

MODULAR M30 SPOTLIGHT



INTERCHANGEABLE SPOTLIGHT for Machine Vision Applications

NEW RELEASE



- Flexible, interchangeable spotlights
- Integrated current control
- Autostrobe OverDrive
- 4µs rise time
- IP rating **IP67**
- Simple M30 mount based on proximity sensor body

ZOOM SPOTLIGHT



For general spotlight applications

BACKLIGHT SPOTLIGHT



with C-Mount lens thread

IN-LINE SPOTLIGHT



with 8mm head for in-line telecentric & macro lens

VARIOUS COLOURS:

WHI 470 525 630 850 365 385 405

BL-SPOT & IL-SPOT

Z-SPOT



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

MODULAR M30 SPOTLIGHT



MANY USE CASES IN 1 EASY TO USE SPOTLIGHT PLATFORM

ROBUST, ANODIZED
ALUMINIUM HOUSING
WITH **M30** THREAD

POWERFUL LIGHTING
ELECTRONICS EMBEDDED

with **Auto-Strobe Overdrive**,
Continuous working and **Dimming**.



IP67 RATING

with **vent** to avoid
condensation.

REMOVE TOP SECTION

to enable change of lighting type



LEARN HOW TO CONVERT THEM:



WATCH
OUR PRODUCT
DEMO HERE.

Get more information:

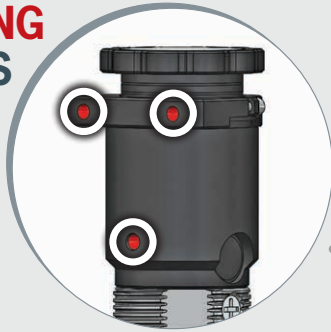
www.tpl-vision.com

MODULAR M30 SPOTLIGHT



ZOOM SPOTLIGHT CONFIGURATION

VARIOUS MOUNTING METHODS



EASY M30 MOUNTING

mount easily through any wall thickness of **1mm** up to **30mm** is suitable for placing the Z-SPOT (nuts provided).



Z-SPOT



POLARISER ACCESSORY

Reduce **glare** within your application by using a polariser*.

*Not for use with UV 405nm, 385nm and 365nm options.

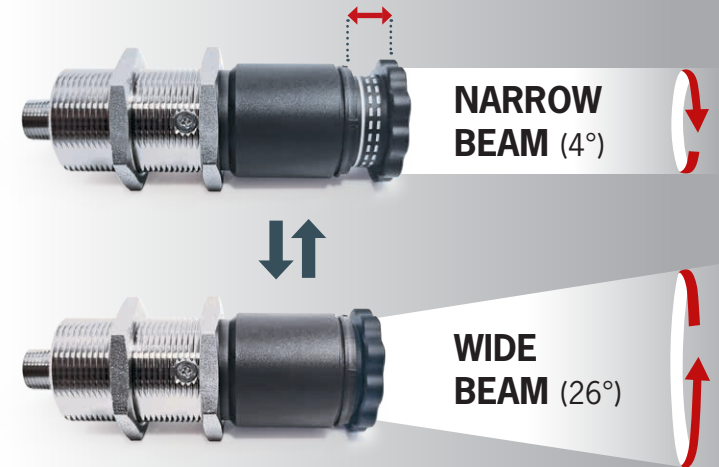


99-105 mm



LOCKING RING

The robust aluminium locking ring included with the Z-SPOT is used to **lock the zoom lens** and give the user two additional **M4 mounting holes**.



