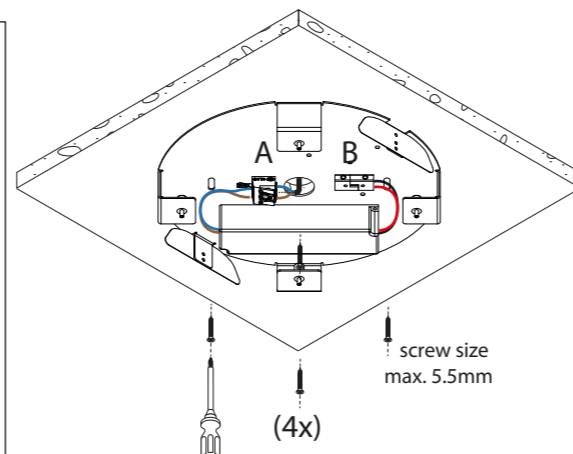
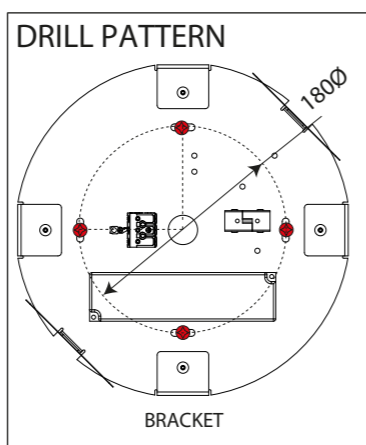


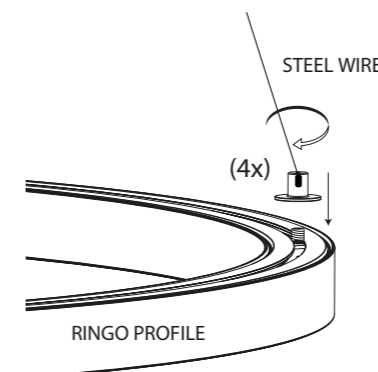
NAME	RINGO 1535 SUSPENSION CI		
REFERENCE	299025 - 180° LEDLINE 2700K - ANODIC BROWN TYPE A	F A G	
	299026 - 180° LEDLINE 2700K - TEXT. BLACK TYPE A		
	299027 - 180° LEDLINE 2700K - TEXT. WHITE TYPE A	2,2 kg	
	299035 - 180° LEDLINE 3000K - ANODIC BROWN TYPE A		
	299036 - 180° LEDLINE 3000K - TEXT. BLACK TYPE A		
	299037 - 180° LEDLINE 3000K - TEXT. WHITE TYPE A		
	299045 - 180° LEDLINE 4000K - ANODIC BROWN TYPE A		
	299046 - 180° LEDLINE 4000K - TEXT. BLACK TYPE A		
	299047 - 180° LEDLINE 4000K - TEXT. WHITE TYPE A		
	299125 - 90° LEDLINE 2700K + 90° 3xM10 - ANODIC BROWN TYPE B		F A G
	299126 - 90° LEDLINE 2700K + 90° 3xM10 - TEXT. BLACK TYPE B		
			299127 - 90° LEDLINE 2700K + 90° 3xM10 - TEXT. WHITE TYPE B
299135 - 90° LEDLINE 3000K + 90° 3xM10 - ANODIC BROWN TYPE B			
299136 - 90° LEDLINE 3000K + 90° 3xM10 - TEXT. BLACK TYPE B			
299137 - 90° LEDLINE 3000K + 90° 3xM10 - TEXT. WHITE TYPE B			
299145 - 90° LEDLINE 4000K + 90° 3xM10 - ANODIC BROWN TYPE B			
299146 - 90° LEDLINE 4000K + 90° 3xM10 - TEXT. BLACK TYPE B			
299147 - 90° LEDLINE 4000K + 90° 3xM10 - TEXT. WHITE TYPE B			
299225 - 180° 6xM10 - ANODIC BROWN TYPE C		3,2 kg	
299226 - 180° 6xM10 - TEXT. BLACK TYPE C			
299227 - 180° 6xM10 - TEXT. WHITE TYPE C			
	299425 - 180° EMPTY - ANODIC BROWN TYPE D	2 kg	
	299426 - 180° EMPTY - TEXT. BLACK TYPE D		
	299427 - 180° EMPTY - TEXT. WHITE TYPE D		
	299525 - 90° EMPTY + 90° 3xM10 - ANODIC BROWN TYPE E	2,3 kg	
	299526 - 90° EMPTY + 90° 3xM10 - TEXT. BLACK TYPE E		
	299527 - 90° EMPTY + 90° 3xM10 - TEXT. WHITE TYPE E		
	299615 - 90° LEDLINE 2700K + 90° EMPTY - ANODIC BROWN TYPE F	F A G	
	299616 - 90° LEDLINE 2700K + 90° EMPTY - TEXT. BLACK TYPE F		
	299617 - 90° LEDLINE 2700K + 90° EMPTY - TEXT. WHITE TYPE F		
	299635 - 90° LEDLINE 3000K + 90° EMPTY - ANODIC BROWN TYPE F		
	299636 - 90° LEDLINE 3000K + 90° EMPTY - TEXT. BLACK TYPE F		
	299637 - 90° LEDLINE 3000K + 90° EMPTY - TEXT. WHITE TYPE F		
	299645 - 90° LEDLINE 4000K + 90° EMPTY - ANODIC BROWN TYPE F		
	299646 - 90° LEDLINE 4000K + 90° EMPTY - TEXT. BLACK TYPE F		
	299647 - 90° LEDLINE 4000K + 90° EMPTY - TEXT. WHITE TYPE F		
			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			
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 = 5200lm per 180° (A), per spot = see manual	
	Power	ledline = 48W 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	converter incorporated in base		
Dimmability	depending on base		
Safe distance to object	0,1m		
Class / IP	IP20		
Application	Interior - ceiling suspended		

