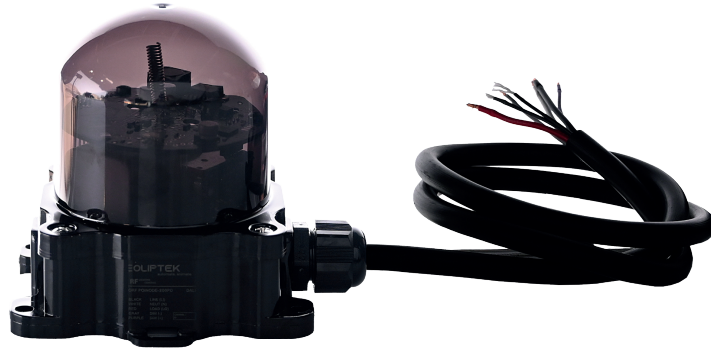


LoRaWan PWM DIMMER DATASHEET



■ What is the LoRaWAN PWM DIMMER?

It is a multi-channel PWM dimmer terminal that can control each channel separately using the LoRaWAN protocol and generate a PWM signal for each channel.

■ Application Areas

Smart city lighting, Stage lighting control, Architectural LED systems, Remote lighting automation
Application Areas

■ Technical Specifications

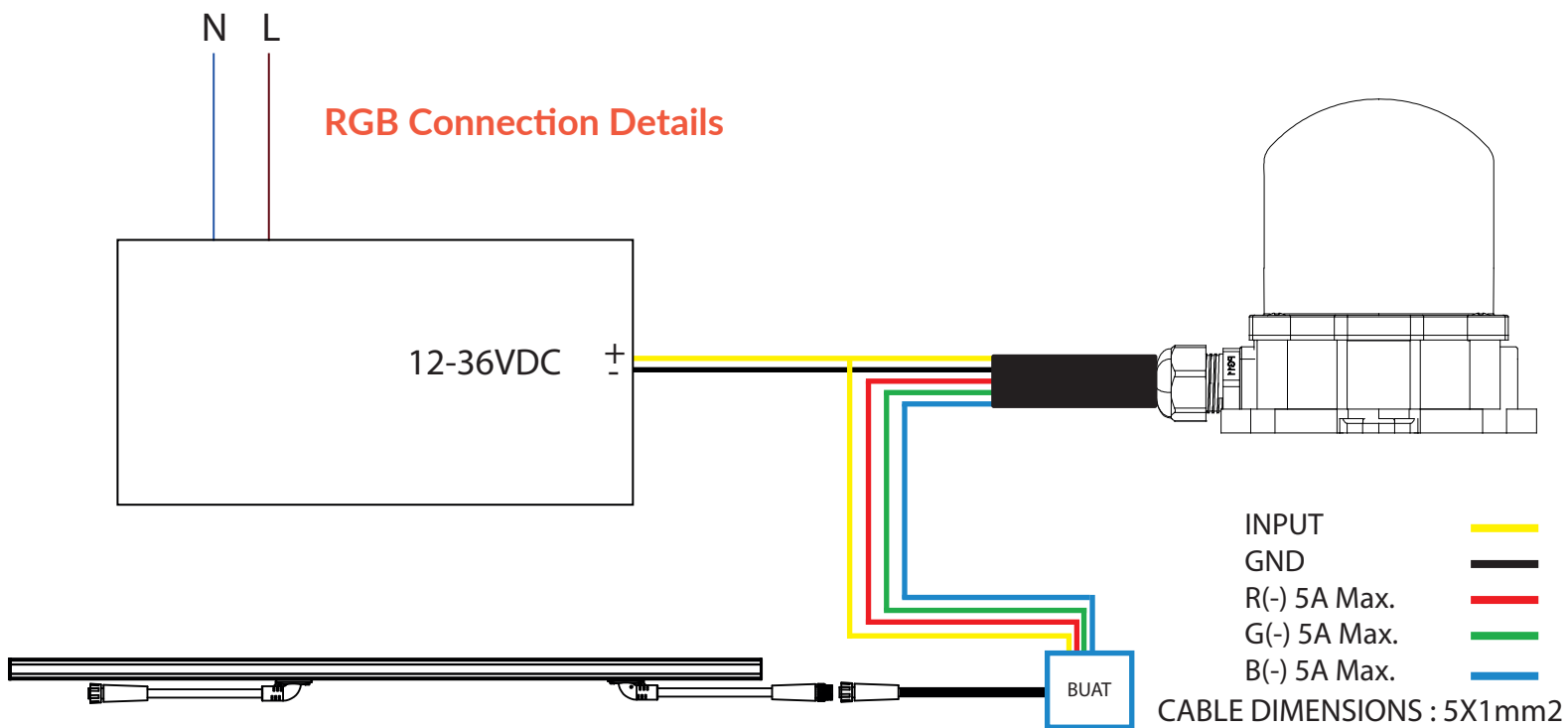
Supply Voltage:	12-36VDC	IP Class:	IP66
Input-Output Signal:	PWM	Protection Class:	Class II
LoRaWan Power Supply:	20mA	Lifespan:	50,000 h
Operating Temperature:	-20 to +55 °C	Body Material:	UV Resistant Polycarbonate
Wireless Technology:	LoRaWAN 868 Mhz	Body Color:	Black (RAL 9005)