AVAILABLE IN UV
365, 385 & 405

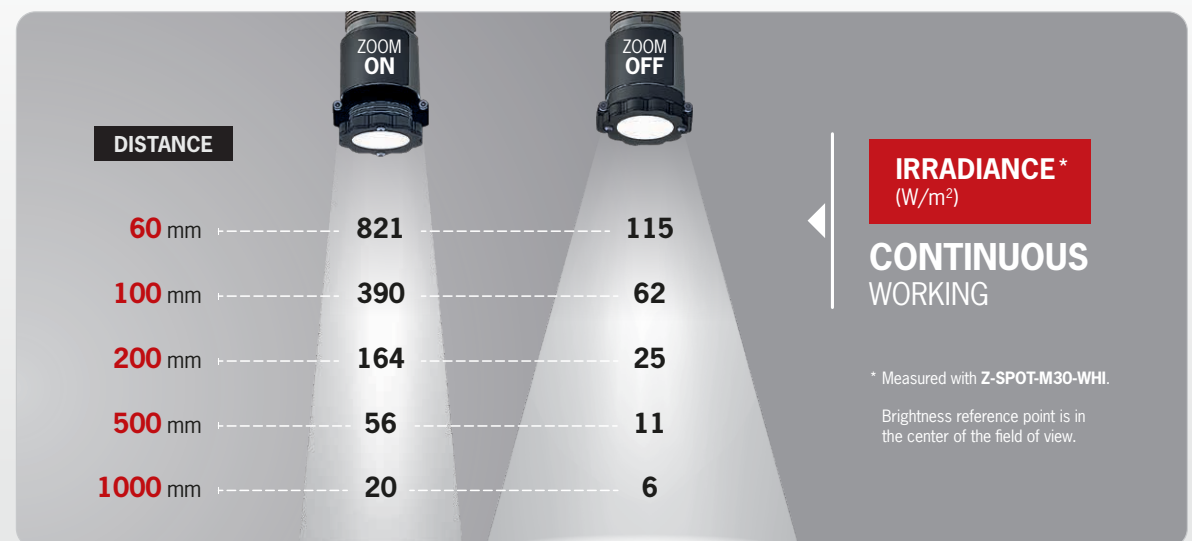