INSTALLATION

- 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)



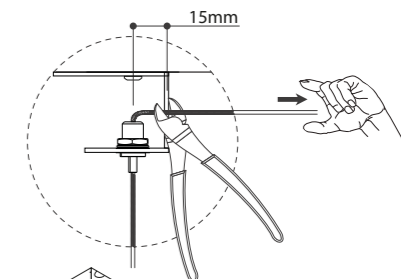
- PREPARE SUSPENSION WIRES (4x @90°)
 AND SCREW KNURLED KNOBS TO BRASS INSERTS (M5)
 ON TOP OF RINGO PROFILE



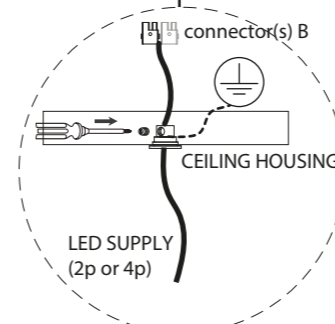
- PUSH 4 STEEL WIRES THROUGH HOLES IN CEILING HOUSING
 AND INTO WIRE CLAMPS ON BRACKET

.FINE ALIGN RINGO PROFILE HORIZONTALLY

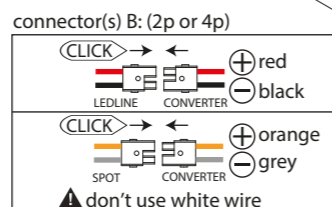
.CUT STEEL WIRES ONCE SUSPENSION HEIGHT IS DETERMINED
 (leave 15mm)



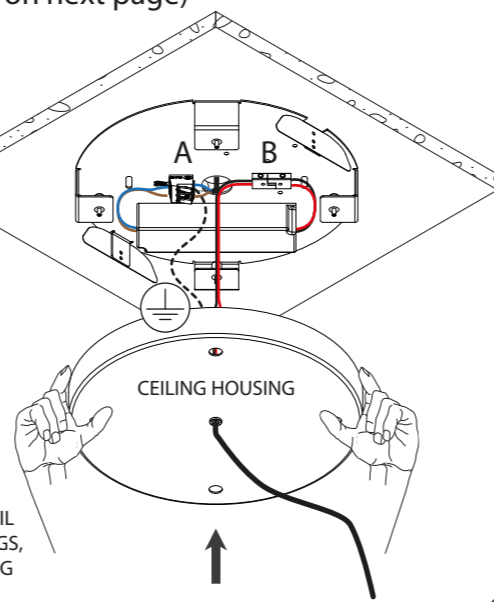
- ADJUST LED SUPPLY CABLE LENGTH
 AND FASTEN STRAIN RELIEF ON INSIDE OF CEILING HOUSING



