THE DRILL PATTERN OVER 120°



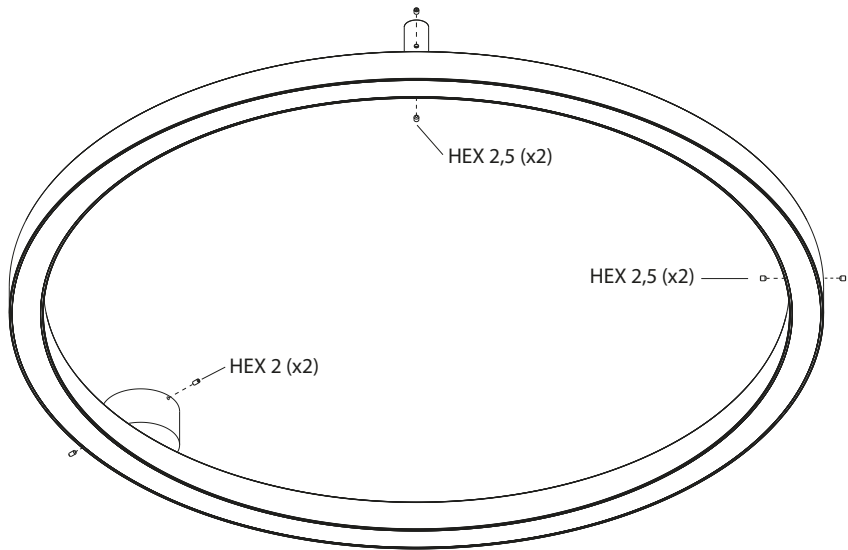
- 2 Mount the ceiling base + support brackets



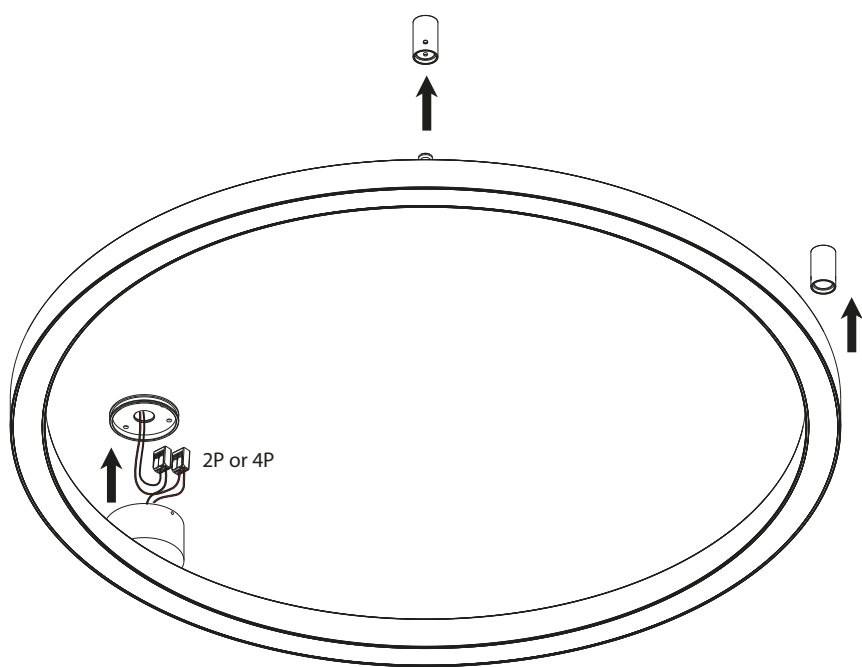
- 3 Make electrical connection 2P/4P



- 5 Fix the ceiling brackets and switch on mains power supply



- 4 Mount the Ringo on to the ceiling brackets



RINGO SURFACE MOUNTED BASE SET

REFERENCE		
297890	BASE WC 2P (ledline)	TEXT. BLACK
297891	BASE WC 2P (ledline)	TEXT. WHITE
297892	BASE WC 2P (ledline)	ANODIC BROWN
297893	BASE WC 4P (ledline+spot)	TEXT. BLACK
297894	BASE WC 4P (ledline+spot)	TEXT. WHITE
297895	BASE WC 4P (ledline+spot)	ANODIC BROWN
SPECIFICATIONS		
	Voltage / Current	24V / 250 - 700mA DC
	Gear	converter not incorporated
	Class / IP	IP20
	Application	interior - surface mounted
	Weight	0,4 kg

