# OSRAM LED Modules and OPTOTRONIC Control Gear - LINEAR LED's (LINEARlight)

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | Linearlight LM01A | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Available Module Colours | | White (W1) | White (W2) | White (W3-865 / 854 / 847) | White (W3-733) | S.Red | Red | Orange | Yellow | Green | Blue |
| Module | Wattage (W) | 3.2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Length (mm) | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 448 | 448 |
| | Lumens (lm) | 29 | 57 | 89 | 68 | 54 | 86 | 98 | 69 | 57 | 10 |
| Sub-Module | Wattage (W) | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | Length (mm) | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| | Lumens (lm) | 4 | 7 | 11 | 9 | 7 | 11 | 12 | 9 | 7 | 1 |
| Per-Meter | Wattage (W) | 7.1 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| | Lumens (lm) | 65 | 127 | 199 | 152 | 121 | 192 | 219 | 154 | 127 | 22 |
| **Optotronic Units Wattage / Voltage + UK ORC** | | | | | | | | | | | |
| **OT 6/100-120/10 CE** | whole modules | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **6W 10V** | sub modules | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| **OT612010** | length (mm) | 840 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 |
| **OT 6/200-240/10 CE** | whole modules | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **6W 10V** | sub modules | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| **OT624010** | length (mm) | 840 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 | 672 |
| **OT 10/220-240/10 L** | whole modules | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| **10W 10V** | sub modules | 25 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| **OT1010L** | length (mm) | 1400 | 1120 | 1120 | 1120 | 1120 | 1120 | 1120 | 1120 | 1120 | 1120 |
| **OT 12/230-240/10** | whole modules | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **12W 10V** | sub modules | 30 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| **OT1210** | length (mm) | 1680 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 |
| **OT 12/220-240/10 LE** | whole modules | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **12W 10V** | sub modules | 30 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| **OT1210LE** | length (mm) | 1680 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 | 1344 |
| **OT 50/220-240/10** | whole modules | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| **50W 10V** | sub modules | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| **OT5010** | length (mm) | 7000 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 |
| **OT 50/120-277/10 E** | whole modules | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| **50W 10V** | sub modules | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| **OT50710E** | length (mm) | 7000 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 |
| **OT DIM** * | whole modules | 16 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| OTDIM | length (mm) | 7000 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 |
| **OT RGB 3 Channel DIM** ** | whole modules | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| See notes | sub modules | 50 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| OTRGBD | length (mm) | 2800 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 |
| **OT RGB Sequencer** ** | whole modules | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| See notes | sub modules | 50 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| OTRGBS | length (mm) | 2800 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 |
| **OT RGB DMX DIM** ** | whole modules | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| See notes | sub modules | 50 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| OTRGBDMX | length (mm) | 2800 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 | 2240 |
| **OTi DALI DIM** *** | whole modules | 16 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| OTNDADIM | length (mm) | 7000 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 | 5600 |
| Voltage / Current | | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V |
| Thermal management / heat sink | | | | | | | | | | | |

Parallel connection only

Serial connection only

No special thermal management should be needed

Some thermal management probably needed

Thermal management (heat sink) will be needed

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)

** OT RGB…. vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix

*** OTi DALI DIM - max. load 50W @ 10V, 120W @ 24V

**Application Notes:**

***Linearlight***

No more than 3 complete modules (10 for RGB) can be connected end-to-end, additional modules will require a further wired feed

***Optotronic***

Most OT powersupplies will only allow up to 10m (7m with a dimmer unit) between them and the connection to any LED modules they are powering,
Where dimmers are used, losses in the dimmers need to be considered (typically around 3W or 4W per dimmer) - this may reduce the total LED's

**NOTE:**

The main table shows; **Number of Unbroken Modules** that can run on the OT unit **OR Number of sub-modules** that can run on the OT unit