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



- SWITCH ON MAINS POWER SUPPLY
 (ORIENT SPOT LUMINAIRES)



- 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

IMPOSSIBLE COMBINATIONS:
 - TYPE C + C - TYPE D + D
 - TYPE C + E - TYPE D + F

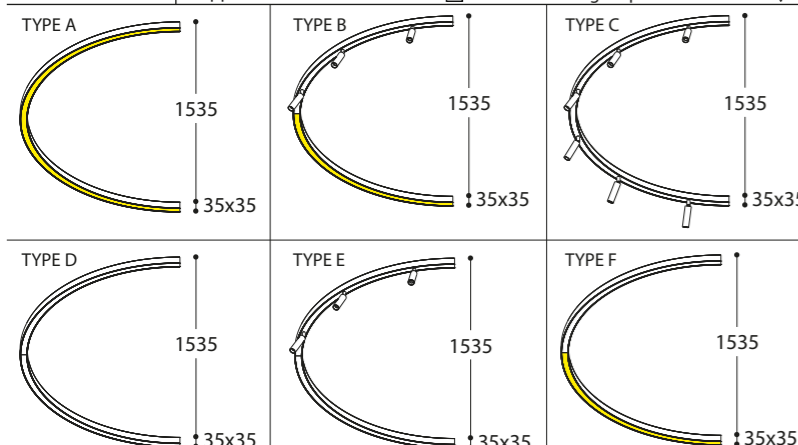
ACCESSORY		optional (II)
NAME	ACCESSORY NAME	
REFERENCE	892630	EXTRA CIRCUIT /m COMMON NEUTRAL
	892631	EXTRA CIRCUIT /m NO COMMON NEUTRAL
	892632	EXTRA CIRCUIT /m FOR DIMMING SIGNAL

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

- 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 verkoopvoorwaarden 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.

- 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.

- 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.
- 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.

