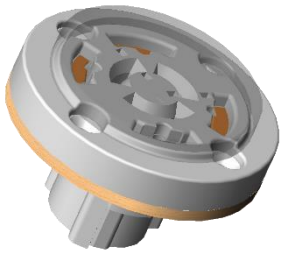
7 Pin NEMA Socket

CEV3010



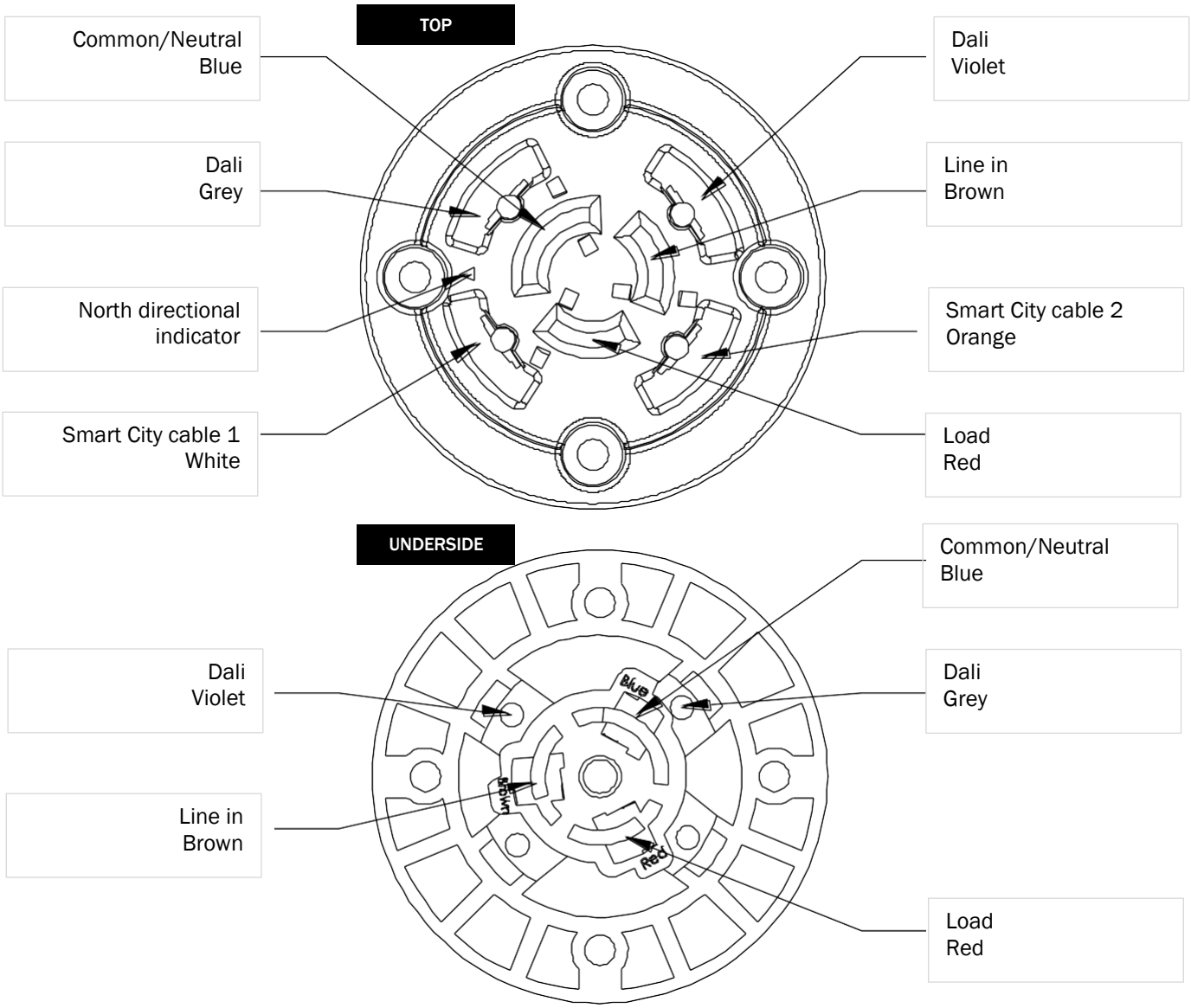
Introduction

The Charles Endirect 7 pin NEMA socket has been designed to meet the requirements of BS5792 and ANSI C136.41-2013. It also conforms to relevant EU and UK directives regarding health, safety, and environmental protection.