**e.g. EITHER; 2 Whole Modules OR 166 sub-modules - NOT both at the same time!**

# OSRAM LED Modules and OPTOTRONIC Control Gear - LINEAR LED's (LINEARlight Flex)

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | | Linearlight Flex | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LM10A (Top LED) | | | | | | | | LM11A (Side LED) | | | | | | LM10P |
| | Available Module Colour: | | White (W1) | White (W2) | White (W2 new) | White (W3F) | Red | Yellow | Green | Blue | White (W1) | White (W3) | Red | Yellow | Green | Blue | White Power Flex |
| | Module | Wattage (W) | 57.6 | 86.4 | 55 | 86.4 | 72 | 72 | 72 | 72 | 30 | 30 | 15 | 22.5 | 30 | 30 | 72 |
| | | Length (mm) | 8400 | 8400 | 8400 | 8400 | 8400 | 8400 | 8400 | 8400 | 4200 | 4200 | 4200 | 4200 | 4200 | 4200 | 2800 |
| | | Lumens (lm) | 540 | 1290 | 1290 | 2000 | 1620 | 1290 | 1200 | 170 | 405 | 1000 | 117 | 405 | 147 | 37 | 1500 |
| | Sub-Module | Wattage (W) | 0.96 | 1.44 | 0.92 | 1.44 | 1.2 | 1.2 | 1.2 | 1.2 | 0.4 | 0.4 | 0.2 | 0.3 | 0.4 | 0.4 | 3.6 |
| | | Length (mm) | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 56 | 56 | 56 | 56 | 56 | 56 | 140 |
| | | Lumens (lm) | 9 | 22 | 22 | 33 | 27 | 22 | 20 | 3 | 5 | 13 | 2 | 5 | 2 | 0 | 75 |
| | Per-Meter | Wattage (W) | 6.9 | 10.3 | 6.5 | 10.3 | 8.6 | 8.6 | 8.6 | 8.6 | 7.1 | 7.1 | 3.6 | 5.4 | 7.1 | 7.1 | 25.7 |
| | | Lumens (lm) | 64 | 154 | 154 | 238 | 193 | 154 | 143 | 20 | 96 | 238 | 28 | 96 | 35 | 9 | 536 |
| Optotronic Units Wattage / Voltage + UK ORC | | | | | | | | | | | | | | | | | |
| **OT 6/100-120/10 CE** | whole modules | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| **6W 10V** | sub modules | | | | | | | | | | 15 | 15 | 30 | 20 | 15 | 15 | |
| **OT612010** | length (mm) | | | | | | | | | | 840 | 840 | 1680 | 1120 | 840 | 840 | |
| **OT 6/200-240/10 CE** | whole modules | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| **6W 10V** | sub modules | | | | | | | | | | 15 | 15 | 30 | 20 | 15 | 15 | |
| **OT624010** | length (mm) | | | | | | | | | | 840 | 840 | 1680 | 1120 | 840 | 840 | |
| **OT 10/220-240/10 L** | whole modules | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| **10W 10V** | sub modules | | | | | | | | | | 25 | 25 | 50 | 33 | 25 | 25 | |
| **OT1010L** | length (mm) | | | | | | | | | | 1400 | 1400 | 2800 | 1848 | 1400 | 1400 | |
| **OT 12/230-240/10** | whole modules | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| **12W 10V** | sub modules | | | | | | | | | | 30 | 30 | 60 | 40 | 30 | 30 | |
| **OT1210** | length (mm) | | | | | | | | | | 1680 | 1680 | 3360 | 2240 | 1680 | 1680 | |
| **OT 12/220-240/10 LE** | whole modules | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| **12W 10V** | sub modules | | | | | | | | | | 30 | 30 | 60 | 40 | 30 | 30 | |
| **OT1210LE** | length (mm) | | | | | | | | | | 1680 | 1680 | 3360 | 2240 | 1680 | 1680 | |
| **OT 50/220-240/10** | whole modules | | | | | | | | | | 1 | 1 | 3 | 2 | 1 | 1 | |
| **50W 10V** | sub modules | | | | | | | | | | 125 | 125 | 250 | 166 | 125 | 125 | |
| **OT5010** | length (mm) | | | | | | | | | | 7000 | 7000 | 14000 | 9296 | 7000 | 7000 | |
| **OT 50/120-277/10 E** | whole modules | | | | | | | | | | 1 | 1 | 3 | 2 | 1 | 1 | |
| **50W 10V** | sub modules | | | | | | | | | | 125 | 125 | 250 | 166 | 125 | 125 | |
| **OT50710E** | length (mm) | | | | | | | | | | 7000 | 7000 | 14000 | 9296 | 7000 | 7000 | |
| **OT 6/100-120/24 CE** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| **6W 24V** | sub modules | 6 | 4 | 6 | 4 | 5 | 5 | 5 | 5 | | | | | | | | 1 |
| **OT612024** | length (mm) | 840 | 560 | 840 | 560 | 700 | 700 | 700 | 700 | | | | | | | | 140 |
| **OT 6/200-240/24 CE** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| **6W 24V** | sub modules | 6 | 4 | 6 | 4 | 5 | 5 | 5 | 5 | | | | | | | | 1 |