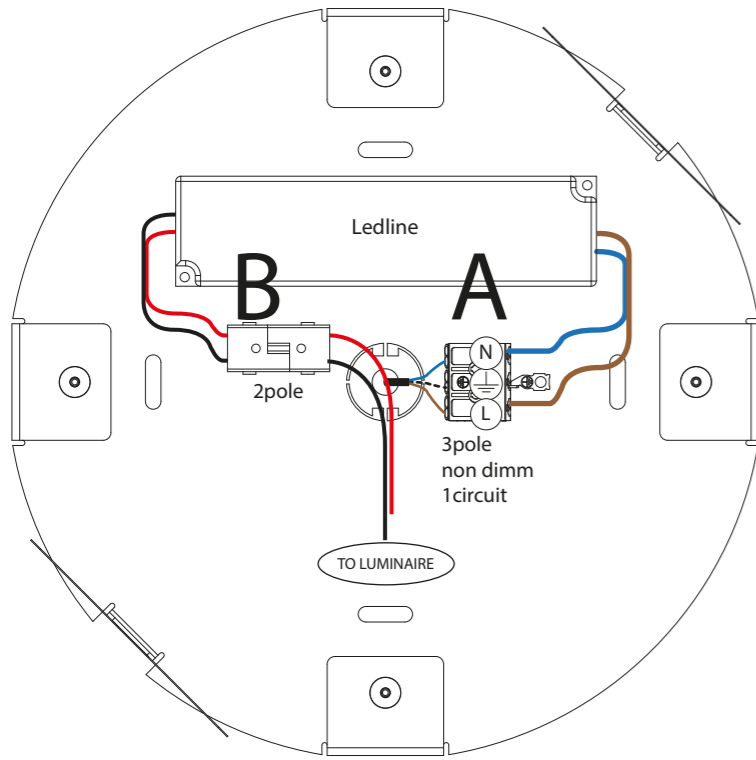


SEE NEXT PAGE FOR BASE WIRING SCHEMES

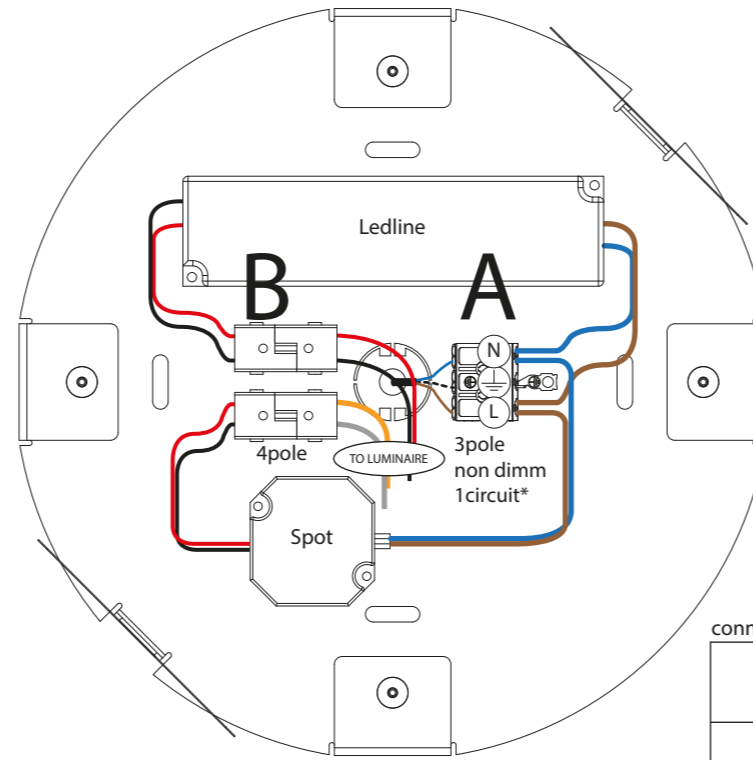
PENDING RANGE:
 MIN: 1150mm
 MAX: 4000mm

6 POSSIBLE WIRING SCHEMES FOR RINGO 1535 BASES:

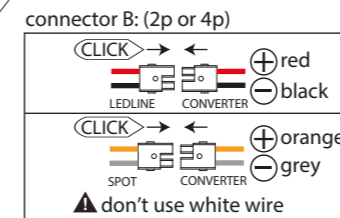
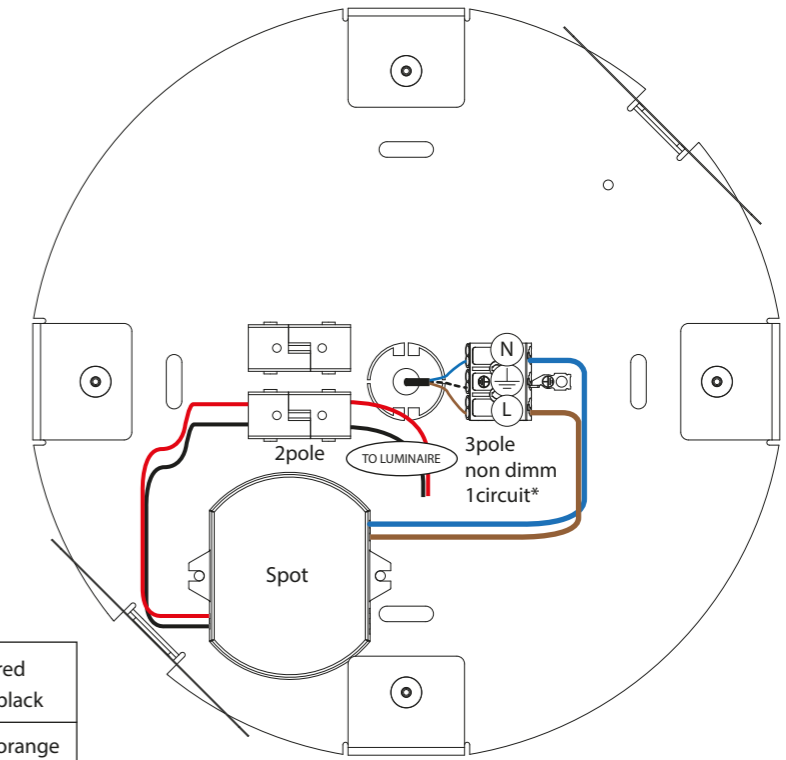
28930X / 29930X
Ringo Base Ledline