■ Features

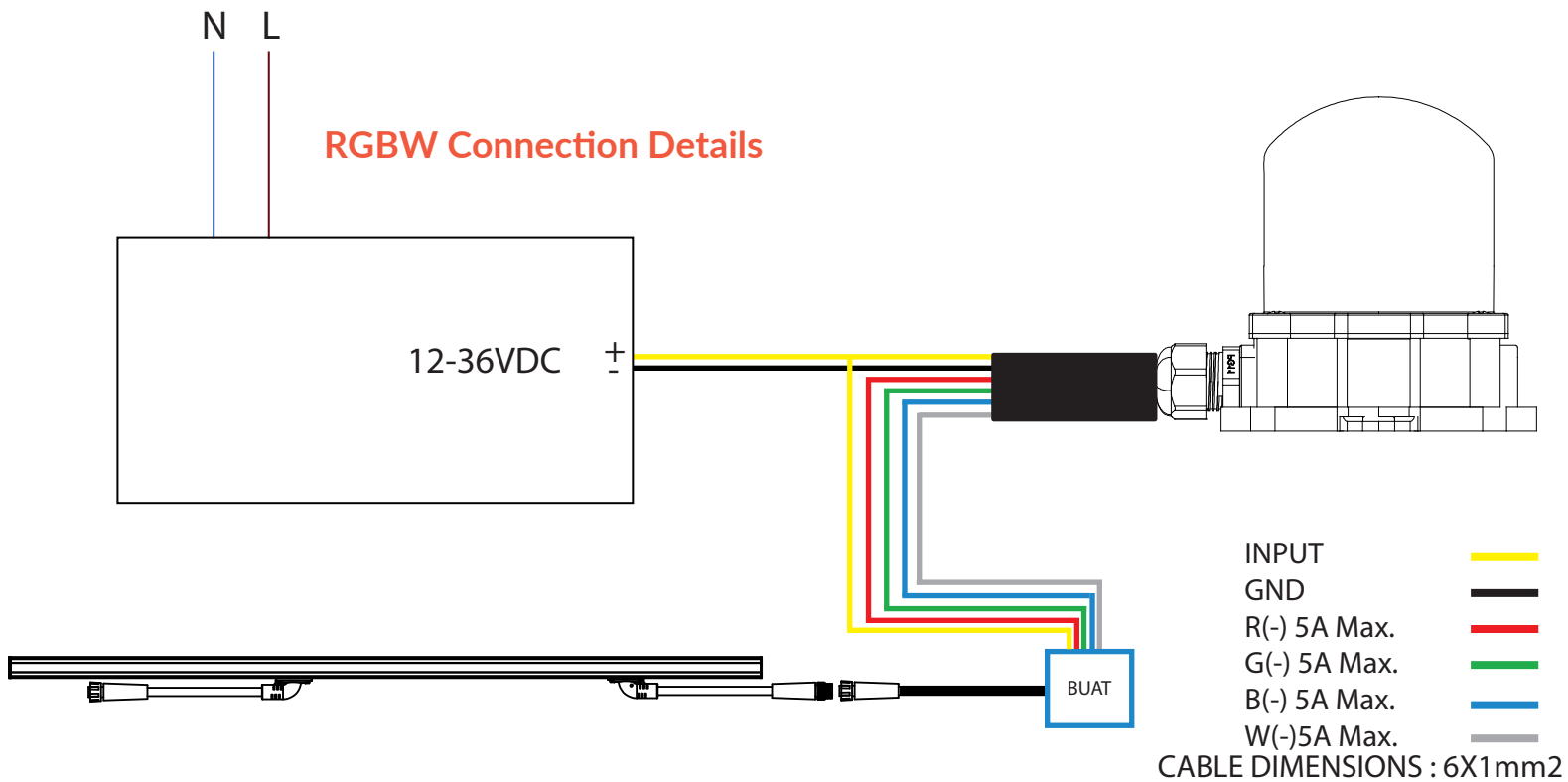
SENSOR TYPE	DESCRIPTION
RTC (Real-Time Clock)	Keeps accurate track of time independently even during network outages, ensuring that pre-programmed time-based lighting schedules are executed without interruption.
LDR (Light Dependent Resistor)	Detects ambient light levels to allow the DIMMER controller to automatically turn the streetlights on at sunset and off at sunrise.
Tilt Sensor	Monitors the physical orientation of the pole or fixture, instantly triggering an alert to the central management system if a collision, tilt, or severe structural displacement occurs.
GPS Module	Automatically detects the geographical coordinates of the DIMMER controller to report its position to the map-based central management system and ensures precise time synchronization.