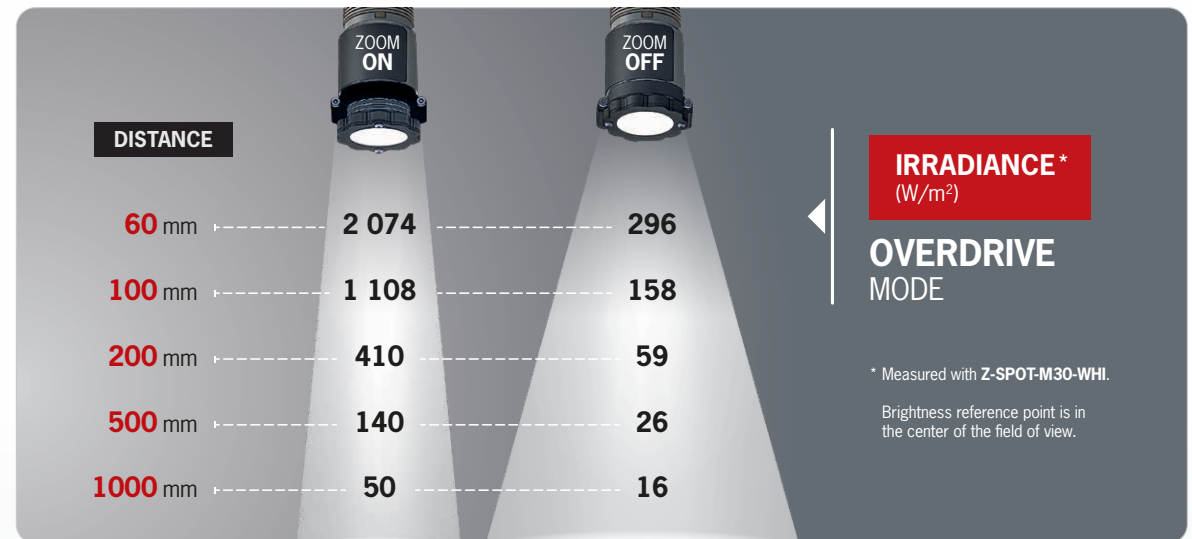
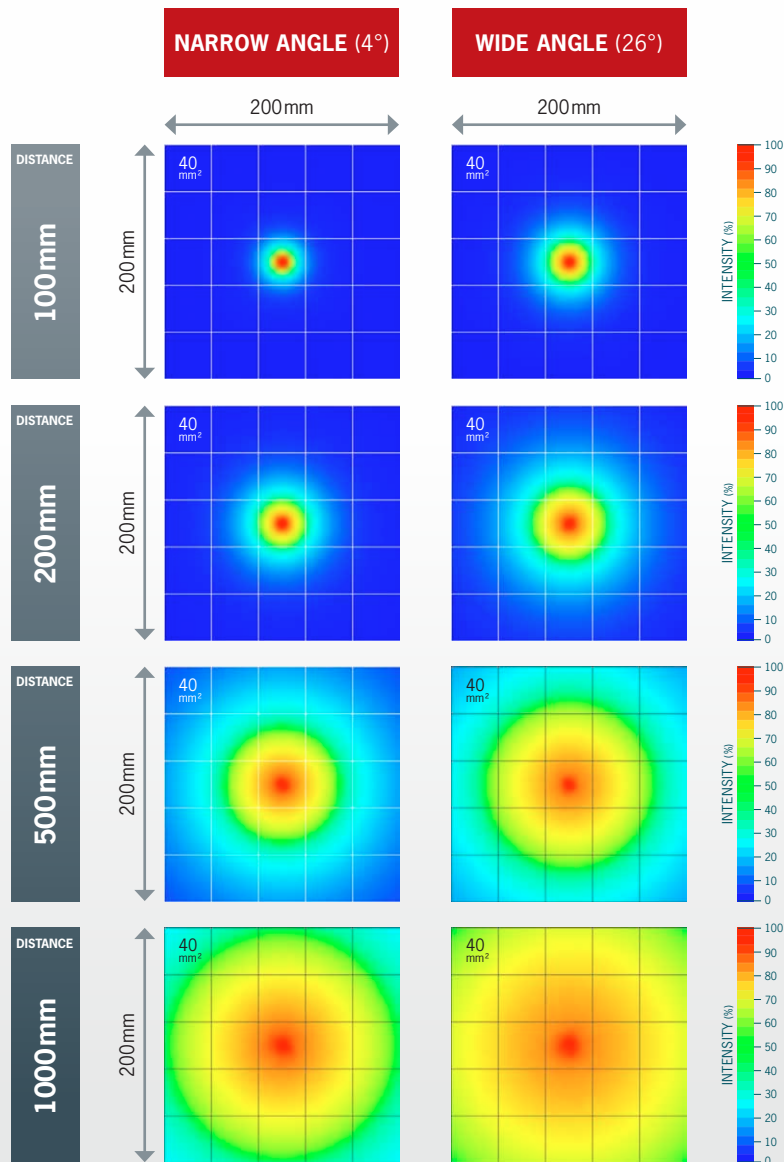