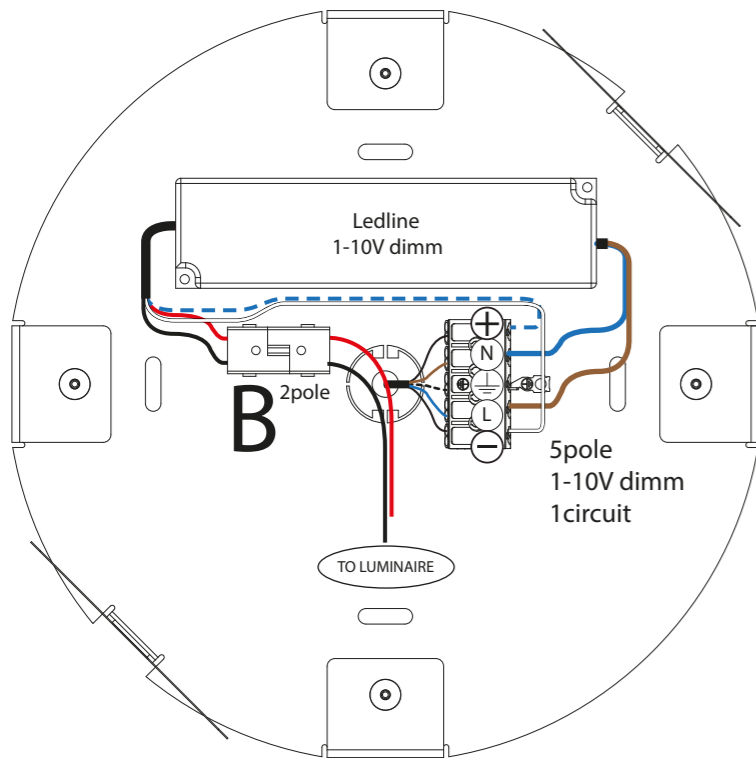
28931X / 29931X / 28932X / 29932X
Ringo Base Ledline + Spot