■ Wiring and Connection Details

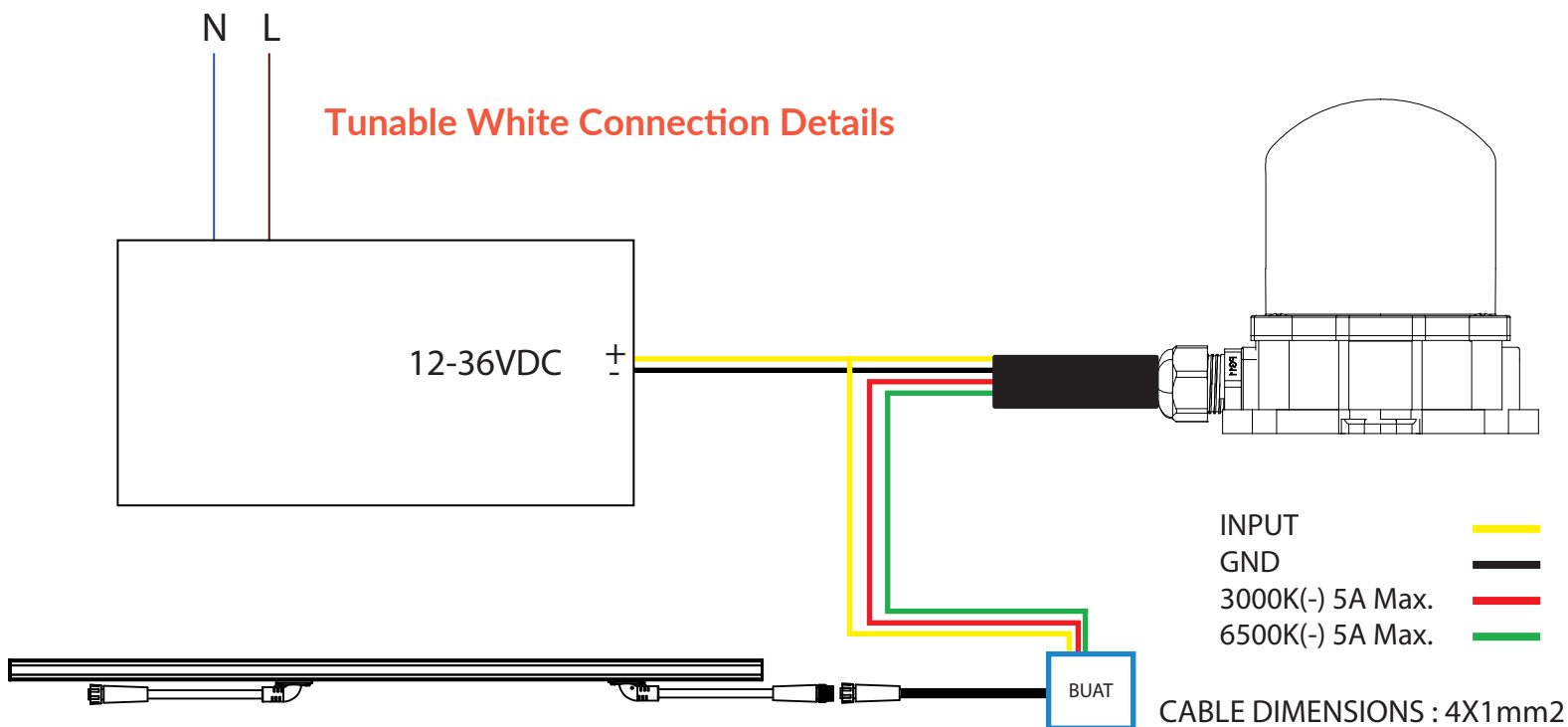
RGB Connection Details



RGBW Connection Details



■ Wiring and Connection Details



■ LoRaWan PWM DIMMER 3CH Working Principle

LoRaWAN PWM DIMMER 3CH products are controlled by the Olios application server via a network gateway.

LoRaWan PWM DIMMER
3CH



LoRaWan PWM DIMMER
3CH



Gateway



Network Server



OLIOS
LoRaWan Application Server

■ Dimensions

