

THORN
LIGHTING



AQUAFORCE PRO

Sets a new standard for moisture and dust-resistant LED lighting

ENGINEERED FOR HIGHER STANDARDS

You struggle every day with various tasks: difficult installations, challenging environments, tight time schedules. With its highly versatile and extremely durable concept, the IP66 Aquaforce Pro is here to help you deal with whatever comes your way.



Warehouses



Wokshop areas



Parking



Food industry



THE VERSATILE LIGHTING FIXTURE

HELPING YOU MOVE FORWARD

With the new Aquaforce Pro, you can rely on unprecedented performance and versatility. The IP66-rated fitting is available in a choice of wide- and medium-beam light distribution options tailored for factory, logistics and car parks. Its diffuser with scattering effects and refraction prisms ensures best light quality and is perfectly adapted for the new DIN 67528 parking standard. Moreover, Aquaforce Pro features DALI dimming and a built-in corridor function, using a presence detector to dim down and turn off automatically when circulation areas are not in use.



SMART LIGHT DISTRIBUTION

Cutting-edge light transmission technology: a combination of refraction prisms and scattering agents distribute the light over a wide angular range. It provides uniform light without sharp edges, and a high level of light transmission, for maximal efficacy.



Need to mount it on a wall?

Go ahead. Aquaforce Pro is suitable for wall mounting, both vertically and horizontally.

Worried about dirt build-up or temperature fluctuations?

This robust luminaire, made completely of polycarbonate (PC) is built to resist ambient temperatures ranging from -20°C to $+45^{\circ}\text{C}$. The polymethyl methacrylate (PMMA) version is designed for chemical, impact and UV resistance at ambient temperatures of -10°C to $+35^{\circ}\text{C}$.

Its clever drip-edge design avoids dust depositing on the light output surface. Some LED luminaires still struggle to match the light output of conventional products on a one-for-one basis. Aquaforce Pro is your ideal choice for retrofit and refurbishment projects. And with an efficacy as high as 144 lm/W, the potential savings are significant.



SIMPLE MOUNTING

We hope you appreciate how simple it is to install, use and maintain the lightweight Aquaforce Pro. Technical features such as the mounting sliders, EasyClick system for diffuser or the 10 conduit entry points make your work much easier to deal with the unexpected problems which could appear on site. Additionally Aquaforce Pro allows a tool-free installation on trunking systems.

Easy installation



Positioning



Fixing



Mounting sliders



EasyClick

AQUAFORCE PRO

TWO MATERIALS

PC: UV and high impact resistance; chemical resistance to alcohol, ethanol and water.

PMMA: High lighting transmission; resistant to shocks, weather influences and UV radiation; minimized risk of stress cracking; chemical resistance to a wide range of acids.

2 LENGTHS

1100 or 1600 mm versions.

DRIP-EDGE-EFFECT

Unique design with Drip-Edge-Effect to avoid dirt build up on main light output surface.



-20 UP TO +45°C (PC)
-10 UP TO +35°C (PMMA)

Operating temperatures.