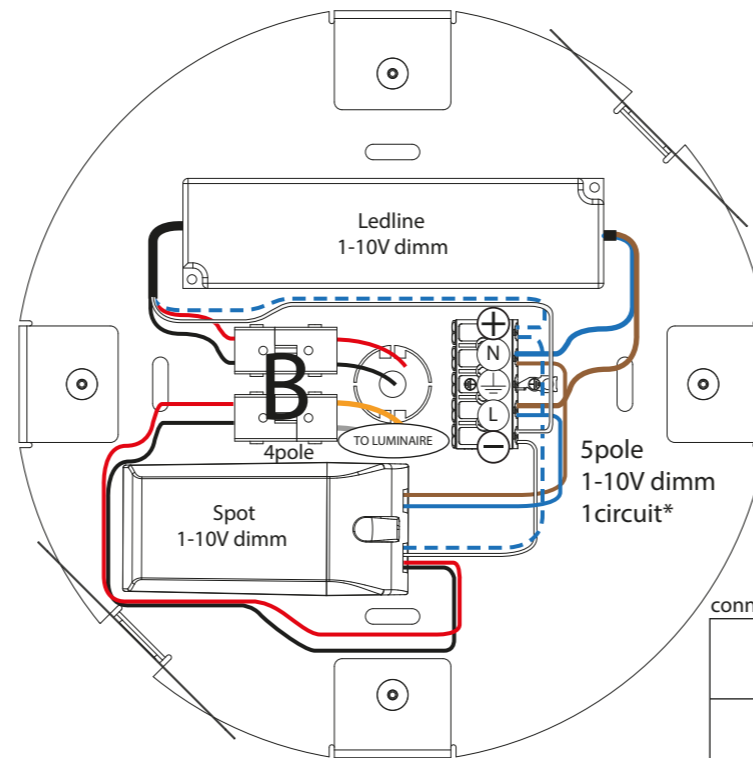
28936X / 29936X
Ringo Base Spot



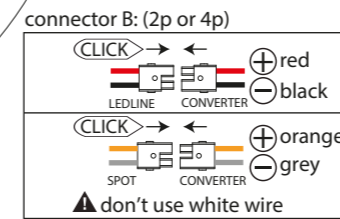
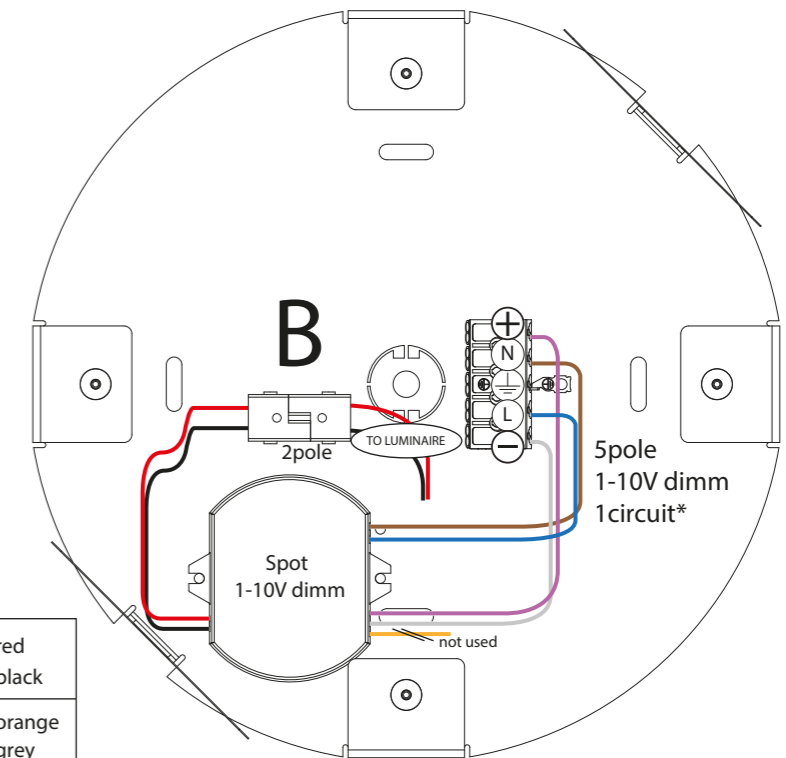
28933X / 29933X
Ringo Base Ledline 1-10V DIMM




28934X / 29934X / 28935X / 29935X
Ringo Base Ledline + Spot 1-10V DIMM



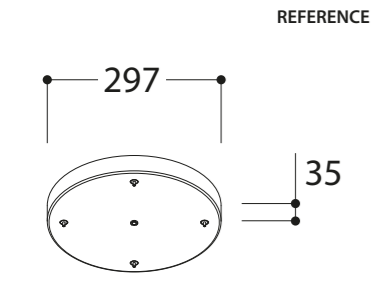
28937X / 29937X
Ringo Base Spot 1-10V DIMM