| **OT622424** | length (mm) | 840 | 560 | 840 | 560 | 700 | 700 | 700 | 700 | | | | | | | | 140 |
| **OT 8/200-240/24** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| **8W 24V** | sub modules | 8 | 5 | 8 | 5 | 6 | 6 | 6 | 6 | | | | | | | | 2 |
| **OT824E** | length (mm) | 1120 | 700 | 1120 | 700 | 840 | 840 | 840 | 840 | | | | | | | | 280 |
| **OT 20/120-240/24 S** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| **20W 24V** | sub modules | 20 | 13 | 21 | 13 | 16 | 16 | 16 | 16 | | | | | | | | 5 |
| **OT224S** | length (mm) | 2800 | 1820 | 2940 | 1820 | 2240 | 2240 | 2240 | 2240 | | | | | | | | 700 |
| **OT 75/220-240/24** | whole modules | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | | | | | | | | 1 |
| **75W 24V** | sub modules | 78 | 52 | 81 | 52 | 62 | 62 | 62 | 62 | | | | | | | | 20 |
| **OT7524** | length (mm) | 10920 | 7280 | 11340 | 7280 | 8680 | 8680 | 8680 | 8680 | | | | | | | | 2800 |
| **OT 75/220-240/24 E** | whole modules | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | | | | | | | | 1 |
| **75W 24V** | sub modules | 78 | 52 | 81 | 52 | 62 | 62 | 62 | 62 | | | | | | | | 20 |
| **OT7524E** | length (mm) | 10920 | 7280 | 11340 | 7280 | 8680 | 8680 | 8680 | 8680 | | | | | | | | 2800 |
| **OT DIM** * | whole modules | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | 1 |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 83 | 130 | 83 | 100 | 100 | 100 | 100 | 125 | 125 | 250 | 166 | 125 | 125 | 33 | |
| OTDIM | length (mm) | 17500 | 11620 | 18261 | 11620 | 14000 | 14000 | 14000 | 14000 | 7000 | 7000 | 14000 | 9296 | 7000 | 7000 | 4620 | |
| **OT RGB 3 Channel DIM**** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| See notes | sub modules | 50 | 33 | 52 | 33 | 40 | 40 | 40 | 40 | 50 | 50 | 100 | 66 | 50 | 50 | 13 | |
| OTRGBD | length (mm) | 7000 | 4620 | 7331 | 4620 | 5600 | 5600 | 5600 | 5600 | 2800 | 2800 | 5600 | 3696 | 2800 | 2800 | 1820 | |
| **OT RGB Sequencer**** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| See notes | sub modules | 50 | 33 | 52 | 33 | 40 | 40 | 40 | 40 | 50 | 50 | 100 | 66 | 50 | 50 | 13 | |
| OTRGBS | length (mm) | 7000 | 4620 | 7331 | 4620 | 5600 | 5600 | 5600 | 5600 | 2800 | 2800 | 5600 | 3696 | 2800 | 2800 | 1820 | |
| **OT RGB DMX DIM**** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |
| See notes | sub modules | 50 | 33 | 52 | 33 | 40 | 40 | 40 | 40 | 50 | 50 | 100 | 66 | 50 | 50 | 13 | |
| OTRGBDMX | length (mm) | 7000 | 4620 | 7331 | 4620 | 5600 | 5600 | 5600 | 5600 | 2800 | 2800 | 5600 | 3696 | 2800 | 2800 | 1820 | |
| **OTi DALI DIM***** | whole modules | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 1 | |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 83 | 130 | 83 | 100 | 100 | 100 | 100 | 125 | 125 | 250 | 166 | 125 | 125 | 33 | |
| OTNDADIM | length (mm) | 17500 | 11620 | 18327 | 11620 | 14000 | 14000 | 14000 | 14000 | 7000 | 7000 | 14000 | 9296 | 7000 | 7000 | 4620 | |
| **OT DALI 25/220-240/24 RGB** | whole modules | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| 8W per channel/ 24V | sub modules | 8 | 5 | 9 | 5 | 6 | 6 | 6 | 6 | | | | | | | | 2 |
| OTD2524 | length (mm) | 1120 | 700 | 1217 | 700 | 840 | 840 | 840 | 840 | | | | | | | | 280 |
| **OT EASY 60/220-240/24 RGB** | whole modules | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | | | | | | | | 0 |
| 60W / 24V | sub modules | 62 | 41 | 130 | 41 | 50 | 50 | 50 | 50 | | | | | | | | 16 |
| OTEASY60 | length (mm) | 8680 | 5740 | 18327 | 5740 | 7000 | 7000 | 7000 | 7000 | | | | | | | | 2240 |
| | | | | | | | | | | | | | | | | | KEY: |
| Voltage / Current | | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 10V | 10V | 10V | 10V | 10V | 10V | 24V | |
| Thermal management / heat sink | | | | | | | | | | | | | | | | | KEY: |

