



RDM CV NEO

Outdoor DMX / RDM 4 Channel LED Driver

RDM CV NEO is the world's most reliable DMX/RDM driver, specially designed for architectural applications. An intelligent dimming solution for a wide range of LED luminaires and applications designed for maximum performance in a robust and easy to install framework.

Use RDM CV NEO to interface between a remote standard DMX/RDM source and up to 8 amps constant voltage RGB or RGBW LED fittings. The luminaires, external extra-low voltage power supply and data connectors have carefully been designed for quick and easy installation process, removing the guesswork and chances of issues during installation and after project completion.





DURABLE

RDM CV NEO driver is designed to suit outdoor DMX/RDM controlled LED installations, featuring a robust housing design, suitable for inclement weather. Isolated electronics add extra protection to your luminaires.

RELIABLE

Coolon LED drivers are designed and built to the highest standards. Coolon offers high performance, reliability and efficiency supported by our 5-year warranty.



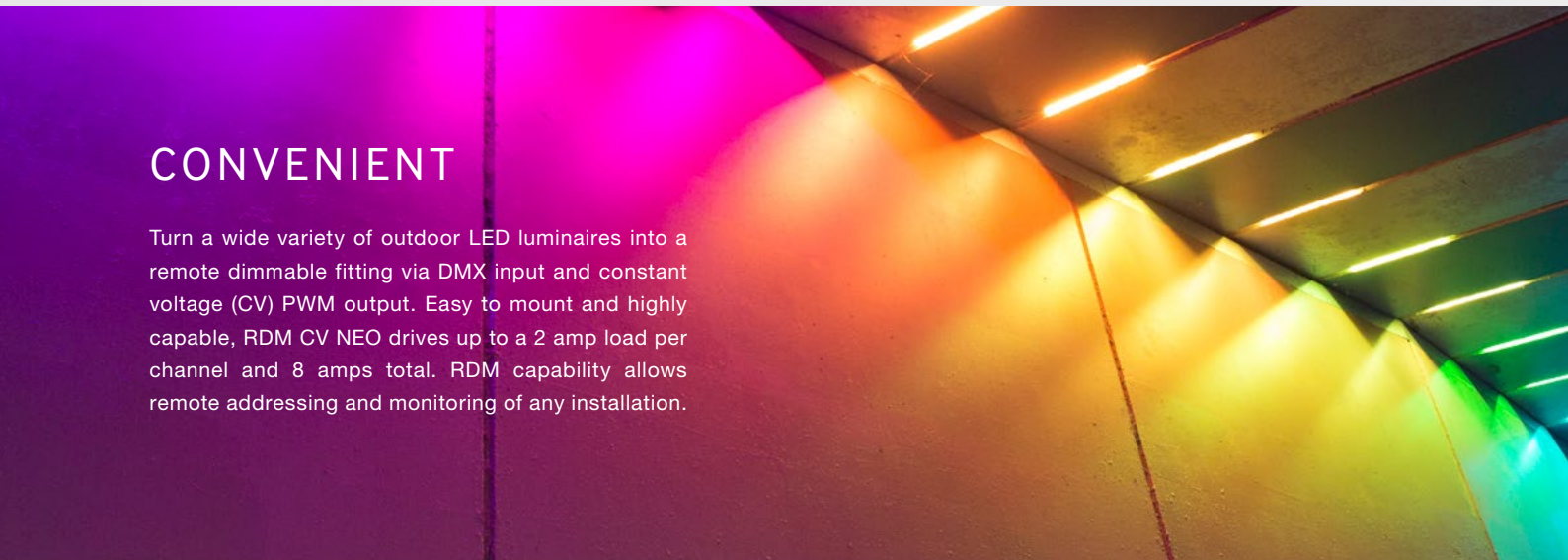
SIMPLE

Quick connectors for both DMX/RDM data and output to luminaires reduce installation time and potential points of failure.

Installation is efficient with fewer hard-wired terminations and is convenient even in tricky locations due to the quick connectors that require no tools.

CONVENIENT

Turn a wide variety of outdoor LED luminaires into a remote dimmable fitting via DMX input and constant voltage (CV) PWM output. Easy to mount and highly capable, RDM CV NEO drives up to a 2 amp load per channel and 8 amps total. RDM capability allows remote addressing and monitoring of any installation.