Rugged **IP67-rated** Design

MODULAR M30 SPOTLIGHT



ZOOM SPOTLIGHT LIGHTING DATA



MODULAR M30 SPOTLIGHT



IN-LINE SPOTLIGHT CONFIGURATION



IL-SPOT

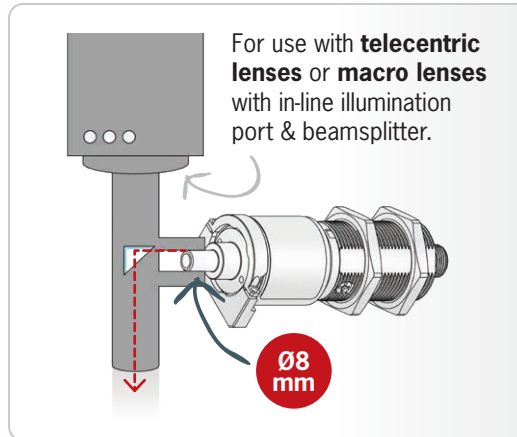
HIGH INTENSITY

concentrated light source with both **OverDrive** and **Continuous working** modes.

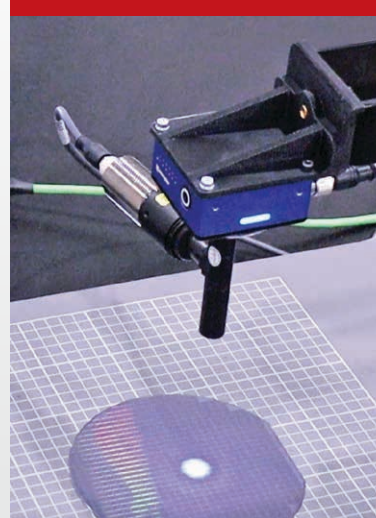
■ INTENSITY MEASUREMENTS ON THE SURFACE OF LIGHT:



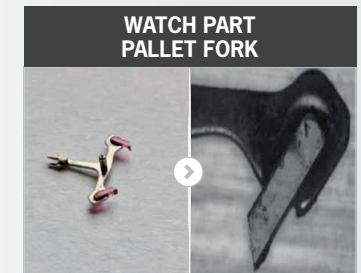
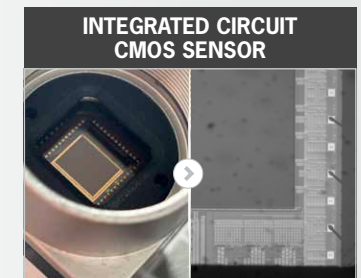
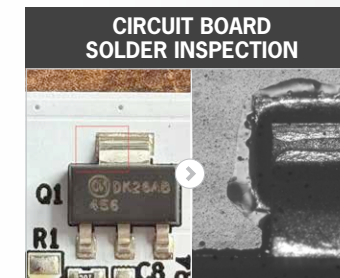
Colours	Continuous Mode	OverDrive Mode
White	550 000 Lux	1 389 403 Lux
Red	2 435 W/m ²	6 151 W/m ²
IR	1 120 W/m ²	2 829 W/m ²
Green	3 510 W/m ²	8 867 W/m ²
Blue	1 318 W/m ²	3 330 W/m ²



APPLICATION HIGHLIGHT: SEMI-CONDUCTOR ALIGNMENT



MANY APPLICATION AREAS WHEN **SMALL AREAS** NEED TO BE INSPECTED WITH PRECISION.



MODULAR M30 SPOTLIGHT



BACKLIGHT SPOTLIGHT CONFIGURATION

[2x] M2x4.25mm thread points for C-Mount adaptor



BL-SPOT

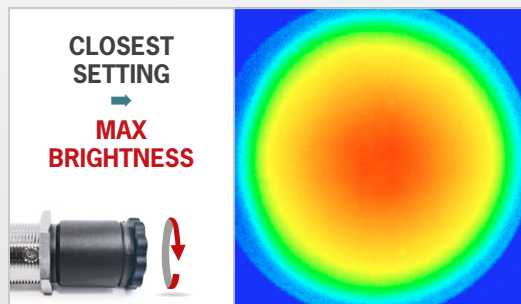
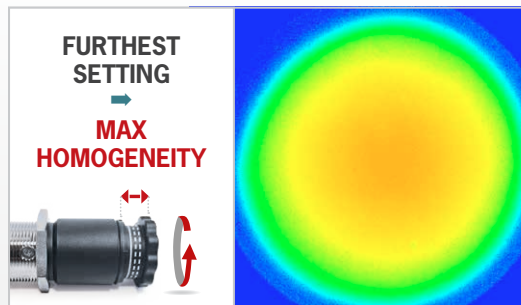