KEY: Parallel connection only; Serial connection only

KEY: No special thermal management should be needed; Some thermal management probably needed; Thermal management (heat sink) will be needed

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)
** OT RGB.... vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix
*** OTi DALI DIM - max. load 50W @ 10V, 120W @ 24V

**Application Notes:**

***LinearlightFlex***

Number of LED's per module, sub-module and max. continuous runs are: (additional lenghts will require further wired feeds)
LM10A - 600 LED's per module, 10 per sub-module, max. continuous run 4200mm (3500mm for -W2 or -W3 White)
LM11A - 300 LED's per module, 4 per sub-module, max. continuous run 2072mm (4200mm for Red)
LM10L-RGB - 200 LED's per module, 10 per sub-module, max. continuous run 4000mm
POWER Flex - 120 LED's per module, 6 per sub-module, max. continuous run 1400mm

***Optotronic***

Most OT powersupplies will only allow up to 10m (7m with a dimmer unit) between them and the connection to any LED modules they are powering,
Where dimmers are used, losses in the dimmers need to be considered (typically around 3W or 4W per dimmer) - this may reduce the total LED's

**NOTE:**
The main table shows; **Number of Unbroken Modules** that can run on the OT unit **OR Number of sub-modules** that can run on the OT unit
**e.g. EITHER; 2 Whole Modules OR 166 sub-modules - NOT both at the same time!**