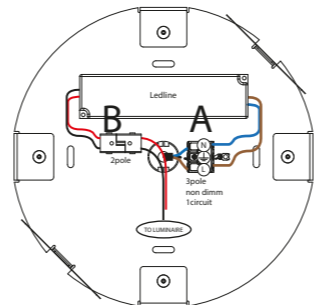
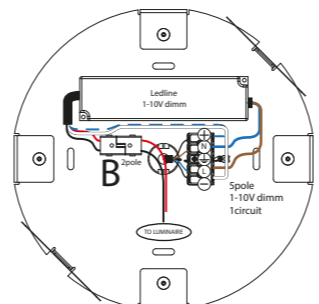
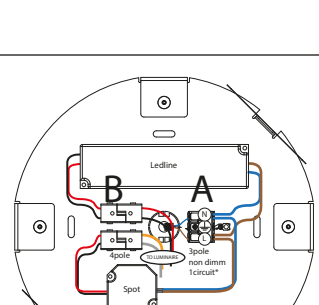
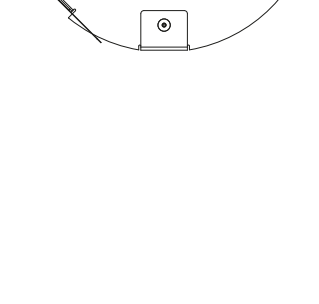
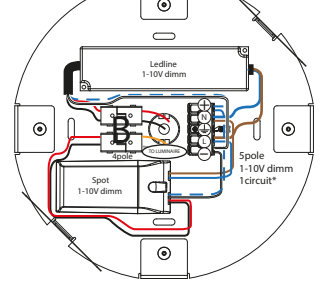



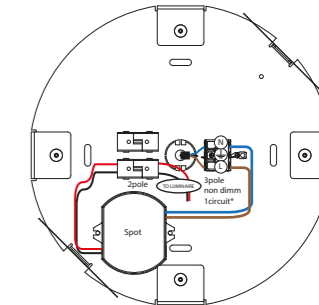
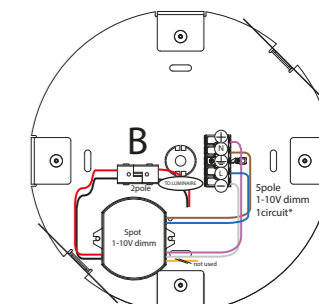





 *extra primary circuit is possible on request

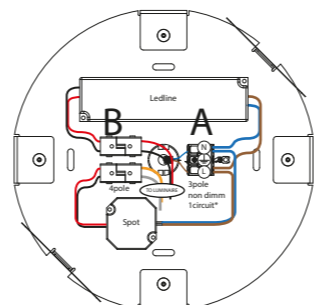

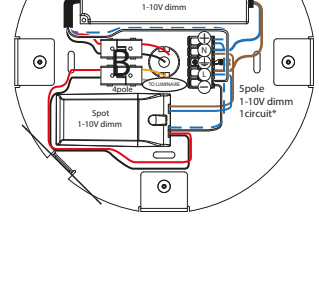


 *extra primary circuit is possible on request

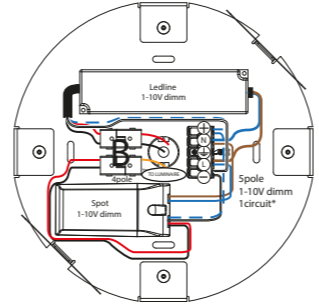


NAME	RINGO SUSPENSION CI BASE						
	ARTICLE RANGE						



REFERENCE	ARTICLE RANGE	ANODIC BROWN				
289300	RINGO 835 SUSPENSION BASE CI 48W LEDLINE	TEXT. BLACK				
289301	RINGO 835 SUSPENSION BASE CI 48W LEDLINE	TEXT. WHITE				
289303	RINGO 835 SUSPENSION BASE CI 71W LEDLINE	ANODIC BROWN				
289304	RINGO 835 SUSPENSION BASE CI 71W LEDLINE	TEXT. WHITE				
289306	RINGO 835 SUSPENSION BASE CI 94W LEDLINE	ANODIC BROWN				
289307	RINGO 835 SUSPENSION BASE CI 94W LEDLINE	TEXT. BLACK				
289330	RINGO 835 SUSPENSION BASE CI 48W LEDLINE 1-10V DIMM	ANODIC BROWN				
289331	RINGO 835 SUSPENSION BASE CI 48W LEDLINE 1-10V DIMM	TEXT. BLACK				
289333	RINGO 835 SUSPENSION BASE CI 71W LEDLINE 1-10V DIMM	TEXT. WHITE				
289334	RINGO 835 SUSPENSION BASE CI 71W LEDLINE 1-10V DIMM	ANODIC BROWN				
289336	RINGO 835 SUSPENSION BASE CI 94W LEDLINE 1-10V DIMM	TEXT. BLACK				
289337	RINGO 835 SUSPENSION BASE CI 94W LEDLINE 1-10V DIMM	TEXT. WHITE				