HIGH INTENSITY BACKLIGHT

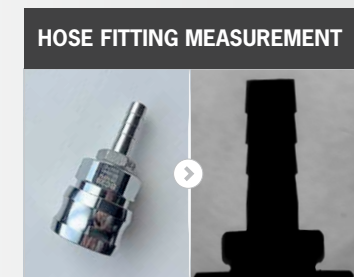
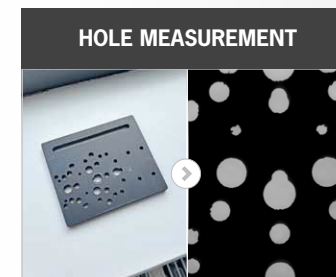
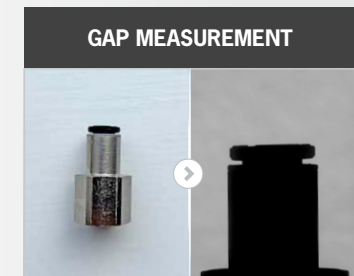
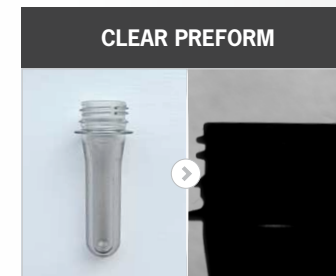
with both **OverDrive** and **Continuous Working** modes. Product can be adjusted between max brightness and max homogeneity.

■ INTENSITY MEASUREMENTS ON THE SURFACE OF LIGHT:

Colours	Continuous Mode	OverDrive Mode
White	383 333 Lux	968 371 Lux
Red	1 697 W/m ²	4 287 W/m ²
IR	1 016 W/m ²	2 568 W/m ²
Green	1 908 W/m ²	4 819 W/m ²
Blue	1 345 W/m ²	3 398 W/m ²



EXAMPLE APPLICATION IMAGES:



In the highest setting for the diffuser, the homogeneity will be higher but the peak intensity is 30% less than the lower setting for the diffuser.

MODULAR M30 SPOTLIGHT



TECHNICAL DATA

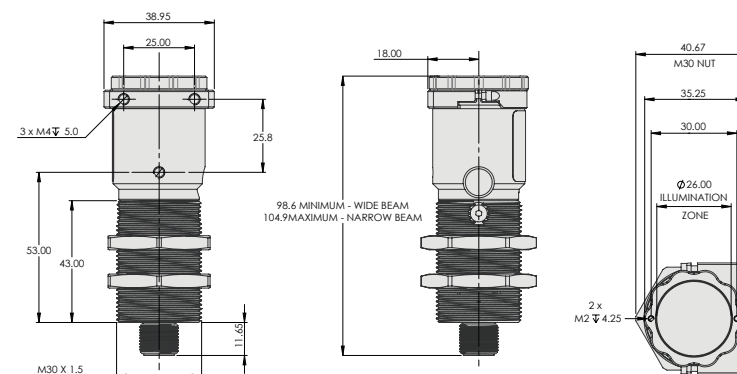
Electronics	
Power Supply	24VDC $\pm 10\%$
Functioning Mode	OverDrive Strobe, dimmed OverDrive Continuous working, dimmed Continuous
Rise and Fall Time	4 μ s rise time – 25 μ s fall time
Wiring	M12 5P (A-coded)
Strobe Conditions	10ms max on. 20% duty cycle for OverDrive
Peak Consumption (WHI) (OverDrive peak)	13.2W
Consumption (WHI) in continuous mode	4.8W
Optics	
Colours	WHI 5700K, Red 630nm, IR 850nm, Green 525nm, Blue 470nm, UV 405nm*, UV 385nm*, UV 365nm*
Mechanical	
Dimensions	104.9 x 38.95 x 40.67mm
Weight	115g
Materials	Aluminium, PMMA (visible wavelengths + IR), Glass (UV version only), Lexan/PC Graphic Overlay
Mounting/Fixing	M30 Body & M4 mounting holes on body + accessories
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	IP67: Z-SPOT & BL-SPOT IP50: IL-SPOT
Information	
Labels	RoHS / CE / UKCA / WEEE
Country of Origin	Made in France
Tariff Number	94054990

*UV Wavelengths for Z-SPOT only.