TECHNICAL SPECIFICATIONS

Product Code	DRV-RDM CV NEO
Description	Neo Outdoor DMX / RDM 4 Channel LED Driver
Device Type	DMX / RDM input. Open drain PWM output (suitable for constant voltage LED Luminaires)
Control Protocol	DMX512 / RDM
Solid State Output	4x MOSFET, Open drain
PWM Frequency	75 – 1950 Hz
Dimming Range	1 – 100%
Load / Supply Voltage	12 – 48VDC
Power Consumption	< 1 Watt at 24V (No Load)
Max Load Current	2 Amps per channel for OC6FO10 and OJ5 1 Amp per channel for OC6FO05
Electrical Protection	±15kV ESD protection (human body model) 30kV/µs Common Mode Transient Immunity 560V PEAK Common Mode Working Voltage
RDM Selectable Digital Processing Algorithms	Matrix White™ Digital Low Pass Filter Intelligent Power Balance
Enclosure	Polycarbonate with polyurethane encapsulation
IP Rating	IP65
Working Temperature	-10 to +40°C

APPLICATIONS

RDM CV NEO can be used to remotely drive a variety of Coolon LED luminaires, yet is also suitable for most constant voltage LED products including applications such as:

- Architainment
- Façades
- Stadiums
- Tough Environments
- Architectural Outdoor Lighting
- Outdoor Entertainment
- Street and Outdoor Lighting
- Commercial Outdoor Lighting
- RGB and RGBW installations
- Theme Parks

FEATURES



Fully protected against dust.
Protected against water jets from all directions.

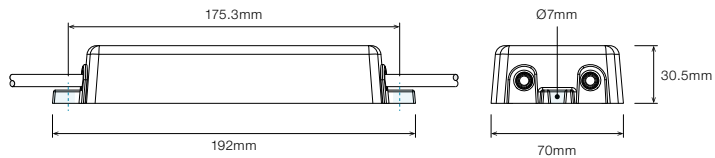


Coolon drivers are covered by a solid comprehensive 5-year manufacturer's warranty.

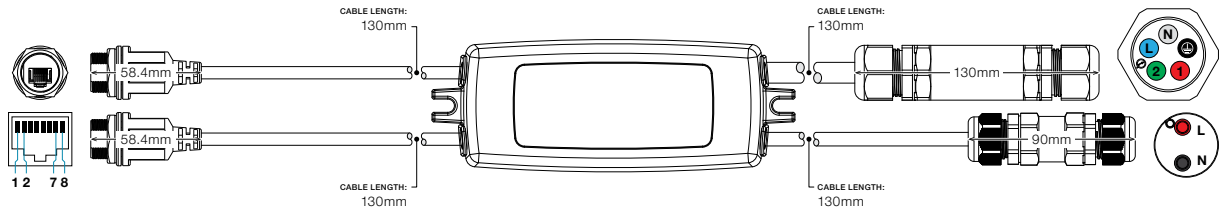


Our products are designed and manufactured in Australia to ensure the highest standards.

