

## HIGH POWER RING LIGHT

with built-in driver technology











- **HIGH POWER LEDS**
- INTEGRATED CURRENT CONTROL
- IP RATING IP67
- **ANGLE CHANGERS**
- DIFFUSED VERSION AVAILABLE
- CONVERGENT LIGHT ATTACHMENT

VARIOUS COLOURS





















## " TPL VISION Active LED solutions

#### **FEATURES OVERVIEW**



±5° LENS ANGLE

Add Angle Changers for diffusion and to change beam angle

#### MAGNETIC ATTACHMENT

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

#### ■ ANGLE CHANGERS:



EASILY ATTACH
THE ANGLE
CHANGER
ACCESSORY

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

#### ■ POWFR SUPPLY:

#### **AUTOSTROBE**

automatic OverDrive brightness when product is strobed <10ms

#### DIMMING

on continuous mode and OverDrive mode

■ <15µS RISE TIME

#### ■ STANDARD M12 5 PINS

- 24VDC
- OC GND
- PNP NPN
- DIMMING 0-10V = 100-30%

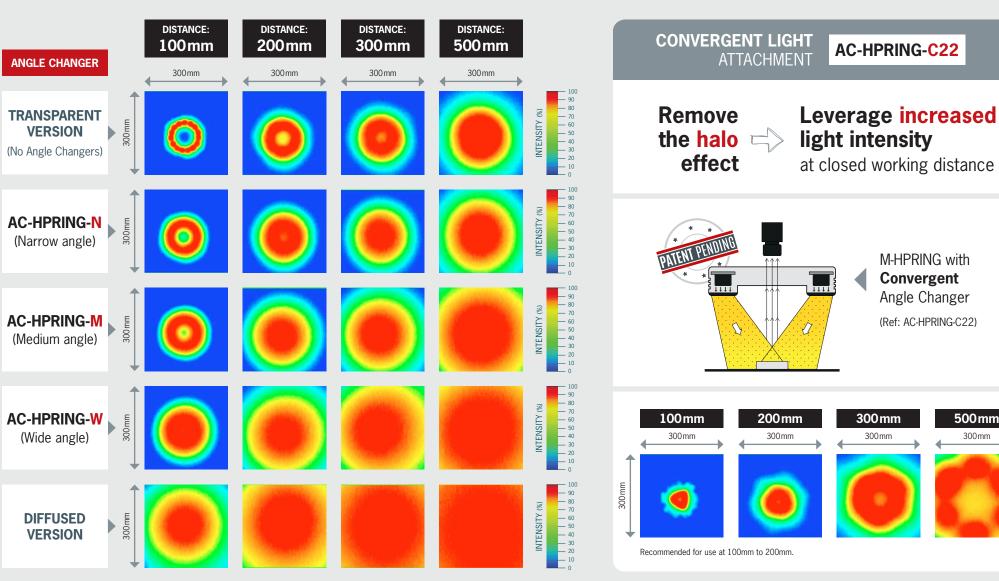




500 mm

300 mm

#### **FIELDS OF VIEW**



Polariser options available for all angle changers except converging type.

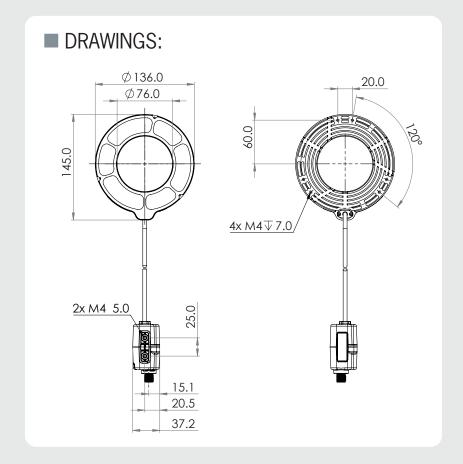


## **TECHNICAL DATA**

#### IRRADIANCE\* IN OVERDRIVE MODE (data in W/m²) DISTANCE 29 628 404 60<sub>mm</sub> 100<sub>mm</sub> 60 2260 232 200<sub>mm</sub> 217 880 21 500<sub>mm</sub> 475 70 1000<sub>mm</sub> 255 26 2 CONVERGENT AC **OPAQUE** TRANSPARENT

#### **IRRADIANCE\* IN CONTINUOUS WORKING** (data in W/m²)

DISTANCE			
60 <sub>mm</sub>	9	200	129
100 <sub>mm</sub>	19	720	74
200 <sub>mm</sub>	69	280	7
500 <sub>mm</sub>	151	22	2
1000 mm	81	8	1
	TRANSPARENT	CONVERGENT AC	OPAQUE



	External Ø (mm)	Internal Ø (mm)	Thickness (mm)		
M-HPRING	136	76	28.7		
Cable	length: 500mm				

	Length (mm)	Width (mm)	Thickness (mm)
Power supply	83.3	37.2	42.7
Connector	M12 5 pins		

<sup>\*</sup> Measured with white LED M-HPRING. Brightness reference point is in the center of the field of view.