The 7 pin NEMA socket meets IP2X standards, this means it has protections against approach by fingers and cannot be penetrated by a solid object of 12mm or more in diameter. The socket has 4 no, dimming contacts to allow Digital Addressable Lighting (DALI) or 0-10 VDC.

The Charles Endirect 7 pin NEMA socket has been designed around the current standards that apply to NEMA photocells and CMS (Central Management System) nodes with “Smart City” requirements taken into account to make this product future-proof.

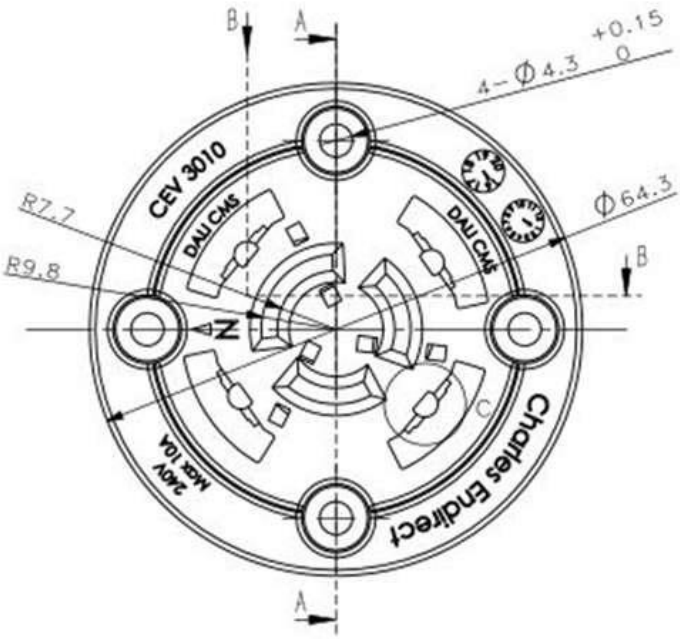
The 7 pin NEMA socket is for use in roadway and area applications and is supplied pre-wired for ease of installation and simple connection to the luminaire. It comes with a protective top cover, enabling it to be safely fitted into the luminaire prior to delivery to site, the cover shields it and safeguards it from any moisture and dust ingress. Pre-fitting the socket keeps time on site for the contractor to a minimum and means a CMS node or photocell can be quickly installed.



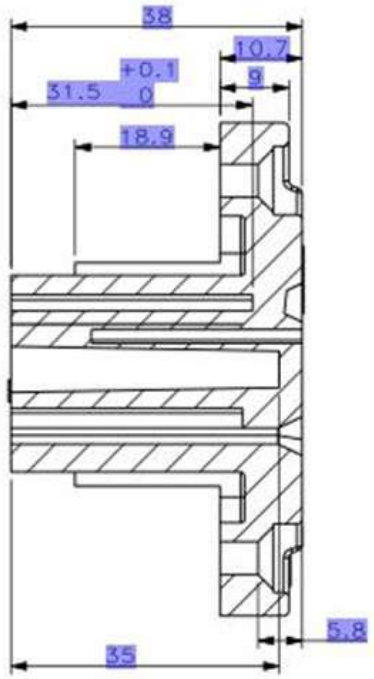
Installation

The Charles Endirect 7 pin NEMA socket comes complete with gasket and 4 point fixing holes to ensure a secure fit. To provide a water-tight seal it is recommended that the gasket is used with each installation. The 7 pin NEMA socket has 4 fixing holes which accept screws of a size and length determined by the luminaire manufacturer. No special tooling is required for the installation of this product. Please refer to the following diagrams for dimensions and wiring details.