# OSRAM LED Modules and OPTOTRONIC Control Gear - COLOURMIX LED's

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | LINEARlight LM01M Colourmix | | | | LINEARlight Flex LM10L-RGB Colourmix | | | | LINEARlight Flex LM10L-RGB2 Colourmix | | | | LINEARlight Flex LM10L-RGB2 (new) Colourmix | | | | DRAGONchain Colormix DC24A Colourmix | | | | COIN light RGB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Available Module Colours | | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | R+G+B |
| Module | Wattage (W) | 1.8 | 3.6 | 2.88 | 8.28 | 12 | 24 | 19.2 | 55.2 | 12.1 | 24 | 14.4 | 50.5 | 8.4 | 24 | 8.4 | 40.8 | 9.6 | 15.1 | 4.8 | 29.5 | 1.6 |
| | Length (mm) | 450 | 450 | 450 | 450 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 3000 | 3000 | 3000 | 3000 | |
| | Lumens (lm) | 32 | 51 | 8 | 91 | 213 | 336 | 54 | 603 | 385 | 770 | 130 | 1285 | 385 | 770 | 130 | 1285 | 285 | 505 | 55 | 845 | 30 |
| Sub-Module | Wattage (W) | 0.6 | 1.2 | 0.96 | 2.76 | 0.6 | 1.2 | 0.96 | 2.76 | 0.605 | 1.2 | 0.72 | 2.525 | 0.42 | 1.2 | 0.42 | 2.04 | | | | | |
| | Length (mm) | 150 | 150 | 150 | 150 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | | | | | |
| | Lumens (lm) | 11 | 17 | 3 | 30 | 11 | 17 | 3 | 30 | 19 | 39 | 7 | 64 | 19 | 39 | 7 | 64 | | | | | |
| Per-Meter | Wattage (W) | 4.0 | 8.0 | 6.4 | 18.4 | 3.0 | 6.0 | 4.8 | 13.8 | 3.0 | 6.0 | 3.6 | 12.6 | 2.1 | 6.0 | 2.1 | 10.2 | 3.2 | 5.0 | 1.6 | 9.8 | |
| | Lumens (lm) | 71 | 113 | 18 | 202 | 53 | 84 | 14 | 151 | 96 | 193 | 33 | 321 | 96 | 193 | 33 | 321 | 95 | 168 | 18 | 282 | |
| **Optotronic Units Wattage / Voltage + UK ORC** | | | | | | | | | | | | | | | | | | | | | | |
| **OT 6/100-120/24 CE** | whole modules | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| **6W 24V** | sub modules | 10 | 5 | 6 | 2 | 10 | 5 | 6 | 2 | 9 | 5 | 8 | 2 | 14 | 5 | 14 | 2 | | | | | |
| **OT612024** | length (mm) | 1500 | 750 | 900 | 300 | 2000 | 1000 | 1200 | 400 | 1800 | 1000 | 1600 | 400 | 2800 | 1000 | 2800 | 400 | | | | | |
| **OT 6/200-240/24 CE** | whole modules | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| **6W 24V** | sub modules | 10 | 5 | 6 | 2 | 10 | 5 | 6 | 2 | 9 | 5 | 8 | 2 | 14 | 5 | 14 | 2 | | | | | |
| **OT622424** | length (mm) | 1500 | 750 | 900 | 300 | 2000 | 1000 | 1200 | 400 | 1800 | 1000 | 1600 | 400 | 2800 | 1000 | 2800 | 400 | | | | | |
| **OT 8/200-240/24** | whole modules | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| **8W 24V** | sub modules | 13 | 6 | 8 | 2 | 13 | 6 | 8 | 2 | 13 | 6 | 11 | 3 | 19 | 6 | 19 | 3 | | | | | |
| **OT824E** | length (mm) | 1950 | 900 | 1200 | 300 | 2600 | 1200 | 1600 | 400 | 2600 | 1200 | 2200 | 600 | 3800 | 1200 | 3800 | 600 | | | | | |
| **OT 20/120-240/24 S** | whole modules | 11 | 5 | 6 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 1 | 4 | 0 | 12 |
| **20W 24V** | sub modules | 33 | 16 | 20 | 7 | 33 | 16 | 20 | 7 | 33 | 16 | 27 | 7 | 47 | 16 | 47 | 9 | | | | | |
| **OT224S** | length (mm) | 4950 | 2400 | 3000 | 1050 | 6600 | 3200 | 4000 | 1400 | 6600 | 3200 | 5400 | 1400 | 9400 | 3200 | 9400 | 1800 | | | | | |
| **OT 75/220-240/24** | whole modules | 41 | 20 | 26 | 9 | 6 | 3 | 3 | 1 | 6 | 3 | 5 | 1 | 8 | 3 | 8 | 1 | 7 | 4 | 15 | 2 | 46 |
| **75W 24V** | sub modules | 125 | 62 | 78 | 27 | 125 | 62 | 78 | 27 | 123 | 62 | 104 | 29 | 178 | 62 | 178 | 36 | | | | | |
| **OT7524** | length (mm) | 18750 | 9300 | 11700 | 4050 | 25000 | 12400 | 15600 | 5400 | 24600 | 12400 | 20800 | 5800 | 35600 | 12400 | 35600 | 7200 | | | | | |
| **OT 75/220-240/24 E** | whole modules | 41 | 20 | 26 | 9 | 6 | 3 | 3 | 1 | 6 | 3 | 5 | 1 | 8 | 3 | 8 | 1 | 7 | 4 | 15 | 2 | 46 |
| **75W 24V** | sub modules | 125 | 62 | 78 | 27 | 125 | 62 | 78 | 27 | 123 | 62 | 104 | 29 | 178 | 62 | 178 | 36 | | | | | |
| **OT7524E** | length (mm) | 18750 | 9300 | 11700 | 4050 | 25000 | 12400 | 15600 | 5400 | 24600 | 12400 | 20800 | 5800 | 35600 | 12400 | 35600 | 7200 | | | | | |
| **OT DIM** * | whole modules | 66 | 33 | 41 | | 10 | 5 | 6 | | 9 | 5 | 8 | | 14 | 5 | 14 | | 12 | 7 | 25 | | |
| 50W @ 10V or 120W @ 24V | sub modules | 200 | 100 | 125 | | 200 | 100 | 125 | | 198 | 100 | 166 | | 285 | 100 | 285 | | | | | | |
| OTDIM | length (mm) | 30000 | 15000 | 18750 | | 40000 | 20000 | 25000 | | 39600 | 20000 | 33200 | | 57000 | 20000 | 57000 | | 36000 | 21000 | 75000 | | |
| **OT RGB 3 Channel DIM** ** | whole modules | | | | 13 | | | | 2 | | | | 2 | | | | 2 | | | | 3 | 80 |
| See notes | sub modules | | | | 40 | | | | 40 | | | | 40 | | | | 40 | | | | | |
| OTRGBD | length (mm) | | | | 6000 | | | | 8000 | | | | 8000 | | | | 8000 | | | | 9000 | |
| **OT RGB Sequencer** ** | whole modules | | | | 13 | | | | 2 | | | | 2 | | | | 2 | | | | 3 | 80 |
| See notes | sub modules | | | | 40 | | | | 40 | | | | 40 | | | | 40 | | | | | |
| OTRGBS | length (mm) | | | | 6000 | | | | 8000 | | | | 8000 | | | | 8000 | | | | 9000 | |
| **OT RGB DMX DIM** ** | whole modules | | | | 13 | | | | 2 | | | | 2 | | | | 2 | | | | 3 | 80 |
| See notes | sub modules | | | | 40 | | | | 40 | | | | 40 | | | | 40 | | | | | |
| OTRGBDMX | length (mm) | | | | 6000 | | | | 8000 | | | | 8000 | | | | 8000 | | | | 9000 | |
| **OTi DALI DIM** *** | whole modules | 66 | 33 | 41 | | 10 | 5 | 6 | | 9 | 5 | 8 | | 14 | 5 | 14 | | 12 | 7 | 25 | | |
| 50W @ 10V or 120W @ 24V | sub modules | 200 | 100 | 125 | | 200 | 100 | 125 | | 198 | 100 | 166 | | 285 | 100 | 285 | | | | | | |
| OTNDADIM | length (mm) | 30000 | 15000 | 18750 | | 40000 | 20000 | 25000 | | 39600 | 20000 | 33200 | | 57000 | 20000 | 57000 | | 36000 | 21000 | 75000 | | |
| **OT DALI 25/220-240/24 RGB** | whole modules | | | | 2 | | | | 0 | | | | 0 | | | | 0 | | | | | 13 |
| 8W per channel/ 24V | sub modules | | | | 6 | | | | 6 | | | | 6 | | | | 6 | | | | | |
| OTD2524 | length (mm) | | | | 900 | | | | 1200 | | | | 1200 | | | | 1200 | | | | | |
| **OT EASY 60/220-240/24 RGB** | whole modules | | | | 7 | | | | 1 | | | | 1 | | | | 1 | | | | 2 | 37 |
| 60W / 24V | sub modules | | | | 21 | | | | 21 | | | | 23 | | | | 23 | | | | | |
| OTEASY60 | length (mm) | | | | 3150 | | | | 4200 | | | | 4600 | | | | 4600 | | | | 6000 | |
| Voltage / Current | | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V |
| Thermal management / heat sink | | | | | | | | | | | | | | | | | | | | | | |