VARIANTS



DRV - RDM CV NEO - RJ45F - OJ5 - IP65



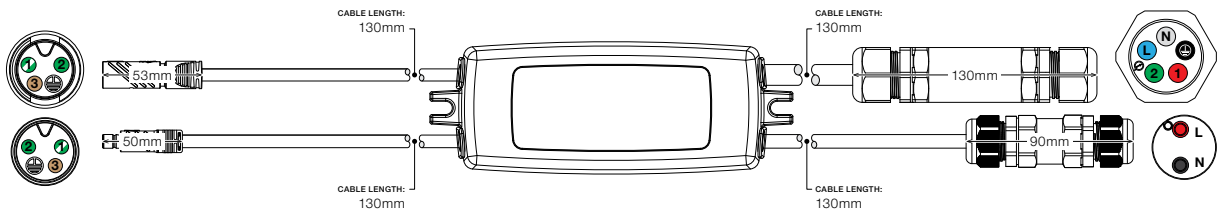
RJ45F • CAT5 Ethernet Female Connector

- 1 DMX + 2 DMX -
- 7 Common 8 Common

OJ5 • Outdoor Joiner 5 Pin

- Ⓛ CH3 Ⓝ CH4 Ⓧ Common
- Ⓡ CH1 Ⓢ CH2

DRV - RDM CV NEO - OC3MF - OJ5 - IP65



OC3MF • Connector 3 pin Male + Female

- Ⓡ DMX + Ⓢ DMX - Ⓧ Common

OJ5 • Outdoor Joiner 5 Pin

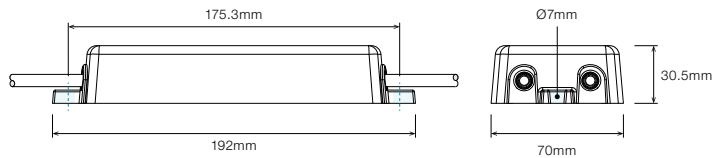
- Ⓛ CH3 Ⓝ CH4 Ⓧ Common
- Ⓡ CH1 Ⓢ CH2

OJ5 VARIANTS COMPATIBILITY

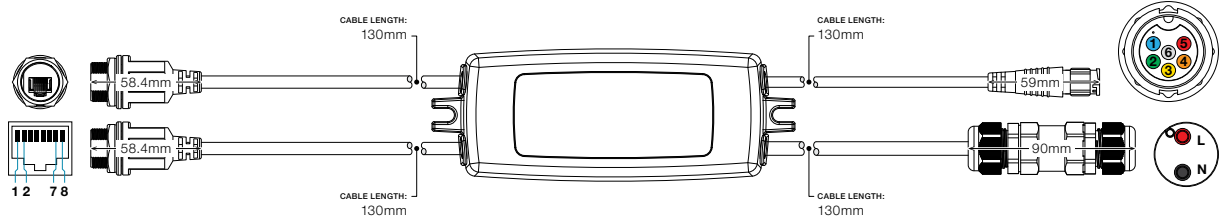
OJ5 Variants of RDM CV NEO can be used to add DMX/RDM control to the following Coolon LED luminaires, yet is also suitable for most constant voltage third-party LED products.

- | | | |
|------------|-----------------|---------------|
| • Alto | • Alto CL | • Aris UG |
| • Electro | • Forma | • Interra |
| • Latitude | • Max Mini RGBW | • Max Mini UG |
| • Multo | • Multo CC | • Slim |
| • Spectrum | | |

■ VARIANTS



DRV - RDM CV NEO - RJ45F - OC6FO05 - IP65



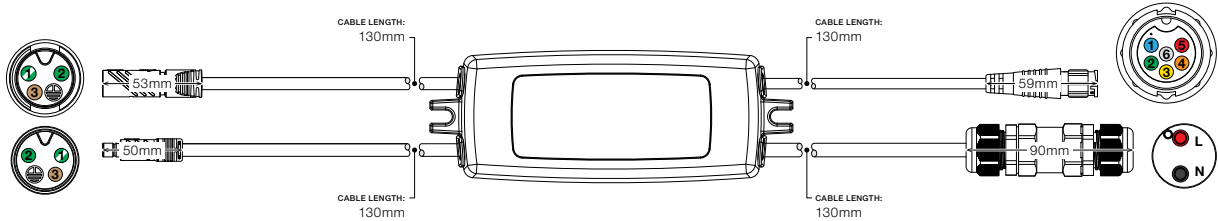
RJ45F - CAT5 Ethernet Female Connector

- 1 DMX +
- 2 DMX -
- 7 Common
- 8 Common

OC6FO05 - Outdoor Connector 6 Pin Female Only 5 Amps

- 1 CH3
- 2 CH2
- 3 Common
- 4 Common
- 5 CH1
- 6 CH4

DRV - RDM CV NEO - OC3MF - OC6FO05 - IP65



OC3MF - Connector 3 pin Male + Female

- 1 DMX +
- 2 DMX -
- 3 Common

OC6FO05 - Outdoor Connector 6 Pin Female Only 5 Amps

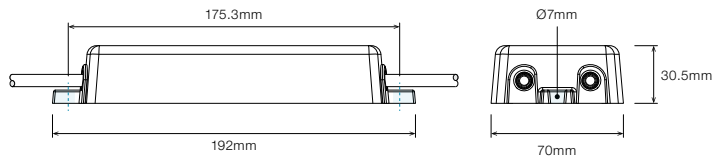
- 1 CH3
- 2 CH2
- 3 Common
- 4 Common
- 5 CH1
- 6 CH4