289360	RINGO 835 SUSPENSION BASE CI 14W SPOT (250mA)	ANODIC BROWN				
289361	RINGO 835 SUSPENSION BASE CI 14W SPOT (250mA)	TEXT. BLACK				
289362	RINGO 835 SUSPENSION BASE CI 12W SPOT (350mA)	ANODIC BROWN				
289363	RINGO 835 SUSPENSION BASE CI 12W SPOT (350mA)	TEXT. WHITE				
289364	RINGO 835 SUSPENSION BASE CI 28W SPOT (250mA)	ANODIC BROWN				
289365	RINGO 835 SUSPENSION BASE CI 28W SPOT (250mA)	TEXT. BLACK				
289366	RINGO 835 SUSPENSION BASE CI 24W SPOT (350mA)	ANODIC BROWN				
289367	RINGO 835 SUSPENSION BASE CI 24W SPOT (350mA)	TEXT. WHITE				
289368	RINGO 835 SUSPENSION BASE CI 24W SPOT (700mA)	ANODIC BROWN				
289369	RINGO 835 SUSPENSION BASE CI 24W SPOT (700mA)	TEXT. BLACK				
289370	RINGO 835 SUSPENSION BASE CI 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN				
289371	RINGO 835 SUSPENSION BASE CI 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK				
289372	RINGO 835 SUSPENSION BASE CI 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE				
289373	RINGO 835 SUSPENSION BASE CI 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN				
289374	RINGO 835 SUSPENSION BASE CI 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN				
289375	RINGO 835 SUSPENSION BASE CI 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK				
289376	RINGO 835 SUSPENSION BASE CI 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN				
289377	RINGO 835 SUSPENSION BASE CI 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE				
289378	RINGO 835 SUSPENSION BASE CI 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN				
289379	RINGO 835 SUSPENSION BASE CI 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK				

289320	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN				
289321	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 14W SPOT (250mA)	TEXT. BLACK				
289322	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE				
289323	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 12W SPOT (350mA)	ANODIC BROWN				
289324	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 28W SPOT (250mA)	ANODIC BROWN				
289325	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 28W SPOT (250mA)	TEXT. BLACK				
289326	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (350mA)	TEXT. WHITE				
289327	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (350mA)	ANODIC BROWN				
289328	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN				
289329	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK				
289314	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 14W SPOT (250mA)	TEXT. WHITE				
289315	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 14W SPOT (250mA)	ANODIC BROWN				
289316	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 12W SPOT (350mA)	TEXT. BLACK				
289317	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 12W SPOT (350mA)	TEXT. WHITE				
289318	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 24W SPOT (700mA)	ANODIC BROWN				
289319	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 24W SPOT (700mA)	TEXT. BLACK				

289350	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN				
289351	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. BLACK				
289352	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE				
289353	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	ANODIC BROWN				
289354	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	ANODIC BROWN				
289355	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 28W SPOT (250mA) 1-10V DIMM	TEXT. BLACK				
289356	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	TEXT. WHITE				
289357	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (350mA) 1-10V DIMM	ANODIC BROWN				
289358	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN				
289359	RINGO 835 SUSPENSION BASE CI 48W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK				
289344	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	TEXT. WHITE				
289345	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 14W SPOT (250mA) 1-10V DIMM	ANODIC BROWN				
289346	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. BLACK				
289347	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 12W SPOT (350mA) 1-10V DIMM	TEXT. WHITE				
289348	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	ANODIC BROWN				
289349	RINGO 835 SUSPENSION BASE CI 71W LEDLINE + 24W SPOT (700mA) 1-10V DIMM	TEXT. BLACK				