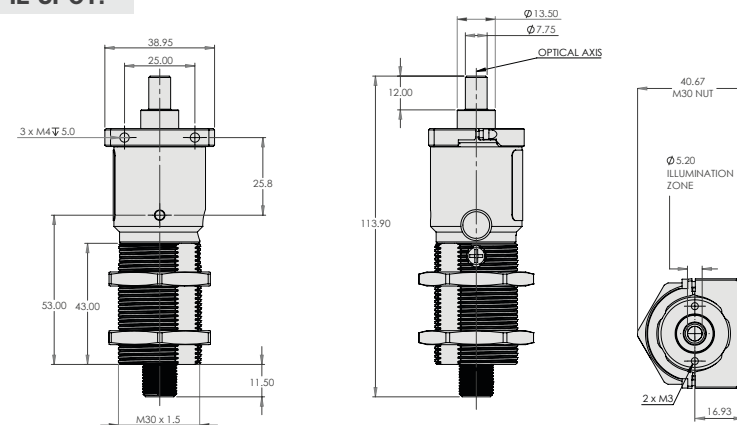
DRAWINGS:

Z-SPOT & BL-SPOT:

BL-SPOT lens adaptor is 5mm additional to the length.



IL-SPOT:



MODULAR M30 SPOTLIGHT



ORDER REFERENCES & ACCESSORIES

Z-SPOT:

CONFIGURATION	SPOT-M30	COLOUR
Z (Zoom)		WHI (white)
IL (In-Line)		630 (red)
BL (Backlight)		525 (green)
CO* (Combo)		470 (blue)
		850 (infrared)
		365 (UV)
		385 (UV)
		405 (UV)

EXAMPLES:

- Z-SPOT white ➔ Z-SPOT-M30-WHI
- BL-SPOT red ➔ BL-SPOT-M30-630
- IL-SPOT green ➔ IL-SPOT-M30-525
- Combo SPOT white ➔ CO-SPOT-M30-WHI

Z-SPOT
configuration
only

* Combo sets include all 3 optical accessory sets and one base lighting unit of chosen colour, not available in UV.



Get more information:

www.tpl-vision.com

Z-SPOT accessories:

BL Optic part  Ref: TPL-BL-SPOT	IL Optic part  Ref: TPL-IL-SPOT	Zoom Optic part  Ref: TPL-Z-SPOT
Polariser  Secure the polariser attachment in place using the two supplied M2 screws. Ref: TPL-POL-Z-SPOT*	Mounting Plate  M4 screws supplied, to securely attach the mounting plate to the body of the Z-SPOT. Ref: TPL-MOUNT-Z-SPOT	
Mounting Accessory  Ref: TPL-MOUNT-M30	Mounting Accessory  Ref: TPL-MOUNT-M30-ROD	Mounting Accessory  Ref: SWIVEL-MOUNT-T**
Extra M30 Nuts  Ref: TPL-NUT-M30	M12 5 pins cables  2 meters: C-M12-5P-2M 5 meters: C-M12-5P-5M 10 meters: C-M12-5P-10M	

* Not for use with UV 405nm, 385nm and 365nm options of the Z-SPOT.
If you require a polariser for a UV Z-SPOT, please get in touch with your sales representative to discuss your options.

** Requires TPL-MOUNT-Z-SPOT or TPL-MOUNT-M30 for compatibility.