Parallel connection only
Serial connection only

No special thermal management should be needed
Some thermal management probably needed
Thermal management (heat sink) will be needed

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)
** OT RGB…. vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix
*** OTi DALI DIM - max. load 50W @ 10V, 120W @ 24V

**Application Notes:**

***Linearlight***
No more than 3 complete modules (10 for RGB) can be connected end-to-end, additional modules will require a further wired feed

***LinearlightFlex***
Number of LED's per module, sub-module and max. continuous runs are: (additional lenghts will require further wired feeds)
LM10L-RGB - 200 LED's per module, 10 per sub-module, max. continuous run 4000mm

***Optotronic***
Most OT powersupplies will only allow up to 10m (7m with a dimmer unit) between them and the connection to any LED modules they are powering,
Where dimmers are used, losses in the dimmers need to be considered (typically around 3W or 4W per dimmer) - this may reduce the total LED's

**NOTE:**
The main table shows;**Number of Unbroken Modules**that can run on the OT unit**OR Number of sub-modules**that can run on the OT unit
**e.g. EITHER; 2 Whole Modules OR 166 sub-modules -NOT both at the same time!**

# OSRAM LED Modules and OPTOTRONIC Control Gear - BACKLIGHT + MISC. LED's

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | BACKlight | | | | | | | | | | DRAGON chain | COIN light | | EFFECTlight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LM03A | | | BL02 | | | | BL04 | | | | | | | |
| Available Module Colours | | White (W1) | White (W2) | Red S.Red Orange Yellow Green Blue | Green Blue | Red S.Red Orange Yellow | White (W2) | White (W3F) | Green Blue | White (W2) | White (W3) | White (W3) | Red Yellow | White Green Blue | Red Yellow | Green Blue |
| Module | Wattage (W) | 3.2 | 5 | 4 | 32 | 38 | 38 | 44 | 32 | 38 | 44 | 52 | 1 | 1.2 | 1.5 | 1.1 |
| | Length (mm) | | | | | | | | | | | | | | | |
| | Lumens (lm) | 29 | 69 | NA | NA | NA | 510 | 880 | NA | 510 | 880 | 1320 | | | | |
| Sub-Module | Wattage (W) | 0.4 | 0.625 | 0.5 | 0.27 | 0.317 | 0.317 | 0.37 | 0.54 | 0.64 | 0.74 | 8.7 | | | | |
| | Length (mm) | | | | | | | | | | | | | | | |
| | Lumens (lm) | 4 | 9 | NA | NA | NA | 4.25 | 7.3 | NA | 8.5 | 14.6 | 220.0 | | | | |
| Per-Meter | Wattage (W) | | | | | | | | | | | | | | | |
| | Lumens (lm) | | | | | | | | | | | | | | | |
| **Optotronic Units Wattage / Voltage + UK ORC** | | | | | | | | | | | | | | | | |
| **OT 6/100-120/10 CE** | whole modules | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| **6W 10V** | sub modules | 15 | 9 | 12 | 22 | 18 | 18 | 12 | 11 | 9 | 8 | | | | | |
| **OT612010** | length (mm) | | | | | | | | | | | | | | | |
| **OT 6/200-240/10 CE** | whole modules | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| **6W 10V** | sub modules | 15 | 9 | 12 | 22 | 18 | 18 | 12 | 11 | 9 | 8 | | | | | |
| **OT624010** | length (mm) | | | | | | | | | | | | | | | |
| **OT 10/220-240/10 L** | whole modules | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| **10W 10V** | sub modules | 25 | 16 | 20 | 37 | 30 | 30 | 27 | 18 | 15 | 13 | | | | | |
| **OT1010L** | length (mm) | | | | | | | | | | | | | | | |
| **OT 12/230-240/10** | whole modules | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| **12W 10V** | sub modules | 30 | 19 | 24 | 44 | 36 | 36 | 32 | 22 | 18 | 16 | | | | | |
| **OT1210** | length (mm) | | | | | | | | | | | | | | | |
| **OT 12/220-240/10 LE** | whole modules | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| **12W 10V** | sub modules | 30 | 19 | 24 | 44 | 36 | 36 | 32 | 22 | 18 | 16 | | | | | |
| **OT1210LE** | length (mm) | | | | | | | | | | | | | | | |
| **OT 50/220-240/10** | whole modules | 15 | 10 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| **50W 10V** | sub modules | 125 | 80 | 100 | 185 | 156 | 156 | 135 | 92 | 78 | 67 | | | | | |
| **OT5010** | length (mm) | | | | | | | | | | | | | | | |
| **OT 50/120-277/10 E** | whole modules | 15 | 10 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| **50W 10V** | sub modules | 125 | 80 | 100 | 185 | 156 | 156 | 135 | 92 | 78 | 67 | | | | | |
| **OT50710E** | length (mm) | | | | | | | | | | | | | | | |
| **OT 6/100-120/24 CE** | whole modules | | | | | | | | | | | | | 5 | 4 | 5 |
| **6W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT612024** | length (mm) | | | | | | | | | | | | | | | |
| **OT 6/200-240/24 CE** | whole modules | | | | | | | | | | | | | 5 | 4 | 5 |
| **6W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT622424** | length (mm) | | | | | | | | | | | | | | | |
| **OT 8/200-240/24** | whole modules | | | | | | | | | | | | | 6 | 5 | 7 |
| **8W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT824E** | length (mm) | | | | | | | | | | | | | | | |
| **OT 20/120-240/24 S** | whole modules | | | | | | | | | | | | | 16 | 13 | 18 |
| **20W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT224S** | length (mm) | | | | | | | | | | | | | | | |
| **OT 75/220-240/24** | whole modules | | | | | | | | | | | | | 62 | 50 | 68 |
| **75W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT7524** | length (mm) | | | | | | | | | | | | | | | |
| **OT 75/220-240/24 E** | whole modules | | | | | | | | | | | | | 62 | 50 | 68 |
| **75W 24V** | sub modules | | | | | | | | | | | | | | | |
| **OT7524E** | length (mm) | | | | | | | | | | | | | | | |
| **OT DIM** * | whole modules | 15 | 10 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 100 | 80 | 109 |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 80 | 100 | 185 | 157 | 157 | 135 | 92 | 78 | 67 | | | | | |
| OTDIM | length (mm) | | | | | | | | | | | | | | | |
| **OT RGB 3 Channel DIM** ** | whole modules | 6 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 40 | 32 | 43 |
| See notes | sub modules | 50 | 32 | 40 | 74 | 62 | 62 | 54 | 37 | 31 | 27 | | | | | |
| OTRGBD | length (mm) | | | | | | | | | | | | | | | |
| **OT RGB Sequencer** ** | whole modules | 6 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 40 | 32 | 43 |
| See notes | sub modules | 50 | 32 | 40 | 74 | 62 | 62 | 54 | 37 | 31 | 27 | | | | | |
| OTRGBS | length (mm) | | | | | | | | | | | | | | | |
| **OT RGB DMX DIM** ** | whole modules | 6 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 40 | 32 | 43 |
| See notes | sub modules | 50 | 32 | 40 | 74 | 62 | 62 | 54 | 37 | 31 | 27 | | | | | |
| OTRGBDMX | length (mm) | | | | | | | | | | | | | | | |
| **OTi DALI DIM** *** | whole modules | 15 | 10 | 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 100 | 80 | 109 |
| 50W @ 10V or 120W @ 24V | sub modules | 125 | 80 | 100 | 185 | 157 | 157 | 135 | 92 | 78 | 67 | | | | | |
| OTNDADIM | length (mm) | | | | | | | | | | | | | | | |
| **OT DALI 25/220-240/24 RGB** | whole modules | | | | | | | | | | | | | 6 | 5 | 7 |
| 8W per channel/ 24V | sub modules | | | | | | | | | | | | | | | |
| OTD2524 | length (mm) | | | | | | | | | | | | | | | |
| **OT EASY 60/220-240/24 RGB** | whole modules | | | | | | | | | | | | | 50 | 40 | 54 |
| 60W / 24V | sub modules | | | | | | | | | | | | | | | |
| OTEASY60 | length (mm) | | | | | | | | | | | | | | | |
| Voltage / Current | | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V | 10V | | | 24V | 24V | 24V |
| Thermal management / heat sink | | | | | | | | | | | | | | | | |