■ OC6FO05 VARIANTS COMPATIBILITY

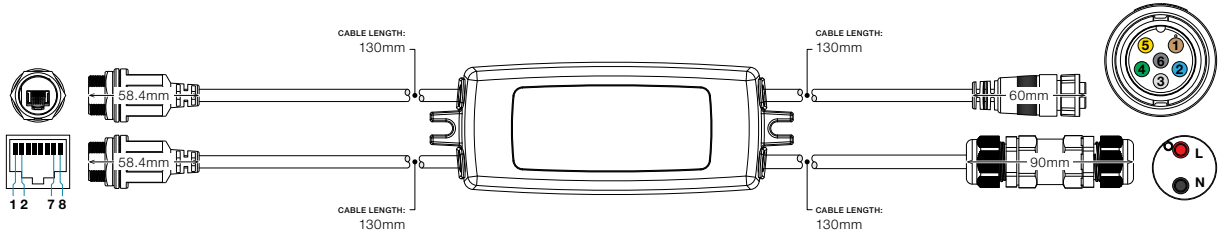
OC6FO05 Variants of RDM CV NEO can be used to add DMX/RDM control to the following Coolon LED luminaires.

- Max Mini RGBW

▪ VARIANTS



DRV - RDM CV NEO - RJ45F - OC6FO10 - IP65



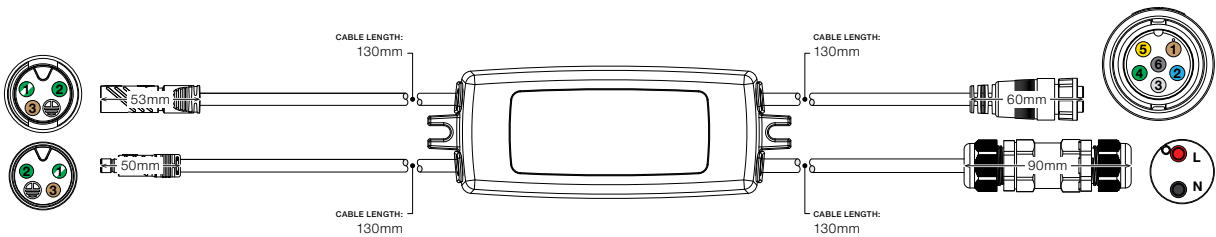
RJ45F • CAT5 Ethernet Female Connector

- 1 DMX + 2 DMX -
- 7 Common 8 Common

OC6FO10 • Outdoor Connector 6 Pin Female Only 10 Amps

- ① CH1 ② CH3 ③ CH4
- ④ CH2 ⑤ Common ⑥ Common

DRV - RDM CV NEO - OC3MF - OC6FO10 - IP65



OC3MF • Connector 3 pin Male + Female

- ① DMX + ② DMX - ③ Common

OC6FO10 • Outdoor Connector 6 Pin Female Only 10 Amps

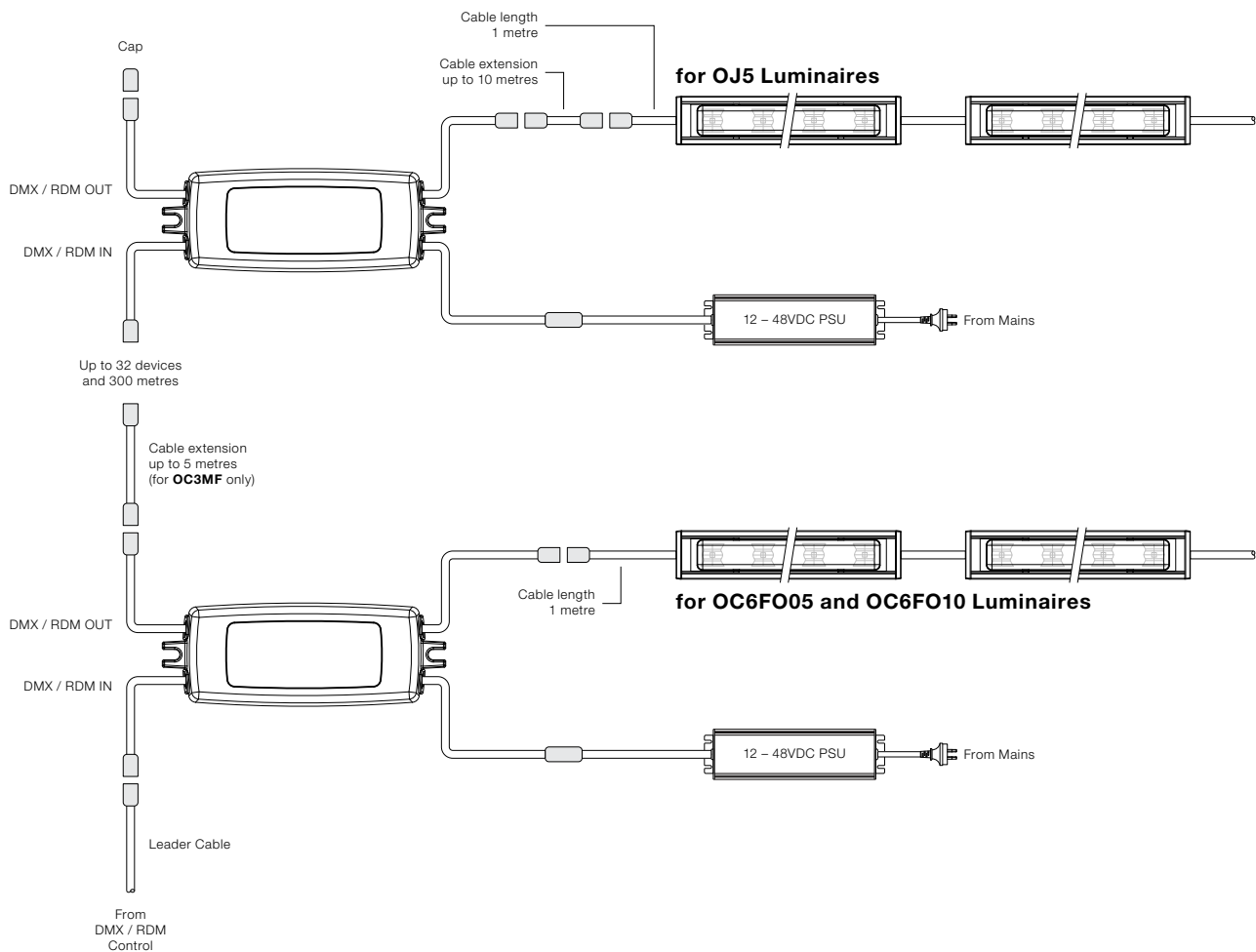
- ① CH1 ② CH3 ③ CH4
- ④ CH2 ⑤ Common ⑥ Common

▪ OC6FO10
VARIANTS
COMPATIBILITY

OC6FO10 Variants of RDM CV NEO can be used to add DMX/RDM control to the following Coolon LED luminaires.

- Latitude

■ WIRING DIAGRAM



■ ORDERING EXAMPLE