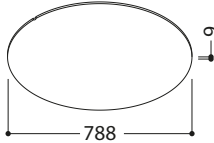
RINGO 835 POWER CONSUMPTION /180°

	TYPE A - 180° LEDLINE Ledline power consumption 1/2 circle: - 2700K / 3000K / 4000K = 22,4W - 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 = 11,2W - 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 = 11,2W - 24V

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

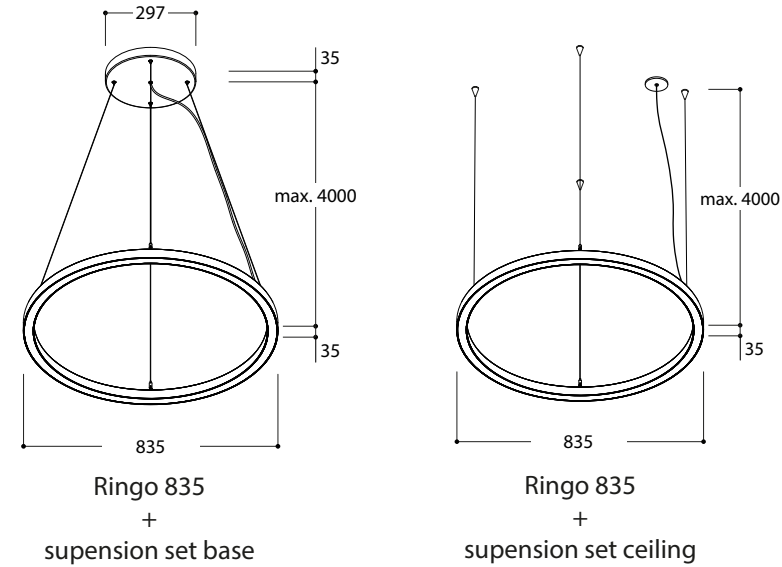
FELT ACCESSORY

RINGO 835 FELT COVER

	297706	RINGO 835 FELT COVER ANTHRACITE	 kg
	297707	RINGO 835 FELT COVER MARBLE	
SPECIFICATIONS	Application	 interior - suspended	