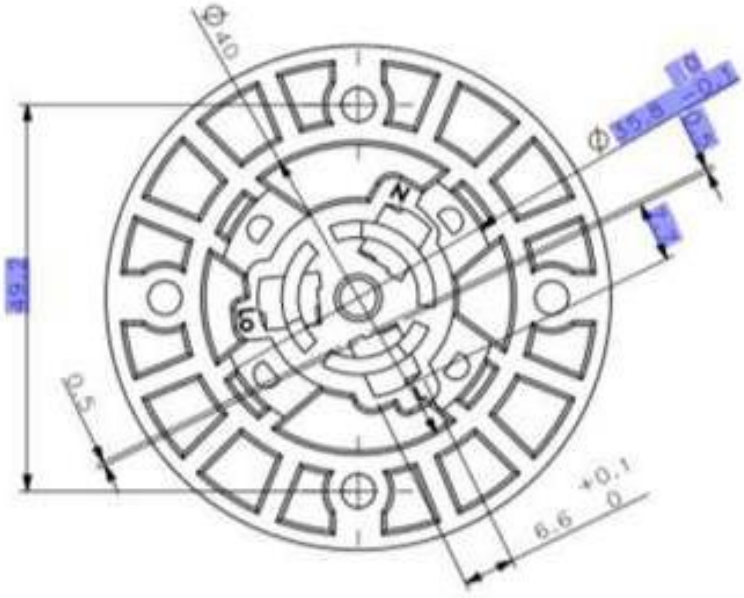
TOP



SIDE



UNDERSIDE

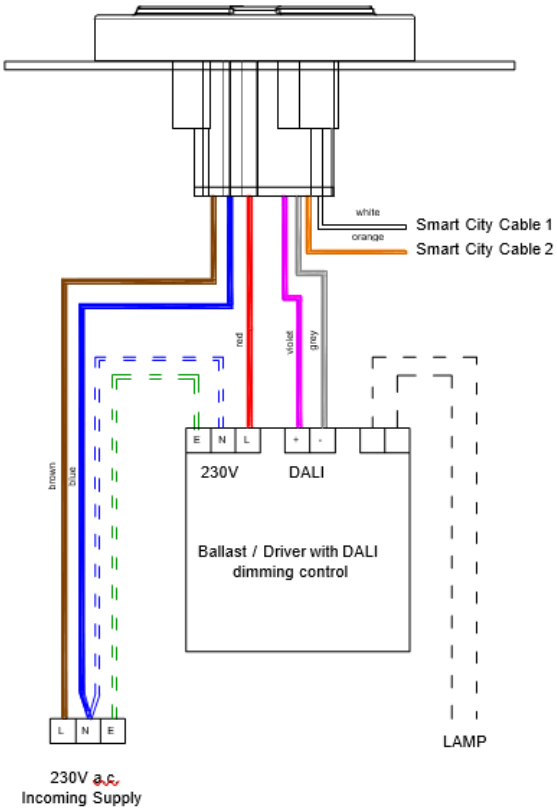


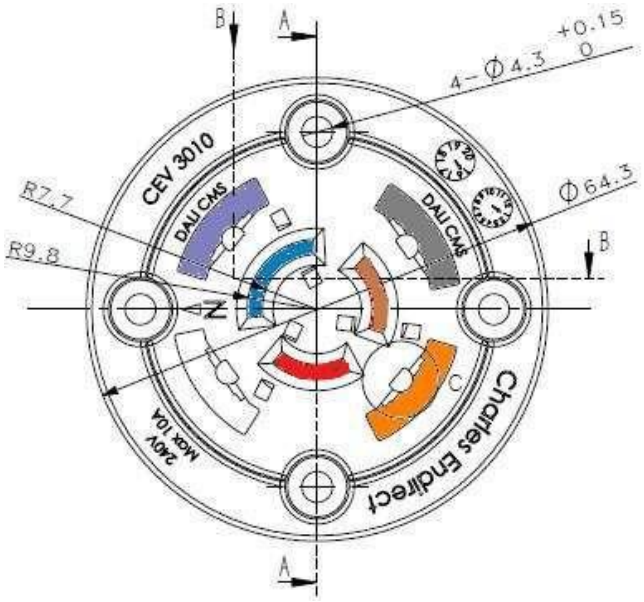
Wiring Diagram

The 7 pin NEMA socket comes complete with 500mm pre-wired tails for each terminal, see below cable specification.

