

M-HPRING EXTERNAL CONTROL



HIGH POWER RING LIGHT

Compatible with the TPL-CONTROL-1



TRANSPARENT
VERSION compatible
with Angle Changers



DIFFUSED
VERSION **not** compatible
with Angle Changers

- HIGH POWER LIGHTING
- INTERNAL Ø: **76mm**
- ROBUST MECHANICAL DESIGN
- INGRESS PROTECTION **IP67**
- ANGLE CHANGERS FLEXIBILITY
- OPTIMISED HEATSINK DESIGN FOR CONTINUOUS AND STROBING APPLICATIONS

EXTERNAL CONTROL REQUIRED



TPL-CONTROL-1

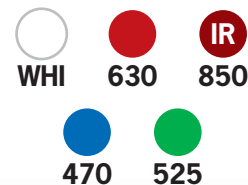
- CURRENTS OF UP TO 20A per channel
- FLEXIBILITY & SCALABILITY through modular design
- UP TO 16 CHANNELS
1 Master & 15 Slave units
- EASY CONFIGURATION via integrated website



ALUMINIUM ENCLOSURE



ANGLE CHANGERS



5 DIFFERENT COLOURS



TPL VISION IS AN **ISO 9001**
CERTIFIED MANUFACTURER.

M-HPRING EXTERNAL CONTROL



FEATURES OVERVIEW

**ROBUST, ANODIZED
ALUMINIUM HOUSING**

±5° LENS ANGLE

Add Angle Changers for diffusion and to change beam angle

**INTERNAL Ø
76 mm**



**MAGNETIC
ATTACHMENT**

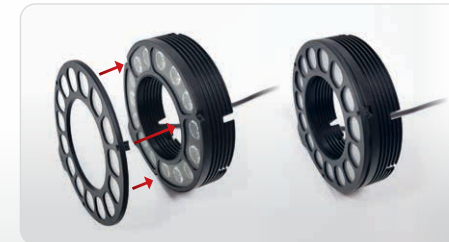
For testing **Angle
Changers** and screws
for fixing them in final
application

IP67 RATING

with **vent** to avoid
condensation.



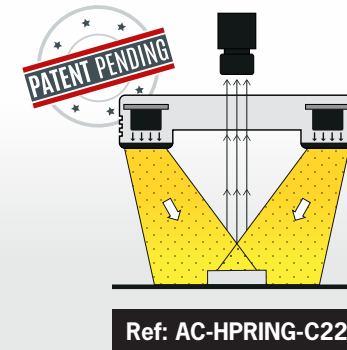
■ ANGLE CHANGERS:



**EASILY ATTACH
THE **ANGLE
CHANGER**
ACCESSORY**

- ➔ **Narrow ±10°** (Standard & Polarised)
- ➔ **Medium ±17°** (Standard & Polarised)
- ➔ **Wide ±25°** (Standard & Polarised)
- ➔ **Polariser alone**
- ➔ **Convergent light**

■ CONVERGENT LIGHT:



**REMOVE THE HALO
EFFECT !**

Modular M-HPRING
with a **Convergent**
Angle Changer.



ORDER REFERENCES

| Electronics | |
|-----------------------------|---|
| Drive Requirement | TPL-CONTROL-1-M/S or other external constant current driver |
| Internal Current Regulation | None |
| Input Type | Passive LED load / unregulated LED array |
| Nominal Forward Voltage | See user manual for colour & current specific forward voltage |
| Drive Current Range | 330 mA continuous mode, up to 6A strobe mode |
| Peak Power | Depends on peak current. Approx. peak power = Vf × Ipeak |
| Functioning Mode | Output controlled by external driver current and/or PWM/strobe signal |
| Rise and Fall Time | Determined by external controller, cable length and drive conditions |
| Wiring | LED+ / LED- |
| Protection | No internal over-current protection |
| Optics | |
| Colours | White, Red 630nm, Green 525nm, Blue 470nm & Infrared 850nm |
| Mechanical | |
| Dimensions | 145x136x28.7mm (76mm Ø internal) |
| Weight | Light: 380g |
| Materials | Aluminium (anodised), ABS, PC, Stainless Steel, Neodymium |
| Environment | |
| Operating Temperature | -10° to +40°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h) |
| Storage Temperature | -20° to +60°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h) |
| IP Protection | IP 67 |
| Information | |
| Labels | RoHS / CE / UKCA / WEEE |
| Country of Origin | Made in France |
| Tariff Number | 94054990 |

More information
www.tpl-vision.com

M-HPRING External Control:

| M-HPRING | VERSION | COLOUR | DIFFUSER OPTION |
|----------|-----------------------|-----------------------|----------------------------|
| | EC (External Control) | WHI (white) | UN-DT (transparent) |
| | | 630 (red) | NL-DO (opaque) |
| | | 525 (green) | |
| | | 470 (blue) | |
| | | 850 (infrared) | |

EXAMPLE:

- M-HPRING External Control white LEDs opaque diffuser → M-HPRING-EC-WHI-NL-DO

TPL-CONTROL-1:

| TPL-CTRL | CHANNEL | VERSION |
|----------|-----------------------|-------------------|
| | 1C (1 channel) | M (Master) |
| | | S (Slave) |

REFERENCES:

- TPL-CONTROL-1 MASTER → TPL-CTRL-1C-M
- TPL-CONTROL-1 SLAVE → TPL-CTRL-1C-S



ANGLE CHANGERS:

| AC-HPRING | ANGLE | OPTION: POLARISER |
|---|--------------------------|-------------------|
| <p>Compatible with the M-HPRING-EC-xxx-UN-DT ONLY</p> | N (narrow) | P1 |
| | M (medium) | |
| | W (wide) | |
| | C22* (convergent) | |
| | POLARISER ONLY | |
| | POL1 | |

EXAMPLES:

- Narrow → AC-HPRING-N
- Narrow with polariser → AC-HPRING-N-P1

*Polarised option does not include the Convergent Angle Changer



ADD-ON ORDER REFERENCES

SWIVEL MOUNT



Ref: SWIVEL-MOUNT-T

ACCESSORY FOR CAMERA



Ref: TPL-MOUNT-MHPRING-V1

MOUNTING BRACKET



Ref: TPL-MOUNT-LBRACKET1

CONVERTER



Gives the M-HPRING-EC the **same mounting positions** as the old HPRING.

Ref: TPL-M-HPRING-HPR-CONVERTER

C-MOUNT ADAPTOR



Ref: TPL-RMOUNT-CM

ADAPTOR M25.5



Ref: TPL-RMOUNT-M25.5

ADAPTOR M27



Ref: TPL-RMOUNT-M27

ADAPTOR M30.5



Ref: TPL-RMOUNT-M30.5

MOUNTING PLATE FOR ADAPTOR



Ref: TPL-RMOUNT-M-HPR-ADAP



Get more information:

www.tpl-vision.com