DRV - RDM CV NEO - RJ45F - OC6FO10 - IP65



■ DATA WIRING CONFIGURATION

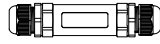
RJ45F	CAT5 Ethernet Female Connector
OC3MF	Connector 3 pin Male + Female

■ OUTPUT WIRING CONFIGURATION

OJ5	Outdoor Joiner 5 Pin
OC6FO05	Outdoor Connector 6 Pin Female, 5Amps
OC6FO10	Outdoor Connector 6 Pin Female, 10Amps

■ ACCESSORIES

CABLE EXTENSION



CBLEXT-PRJ-WR5-IP65-3M	3m Length, 5 Core Cable Extension with Outdoor Joiner, IP68 when mated
CBLEXT-PRJ-WR5-IP65-5M	5m Length, 5 Core Cable Extension with Outdoor Joiner, IP68 when mated
CBLEXT-PRJ-WR5-IP65-10M	10m Length, 5 Core Cable Extension with Outdoor Joiner, IP68 when mated
CBLEXT-DATA-OC3MF-IP68-5M	5m Length, 3 Core Cable Male to Female Extension with HS-Lock Quick Connectors and Twisted Pair for DATA Lines, IP68 when mated
CBLEXT-DATA-OC3FO-IP68-0.25M	0.25m Length, 3 Core Cable Female Only Leader with HS-Lock Quick Connectors and Twisted Pair for DATA Lines, IP68 when mated