SENSOR CONTROL

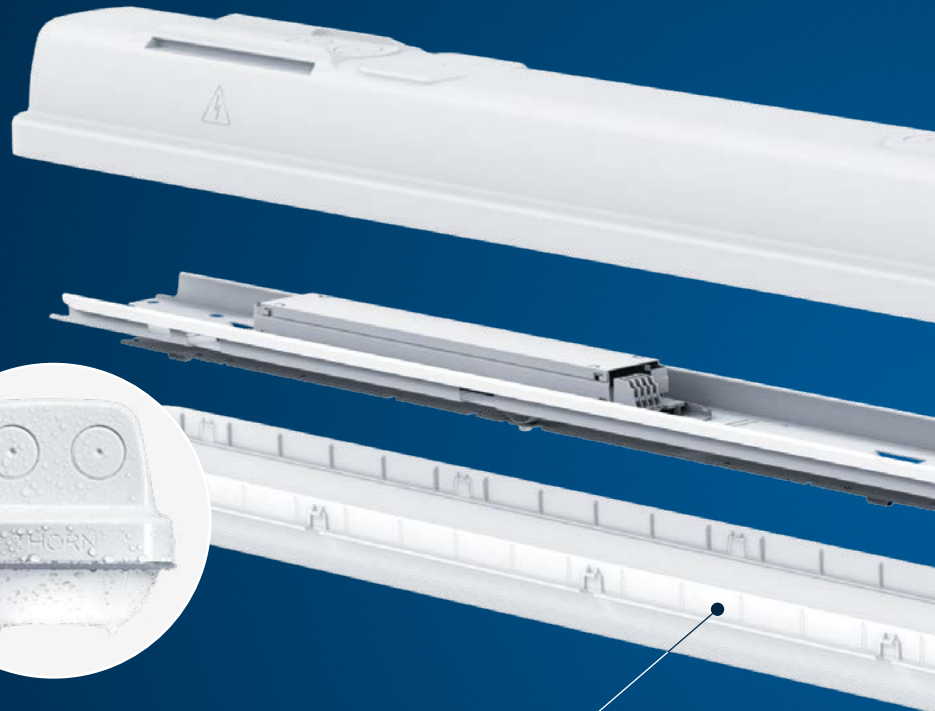


Integral presence detector and RF module for wireless connection of luminaires. Microwave presence detector, Radio Frequency (RF) and Bluetooth® Mesh (bmLINK) modules for wireless communication.



EASYCLICK

Patented snap-on mechanism for clipless mounting of diffuser.



QUICK-CONNECT

Equipped with quick fit electrical connection.
(PC version only)

SIMPLE MOUNTING

Long mounting sliders for high flexibility.



SCREWLESS CABLE TERMINAL

For quick installation.



DRILL HOLES FOR CABLE ENTRIES

10 cable entry options at 5 different positions for through-wiring.



bmLINK – SMART CONNECTIVITY

Thanks to the integral Bluetooth® Mesh module (bmLINK), you can now wirelessly connect lighting fixtures to each other or in groups. Or feel free to connect them to a central LITECOM control system. Aquaforce Pro can be controlled individually or in groups by presence or light sensors, and luminaires can even connect to each other wirelessly, for simple control without the need to install any new cabling.



COMMUNICATIVE

Aquaforce Pro enables wireless communication up to 15 m between luminaires thanks to Bluetooth® mesh. Luminaires can also be linked in groups over an unlimited distance.



FLEXIBLE

Conveniently configure Aquaforce Pro from your smartphone via password-protected Bluetooth® connection. bmLINK lets you define various light profiles, both individually and as a group.

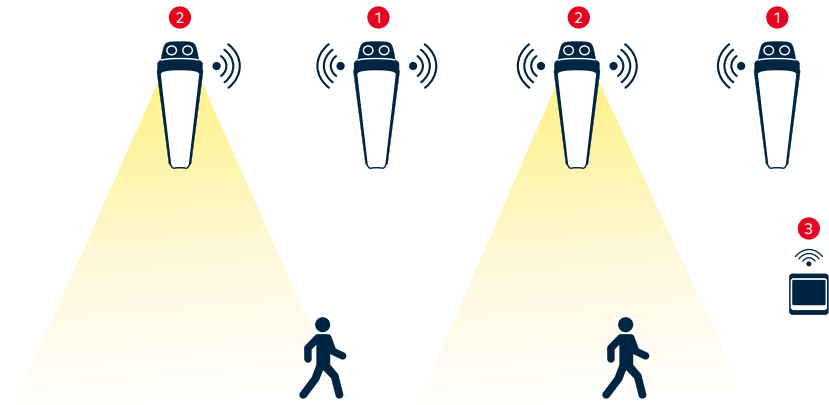


ADAPTATIVE

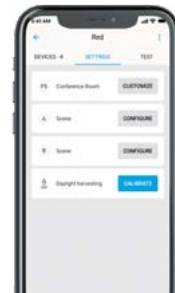
Aquaforce Pro is also available with a sensor that monitors movements over an area of 7.5m when mounted at a height of 3m. Adjusting the sensitivity, the range is also adjusted.

WIRELESS CAPABILITIES

Aquaforce Pro BM is equipped with a Bluetooth® Mesh module (bmLINK) for seamless wireless connectivity. Aquaforce Pro MWBM also features a presence sensor that detects movements nearby. If a sensor reports motion, the entire zone is set to the pre-defined levels. Commissioning and configuration is very easy via iOS app. Connection to a central LITECOM control system is also possible via bmLINK sender module.



- 1 Aquaforce Pro BM, (with bmLINK)
- 2 Aquaforce Pro MWBM, (with bmLINK and Microwave Presence Sensor)
- 3 Battery powered wireless push button



Download the free **bmLINK Tool** app provided by Zumtobel, a Member of the Zumtobel Group.