Parallel connection only
Serial connection only

No special thermal management should be needed
Some thermal management probably needed
Thermal management (heat sink) will be needed

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)
** OT RGB.... vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix
*** OTi DALI DIM - max. load 50W @ 10V, 120W @ 24V

**Application Notes:**

***Backlight LM03A (4 LED's per board)***
Up to 3 chains (24 boards) can be connected continuously from one feed, further boards will require additional feeds

***Backlight BL02 (2 LED's per board)***
White, Green and Blue modules can be cut after every board, Red, Super Red, Orange and Yellow can only be cut after every two boards
Up to 60 boards can be connected continuously from one feed, further boards will require additional feeds

***Backlight BL04 (4 LED's per Board)***
Up to 30 boards can be connected continuously from one feed, further boards will require additional feeds
Optotronic
Most OT powersupplies will only allow up to 10m (7m with a dimmer unit) between them and the connection to any LED modules they are powering,
Where dimmers are used, losses in the dimmers need to be considered (typically around 3W or 4W per dimmer) - this may reduce the total LED's

**NOTE:**
The main table shows; **Number of Unbroken Modules** that can run on the OT unit **OR Number of sub-modules** that can run on the OT unit
**e.g. EITHER; 2 Whole Modules OR 166 sub-modules - NOT both at the same time!**

# OSRAM LED Modules and OPTOTRONIC Control Gear - HIGH POWER LED's

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | | DRAGON | | | | | | | | | | OSTAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Puck | | Tape | | | | | Eye | | X | | Hex | |
| | | Available Module Colours | Red Yellow | White Green Blue | Red Yellow | Green Blue | White W2B & W3-733 | White W3-8xx | White W3-833 | Red Yellow | White Green Blue | White Green Blue | Red Yellow | White (W3-730) | white |
| | Module | Wattage (W) | 2.4 | 3.6 | 4.8 | 7.2 | 7.2 | 7.2 | 7.2 | 0.8 | 1.2 | 1.2 | 0.8 | 15 | 15 |
| | | Length (mm) | | | 154 | 154 | 154 | 154 | 154 | | | | | | |
| | | Lumens (lm) | | | | | 210 | 285 | 170 | | | | | 330 | 390 |
| | Sub-Module | Wattage (W) | | | 0.8 | 1.2 | 1.2 | 1.2 | 1.2 | | | | | | |
| | | Length (mm) | | | 26 | 26 | 26 | 26 | 26 | | | | | | |
| | | Lumens (lm) | | | | | 35.00 | 47.50 | 28.33 | | | | | | |
| | Per-Meter | Wattage (W) | | | 31.2 | 46.8 | 46.8 | 46.8 | 46.8 | | | | | | |
| | | Lumens (lm) | | | 0 | 0 | 1364 | 1851 | 1104 | | | | | | |
| Optotronic Units Wattage / Current + UK ORC | | | | | | | | | | | | | | | |
| **OT 9/200-240/350** | | whole modules | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 6 | | |
| 9W / 350mA | | sub modules | | | 9 | 6 | 6 | 6 | 6 | | | | | | |
| OT92240 | | length (mm) | | | 234 | 156 | 156 | 156 | 156 | | | | | | |
| **OT 9/200-240/350 DIM** | | whole modules | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 6 | | |
| 9W / 350mA | | sub modules | | | 9 | 6 | 6 | 6 | 6 | | | | | | |
| | | length (mm) | | | 234 | 156 | 156 | 156 | 156 | | | | | | |
| **OT 9/100-120/350 E** | | whole modules | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 6 | | |
| 9W / 350mA | | sub modules | | | 9 | 6 | 6 | 6 | 6 | | | | | | |
| OT91120E | | length (mm) | | | 234 | 156 | 156 | 156 | 156 | | | | | | |
| **OT 9/10-24/350 DIM** | | whole modules | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 6 | 6 | 6 | 6 | | |
| 9W / 350mA | | sub modules | | | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | |
| OT9DIM | | length (mm) | | | 234 | 156 | 156 | 156 | 156 | | | | | | |
| **OT 35/200-240/700** | | whole modules | | | | | | | | | | | | 2 | 2 |
| 35W / 700mA | | sub modules | | | | | | | | | | | | | |
| OT352240 | | length (mm) | | | | | | | | | | | | 2 | 2 |
| **OT 18/200-240/700DIM** | | whole modules | 3 | 2 | 1 | 1 | 1 | 1 | 1 | 9 | 6 | 6 | 9 | 1 | 1 |
| 18W / 700mA (+350mA) | | sub modules | | | 9 | 6 | 6 | 6 | 6 | | | | | | |
| OT18DIM | | length (mm) | | | | | | | | | | | | | |
| Voltage / Current | | | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 350mA | 700mA | 700mA |
| Thermal management / heat sink | | | | | | | | | | | | | | | |

No special thermal management should be n
Some thermal management probably neede
Thermal management (heat sink) will be nee

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)
** OT RGB…. vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix
*** OTi DALI DIM - max. load 50W @ 10V, 120W @ 24V

**Application Notes:**
***Optotronic***
Most OT powersupplies will only allow up to 10m (7m with a dimmer unit) between them and the connection to any LED modules they are powering,
Where dimmers are used, losses in the dimmers need to be considered (typically around 3W or 4W per dimmer) - this may reduce the total LED's