#### **ORDER REFERENCES**

	Electronics			
Power Supply	24 VDC ±10%			
Functioning Mode	Continuous working (CW), Strobe OverDrive			
Rise and Fall Time	$15\mu s$ / $10\mu s$ , respectively			
Wiring	M12 5 Pin Connector			
Strobe Conditions	10 ms @ 20% duty cycle			
Peak Consumption (WHI) (OverDrive peak)	3.6A			
	Optics			
Colours	White, Red 630nm, Green 525nm, Blue 470nm & Infrared 850nm			
	Mechanical			
Dimensions	145x136x28.7 (76 Ø internal)			
Weight	Light: 380g / Control box: 72g			
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			



Get more information:

www.tpl-vision.com

#### ■ M-HPRING:

-	COLOUF	₹	DIFFUSER OPTION	
	WHI	(white)	UN-DT (transparen	t)
	630	(red)	NL-DO (opaque	e)
	525	(green)	EXAMPLE:	
	470	(blue)	transparent diffuser	
	850	(infrared)		
	<b> </b> -	WHI 630 525 470	630 (red) 525 (green) 470 (blue)	WHI         (white)         UN-DT (transparen           630         (red)         NL-DO (opaque           525         (green)         EXAMPLE:           470         (blue)         • Modular M-HPRING white transparent diffuser

#### ■ ANGLE CHANGERS:

AC-HPRING -	ANG	LE	- OPTION: POLARI	SER
	N	(narrow)	P1	
Compatible with the M-HPRING-xxx-UN-DT	M	(medium)	EXAMPLES:	
ONLY	W	(wide)	Narrow → AC-HPI	RING-N
	C22*	(convergent)	Narrow with polaris	
	POLARISE	R ONLY	→ AC-HPRING-N- *Polarised option does n	_
	POL	.1	include the Convergent Changer	

AC COMBO:

Ref: AC-HPRING-CO

#### ■ SWIVEL MOUNT:

#### **CONTENT:**

- x1 AC-HPRING-N
- x1 AC-HPRING-M
- x1 AC-HPRING-W
- x1 AC-HPRING-C22
- x1 AC-HPRING-POL1

Ref: SWIVEL-MOUNT-T

#### ■ MOUNTING BRACKETS:

Ref: TPL-MOUNT-M-HPRING-V1

Ref: TPL-MOUNT-LBRACKET1

Ref: TPL-M-HPRING-HPR-CONVERTER



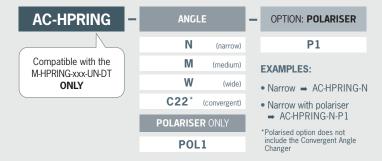
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	WHI	(white)	UN-DT (transparent)
	630	(red)	NL-DO (opaque)
	525	(green)	EXAMPLE:
	470	(blue)	Modular M-HPRING white LEDs
	850	(infrared)	transparent diffuser  → M-HPRING-WHI-UN-DT

#### ■ ANGLE CHANGERS:



#### AC COMBO:

#### Ref: **AC-HPRING-CO**

#### CONTENT:

- x1 AC-HPRING-N
- x1 AC-HPRING-M
- x1 AC-HPRING-W
- \* XI AC-III KIING-W
- x1 AC-HPRING-C22
- x1 AC-HPRING-POL1





## ADD-ON ORDER REFERENCES

# SWIVEL MOUNT Ref: SWIVEL-MOUNT-T









Get more information:

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## C-MOUNT ADAPTOR



Ref: TPL-RMOUNT-M25.5

#### **ADAPTOR M27**



Ref: TPL-RMOUNT-M27

#### ADAPTOR M30.5

**ADAPTOR M25.5** 



Ref: TPL-RMOUNT-M30.5

#### MOUNTING PLATE FOR ADAPTORS



Ref: TPL-RMOUNT-M-HPR-ADAP