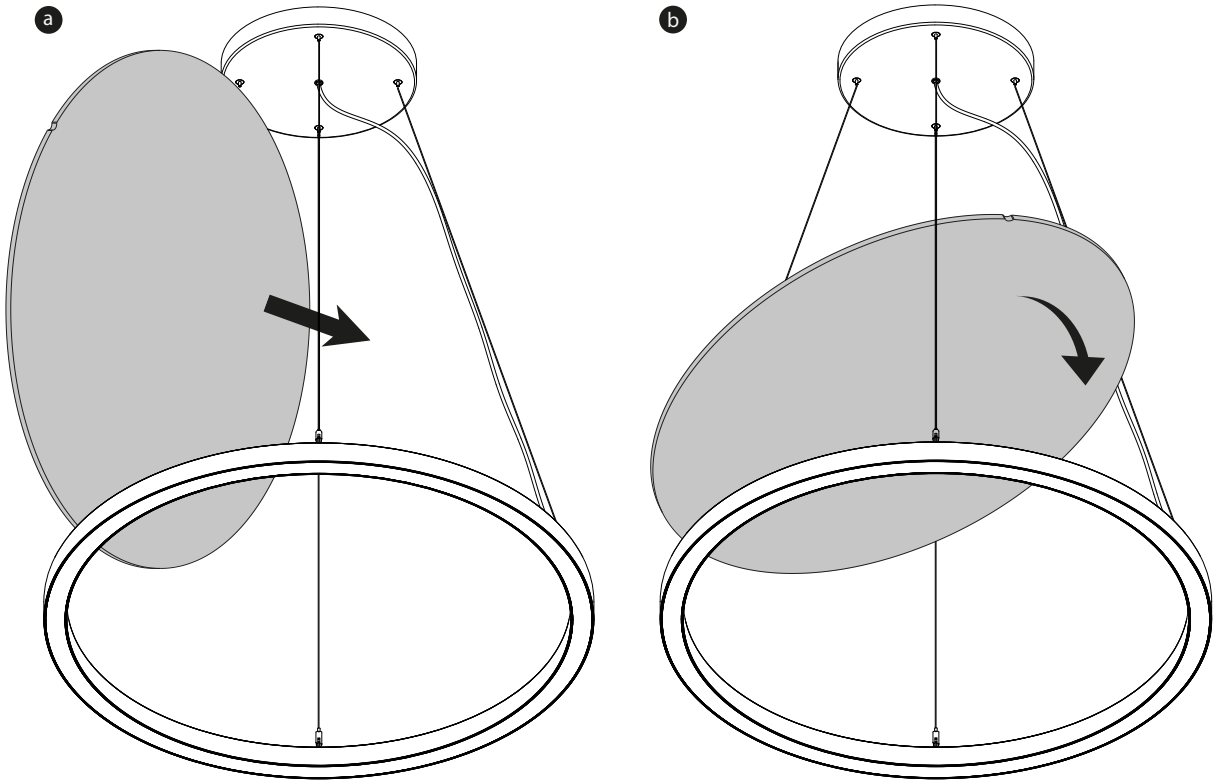
! RINGO 835 FELT COVER CAN ONLY BE USED IN COMBINATION WITH RINGO SUSPENSION MODELS. THE RINGO 835 FELT COVER IS NOT COMPATIBLE WITH RINGO 835 SURFACE MOUNTED MODELS

Compatible Ringo 835 devices:

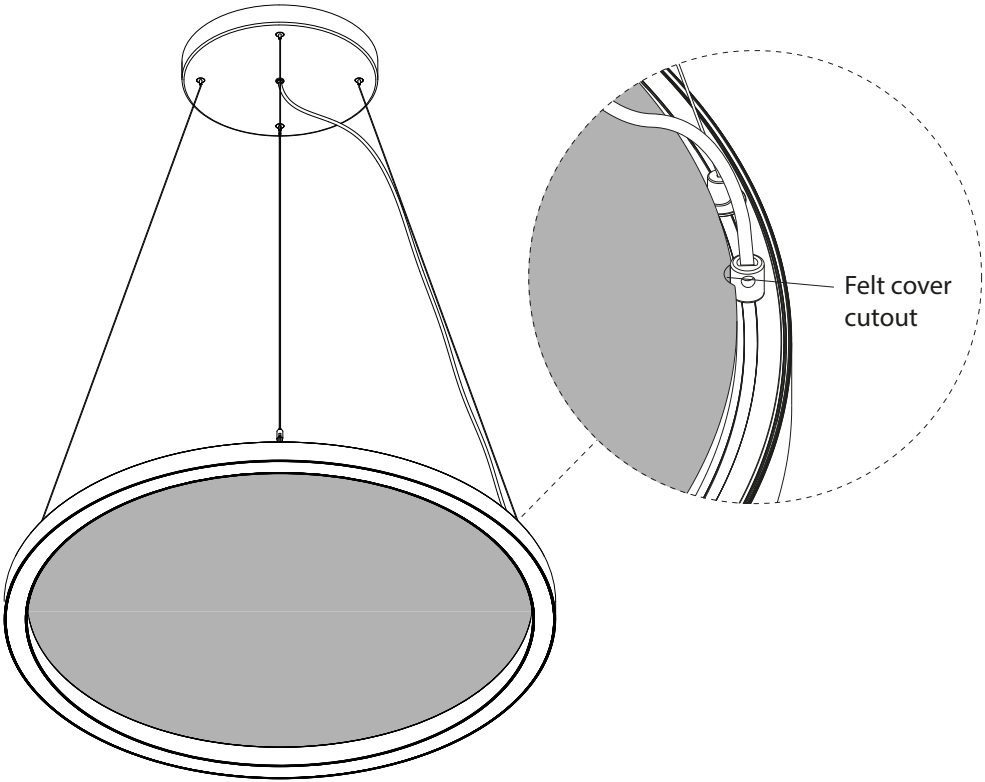


IN CASE OF SUSPENSION SET BASE:

1 Insert the felt panel between the steel suspension wires

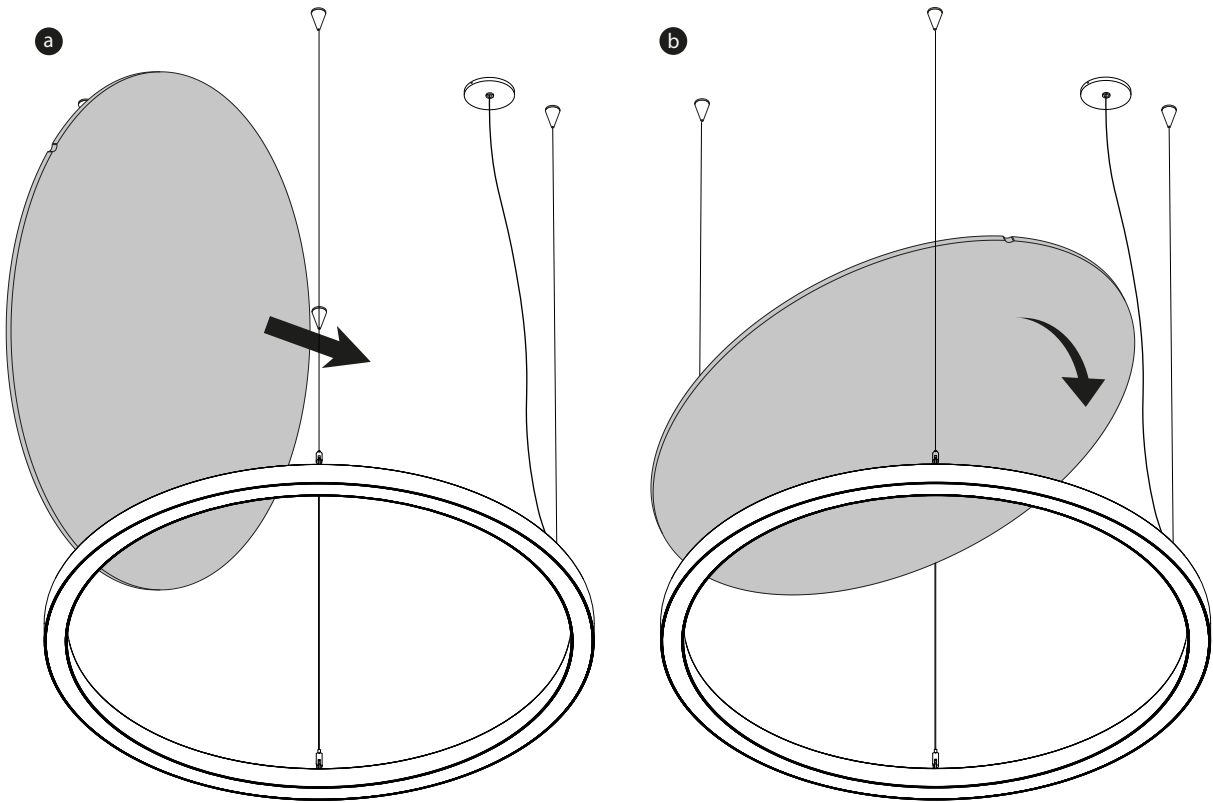


2 Orient the felt cover and let it rest on the Ringo housing.
Make sure the felt cover cutout is oriented alongside the strain relief

