



TEKNOWARE EXTREME

A sturdy light unit for use in extreme conditions such as in engine and luggage compartments and other demanding applications.

Teknoware Extreme has a robust and durable design which makes it an excellent light unit for extreme conditions. Its aluminium casing is both waterproof and shockproof. No matter whether it's hot or cold, wet or dry, you can always rely on Teknoware Extreme.

Extreme has six super bright CSP LEDs to make sure that there is enough light to work safely and effectively. The LEDs are protected from heat: if the ambient temperature rises above 70 °C they will automatically dim to improve product lifetime.

FACTS IN BRIEF



FOR AUTOMOTIVES



FOR EXTREME
CONDITIONS



SHOCKPROOF



WATERPROOF
DUSTPROOF



BLACK
RAL 9005

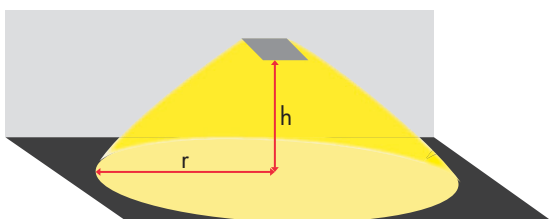


Teknoware Extreme

Product information	
Product ID	TVP17001 (1000-3870)
Weight	0.1 kg
Power	4.3 W
Cable	Protective sleeve Cable length 350 mm
Connectors	AMP Superseal, IP67 / IP69K
Connector housing	TE 282104-1, 2-Pole
Contact	TE 282404-1

Electrical characteristics	
Input voltage: nominal	24 VDC
Voltage: min-max	16-32 VDC
Input current, $\pm 10\%$: nominal	180 mA
Current: min-max	140-252 mA
Luminous flux	> 440 lm
Colour rendering index	> 80
Lumen maintenance	> 54 000 h L70 (max ambient temp. 70 °C)

LED information	
Light source	6 x white 4000 K CSP LEDs. (Chromaticity range 3-step MacAdam)
Light output	$h = 1.0 \text{ m} / r = 0.5 \text{ m}$ Peak: > 700 lux, > 100 lux @ 0.5m radius



Materials	
PCB	Aluminium 3.0 mm
Casing	Cast aluminium, powder coated (RAL 9005)
Lens	Silicone

Environmental conditions	
Ambient temperature range	-40 °C ... 100 °C; operational -40 °C ... 125 °C; storage
Degrees of protection	IP67 according to IEC 60529 and IPx9K according to ISO 20653:2013(E)
Salt mist	EN 60068-2-11, duration 240 hours

Electromagnetic compatibility	
Immunity	ECE-R10
Emissions	ECE-R10

- | Product features | |
|--|--|
| <ul style="list-style-type: none">• If the ambient temperature rises above 70 °C the LEDs will automatically dim to improve product lifetime.• The product is protected against reverse input voltage polarity.• The dielectric strength between the electronics and the chassis is 500 VAC.• Connectors can be customised according to the customers' needs.• Resilient optical silicone lenses with extremely good light transmission.• Cable output can be routed out from the end, side and back of the casing. | |