**NOTE:**
The main table shows; **Number of Unbroken Modules** that can run on the OT unit **OR Number of sub-modules** that can run on the OT unit
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# OSRAM LED Modules and OPTOTRONIC Control Gear - HIGH POWER LED's

## COMPATABILITY AND NUMBER OF WHOLE MODULES OR SUB-MODULES OR MAXIMUM LENGTH THAT CAN BE OPERATED ON EACH OPTOTRONIC

| LED Modules | | LINEARlight DRAGON | | LINEARlight DRAGON Colormix | | | | | | | | COINlight OSTAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | PCB | Luminaire | PCB | | | | Luminaire | | | | |
| Available Module Colours | | White (W3-8xx) | White (W3-8xx) | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | Red LED's of module | Green LED's of module | Blue LED's of module | R+G+B | White |
| Module | Wattage (W) | 12 | 12 | 8.5 | 11.5 | 3.6 | 23.6 | 8.5 | 11.5 | 3.6 | 23.6 | 12 |
| | Length (mm) | 300 | 307 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | |
| | Lumens (lm) | 375 | | 185 | 400 | 40 | 625 | | | | | |
| Sub-Module | Wattage (W) | | | | | | | | | | | |
| | Length (mm) | | | | | | | | | | | |
| | Lumens (lm) | | | | | | | | | | | |
| Per-Meter | Wattage (W) | 40.0 | | 14.2 | 19.2 | 6.0 | 39.3 | 14.2 | 19.2 | 6.0 | 39.3 | |
| | Lumens (lm) | 1250 | | 308 | 667 | 67 | 1042 | | | | | |
| **Optotronic Units Wattage / Voltage + UK ORC** | | | | | | | | | | | | |
| **OT 20/120-240/24 S** | whole modules | 1 | 1 | 2 | 1 | 5 | 0 | 2 | 1 | 5 | 0 | 1 |
| **20W 24V** | sub modules | | | | | | | | | | | |
| **OT224S** | length (mm) | 300 | 300 | 1200 | 600 | 3000 | 0 | 1200 | 600 | 3000 | 0 | |
| **OT 75/220-240/24** | whole modules | 6 | 6 | 8 | 6 | 20 | 3 | 8 | 6 | 20 | 3 | 6 |
| **75W 24V** | sub modules | | | | | | | | | | | |
| **OT7524** | length (mm) | 1800 | 1800 | 4800 | 3600 | 12000 | 1800 | 4800 | 3600 | 12000 | 1800 | |
| **OT 75/220-240/24 E** | whole modules | 6 | 6 | 8 | 6 | 20 | 3 | 8 | 6 | 20 | 3 | 6 |
| **75W 24V** | sub modules | | | | | | | | | | | |
| **OT7524E** | length (mm) | 1800 | 1800 | 4800 | 3600 | 12000 | 1800 | 4800 | 3600 | 12000 | 1800 | |
| **OT DIM *** | whole modules | 10 | 10 | 14 | 10 | 33 | | 14 | 10 | 33 | | 10 |
| **50W @ 10V or 120W @ 24V** | sub modules | | | | | | | | | | | |
| **OTDIM** | length (mm) | 3000 | 3000 | 8400 | 6000 | 19800 | | 8400 | 6000 | 19800 | | |
| **OT RGB 3 Channel DIM **** | whole modules | 4 | 4 | | | | 4 | | | | 4 | 4 |
| **See notes** | sub modules | | | | | | | | | | | |
| **OTRGBD** | length (mm) | 1200 | 1200 | | | | 2400 | | | | 2400 | |
| **OT RGB Sequencer **** | whole modules | 4 | 4 | | | | 4 | | | | 4 | 4 |
| **See notes** | sub modules | | | | | | | | | | | |
| **OTRGBS** | length (mm) | 1200 | 1200 | | | | 2400 | | | | 2400 | |
| **OT RGB DMX DIM **** | whole modules | 4 | 4 | | | | 4 | | | | 4 | 4 |
| **See notes** | sub modules | | | | | | | | | | | |
| **OTRGBDMX** | length (mm) | 1200 | 1200 | | | | 2400 | | | | 2400 | |
| **OTi DALI DIM ***** | whole modules | 10 | 10 | 14 | 10 | 33 | | 14 | 10 | 33 | | 10 |
| **50W @ 10V or 120W @ 24V** | sub modules | | | | | | | | | | | |
| **OTNDADIM** | length (mm) | 3000 | 3000 | 8400 | 6000 | 19800 | | 8400 | 6000 | 19800 | | |
| **OT DALI 25/220-240/24 RGB** | whole modules | | | | | | 1 | | | | 1 | |
| **8W per channel/ 24V** | sub modules | | | | | | | | | | | |
| **OTD2524** | length (mm) | | | | | | 600 | | | | 600 | |
| **OT EASY 60/220-240/24 RGB** | whole modules | 5 | 5 | | | | 2 | | | | 2 | 5 |
| **60W / 24V** | sub modules | | | | | | | | | | | |
| **OTEASY60** | length (mm) | 1500 | 1500 | | | | 1200 | | | | 1200 | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Voltage / Current | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24V | 24 V | | | |
| Thermal management / heat sink | | | | | | | | | | | | | | |

No special thermal management should be n
Some thermal management probably needed
Thermal management (heat sink) will be nee

* OT DIM Loads over 75W @ 24V require additional parallel OT 75/120-277/24 E supply (50W @ 10V, 120W @ 24V)
** OT RGB…. vaules are all PER CHANNEL (20W @ 10V, 48W @ 24V) except with RGB Colourmix
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**Application Notes:**

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