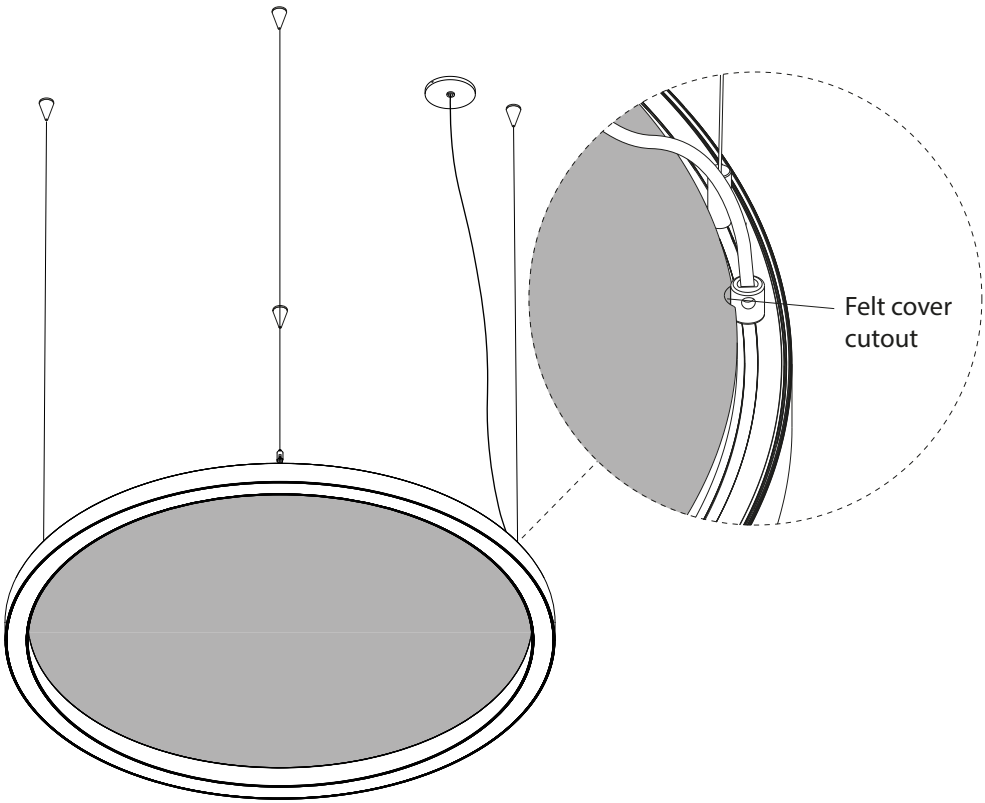


IN CASE OF SUSPENSION SET CEILING:

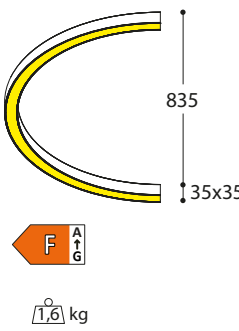
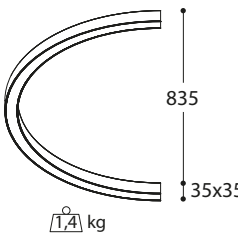
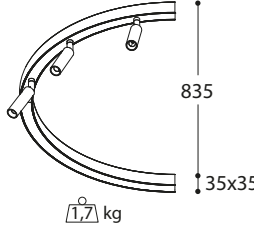
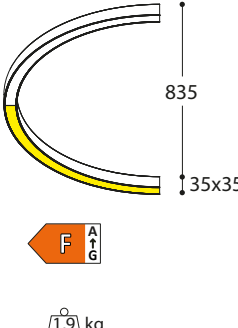
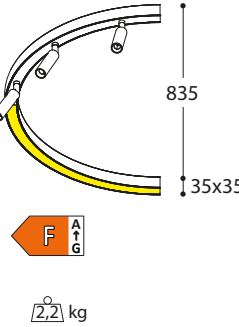
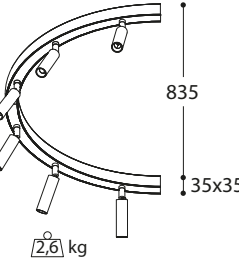
1 Insert the felt panel between the steel suspension wires