Power Cables						
Designation	**Colour**	**Length (mm)**	**CSA (mm²)**	**Standard**	**Eland Cable Ref.**	**User End Preparation**
L	Brown	500	0.75	BS 6231	A2T*00075	As LCU
N	Blue	500	0.75	BS 6231	A2T*00075	As LCU
Lo	Red	500	0.75	BS 6231	A2T*00075	As LCU

Data Cables						
Designation	**Colour**	**Length (mm)**	**CSA (mm²)**	**Standard**	**Eland Cable Ref.**	**User End Preparation**
Pin 4	Violet	500	0.5	BS 6231	A2TVI0005	As LCU
Pin 5	Grey	500	0.5	BS 6231	A2TGR0005	As LCU
Pin 6	Orange	500	0.5	BS 6231	A2TOR0005	As LCU
Pin 7	White	500	0.5	BS 6231	A2TWH0005	As LCU





Connection/disconnection of a photocell or CMS node

Photocell or CMS node blades are to be aligned with dimming contacts. When correctly aligned, the photocell or CMS node then needs to be pushed downwards until it meets the contactors on the 7 pin NEMA socket and slightly compressing the gasket. To complete the connection the photocell or CMS node needs to be turned in a clockwise direction and click into place. To disconnect, reverse the process.

Compatibility:

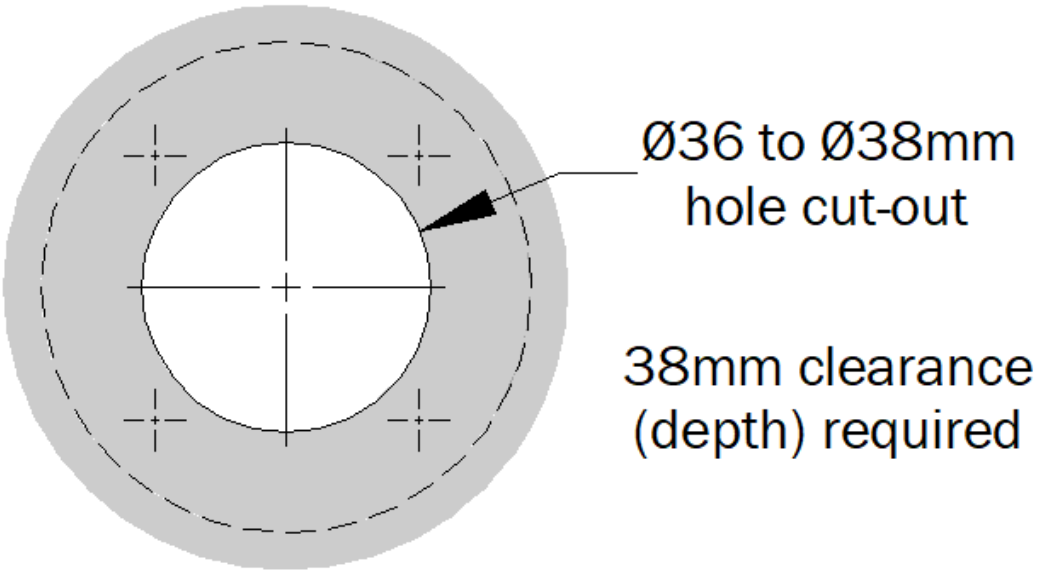
The Charles Endirect 7 pin NEMA socket is compatible with existing 3 pin NEMA products.

Suitable applications:

Outdoor lighting, road and street lighting, street furniture and sign lanterns, outdoor control and switching with NEMA photocells. Smart City switching and dimming.

Related documents: Product Data Sheet.

TEMPLATE - PRINT DOCUMENT ON A4



Charles Endirect Control Products