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 835 TYPE A - F ARTICLE RANGE								
297025	180° LEDLINE 2700K - ANODIC BROWN	TYPE A		297425	180° EMPTY - ANODIC BROWN	TYPE D		
297026	180° LEDLINE 2700K - TEXT. BLACK	TYPE A		297426	180° EMPTY - TEXT. BLACK	TYPE D		
297027	180° LEDLINE 2700K - TEXT. WHITE	TYPE A		297427	180° EMPTY - TEXT. WHITE	TYPE D		
297053	180° LEDLINE 2700K - BRUSHED ANODIC GOLD	TYPE A		297453	180° EMPTY - BRUSHED ANODIC GOLD	TYPE D		
297054	180° LEDLINE 2700K - BRUSHED ANODIC TITANIUM	TYPE A		297454	180° EMPTY - BRUSHED ANODIC TITANIUM	TYPE D		
297055	180° LEDLINE 2700K - BRUSHED ANODIC BRONZE	TYPE A		297455	180° EMPTY - BRUSHED ANODIC BRONZE	TYPE D		
297035	180° LEDLINE 3000K - ANODIC BROWN	TYPE A						
297036	180° LEDLINE 3000K - TEXT. BLACK	TYPE A		297525	90° EMPTY + 90° 3xM10 - ANODIC BROWN	TYPE E		
297037	180° LEDLINE 3000K - TEXT. WHITE	TYPE A		297526	90° EMPTY + 90° 3xM10 - TEXT. BLACK	TYPE E		
297063	180° LEDLINE 3000K - BRUSHED ANODIC GOLD	TYPE A		297527	90° EMPTY + 90° 3xM10 - TEXT. WHITE	TYPE E		
297064	180° LEDLINE 3000K - BRUSHED ANODIC TITANIUM	TYPE A		297553	90° EMPTY + 90° 3xM10 - BRUSHED ANODIC GOLD	TYPE E		
297065	180° LEDLINE 3000K - BRUSHED ANODIC BRONZE	TYPE A		297554	90° EMPTY + 90° 3xM10 - BRUSHED ANODIC TITANIUM	TYPE E		
297045	180° LEDLINE 4000K - ANODIC BROWN	TYPE A		297555	90° EMPTY + 90° 3xM10 - BRUSHED ANODIC BRONZE	TYPE E		
297046	180° LEDLINE 4000K - TEXT. BLACK	TYPE A						
297047	180° LEDLINE 4000K - TEXT. WHITE	TYPE A		297615	90° LEDLINE 2700K + 90° EMPTY - ANODIC BROWN	TYPE F		
297073	180° LEDLINE 4000K - BRUSHED ANODIC GOLD	TYPE A		297616	90° LEDLINE 2700K + 90° EMPTY - TEXT. BLACK	TYPE F		
297074	180° LEDLINE 4000K - BRUSHED ANODIC TITANIUM	TYPE A		297617	90° LEDLINE 2700K + 90° EMPTY - TEXT. WHITE	TYPE F		
297075	180° LEDLINE 4000K - BRUSHED ANODIC BRONZE	TYPE A		297653	90° LEDLINE 2700K + 90° EMPTY - BRUSHED ANO GOLD	TYPE F		
				297654	90° LEDLINE 2700K + 90° EMPTY - BRUSHED ANO TITANIUM	TYPE F		
297125	90° LEDLINE 2700K + 90° 3xM10 - ANODIC BROWN	TYPE B		297655	90° LEDLINE 2700K + 90° EMPTY - BRUSHED ANO BRONZE	TYPE F		
297126	90° LEDLINE 2700K + 90° 3xM10 - TEXT. BLACK	TYPE B		297635	90° LEDLINE 3000K + 90° EMPTY - ANODIC BROWN	TYPE F		
297127	90° LEDLINE 2700K + 90° 3xM10 - TEXT. WHITE	TYPE B		297636	90° LEDLINE 3000K + 90° EMPTY - TEXT. BLACK	TYPE F		
297153	90° LEDLINE 2700K + 90° 3xM10 - BRUSHED ANO GOLD	TYPE B		297637	90° LEDLINE 3000K + 90° EMPTY - TEXT. WHITE	TYPE F		
297154	90° LEDLINE 2700K + 90° 3xM10 - BRUSHED ANO TITANIUM	TYPE B		297663	90° LEDLINE 3000K + 90° EMPTY - BRUSHED ANO GOLD	TYPE F		
297155	90° LEDLINE 2700K + 90° 3xM10 - BRUSHED ANO BRONZE	TYPE B		297664	90° LEDLINE 3000K + 90° EMPTY - BRUSHED ANO TITANIUM	TYPE F		
297135	90° LEDLINE 3000K + 90° 3xM10 - ANODIC BROWN	TYPE B		297665	90° LEDLINE 3000K + 90° EMPTY - BRUSHED ANO BRONZE	TYPE F		
297136	90° LEDLINE 3000K + 90° 3xM10 - TEXT. BLACK	TYPE B		297645	90° LEDLINE 4000K + 90° EMPTY - ANODIC BROWN	TYPE F		
297137	90° LEDLINE 3000K + 90° 3xM10 - TEXT. WHITE	TYPE B		297646	90° LEDLINE 4000K + 90° EMPTY - TEXT. BLACK	TYPE F		
297163	90° LEDLINE 3000K + 90° 3xM10 - BRUSHED ANO GOLD	TYPE B		297647	90° LEDLINE 4000K + 90° EMPTY - TEXT. WHITE	TYPE F		
297164	90° LEDLINE 3000K + 90° 3xM10 - BRUSHED ANO TITANIUM	TYPE B		297663	90° LEDLINE 4000K + 90° EMPTY - BRUSHED ANO GOLD	TYPE F		
297165	90° LEDLINE 3000K + 90° 3xM10 - BRUSHED ANO BRONZE	TYPE B		297664	90° LEDLINE 4000K + 90° EMPTY - BRUSHED ANO TITANIUM	TYPE F		
297145	90° LEDLINE 4000K + 90° 3xM10 - ANODIC BROWN	TYPE B		297665	90° LEDLINE 4000K + 90° EMPTY - BRUSHED ANO BRONZE	TYPE F		
297146	90° LEDLINE 4000K + 90° 3xM10 - TEXT. BLACK	TYPE B						
297147	90° LEDLINE 4000K + 90° 3xM10 - TEXT. WHITE	TYPE B		297225	180° 6xM10 - ANODIC BROWN	TYPE C		
297173	90° LEDLINE 4000K + 90° 3xM10 - BRUSHED ANO GOLD	TYPE B		297226	180° 6xM10 - TEXT. BLACK	TYPE C		
297174	90° LEDLINE 4000K + 90° 3xM10 - BRUSHED ANO TITANIUM	TYPE B		297227	180° 6xM10 - TEXT. WHITE	TYPE C		
297175	90° LEDLINE 4000K + 90° 3xM10 - BRUSHED ANO BRONZE	TYPE B		297253	180° 6xM10 - BRUSHED ANODIC GOLD	TYPE C		
				297254	180° 6xM10 - BRUSHED ANODIC TITANIUM	TYPE C		
				297255	180° 6xM10 - BRUSHED ANODIC BRONZE	TYPE C		

RINGO EXTRA CIRCUIT

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