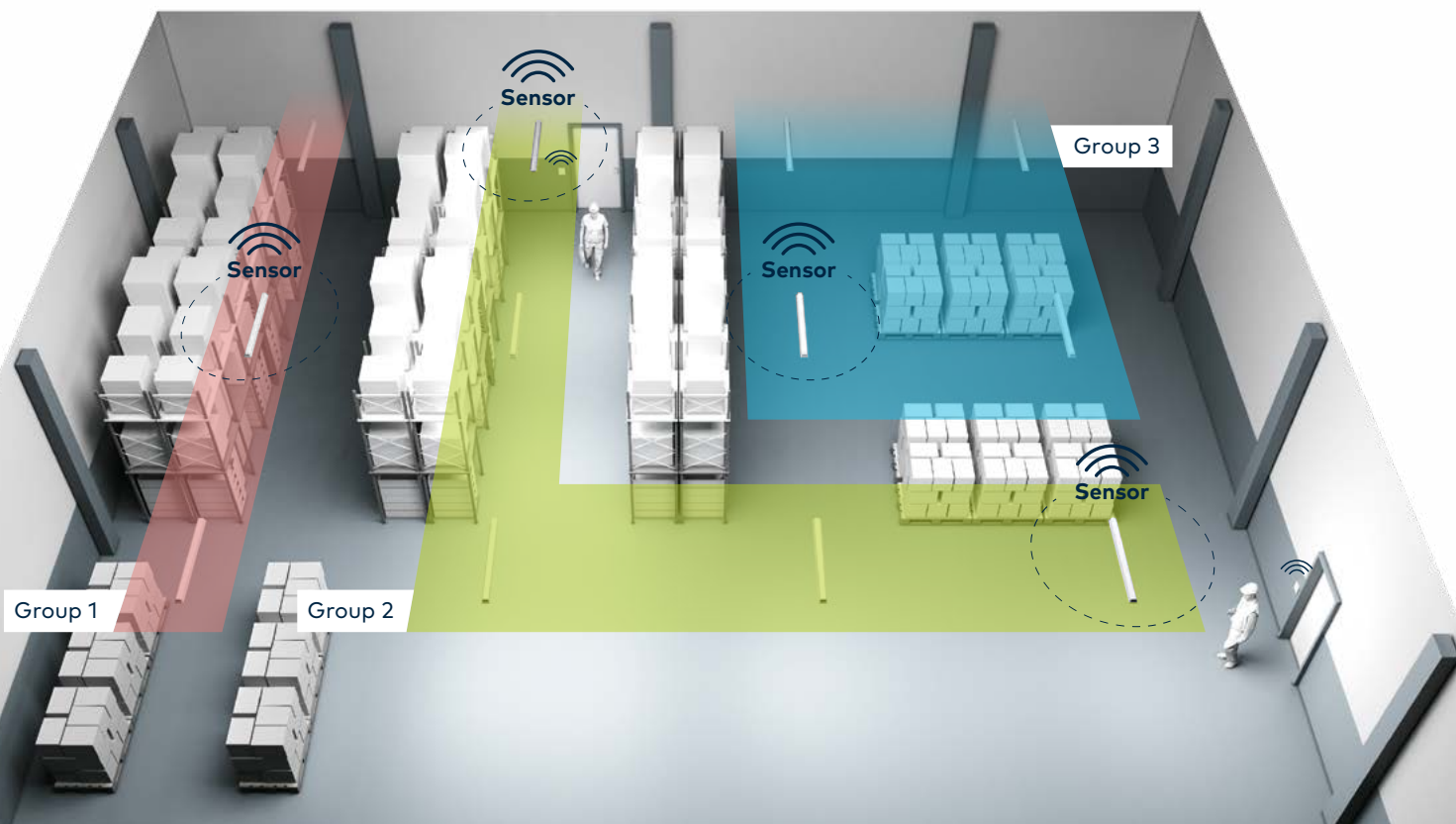
APPLICATION EXAMPLE

ROOM

- 8x Aquaforce Pro BM, (with bmLINK)
- 4x Aquaforce Pro MWBM, (with bmLINK and Microwave Presence Sensor)
- 1x Wireless zone with 3 luminaire groups
- 2x Wireless push buttons

LIGHTING SOLUTION

- In case of a detected movement the luminaire group switches on.
- All luminaires can be switched on and off manually using a wireless push button, or dimmed by long press.



CHEMICAL RESISTANCE OVERVIEW

	PC	PMMA		PC	PMMA
Acetic acid <10%	■	■	Hydrochloric acid (HCL) <10%	■	■
Acetic acid >10%	—	□	Hydrochloric acid (HCL) >10% <20%	■	■
Acetone	—	—	Hydrogen peroxide <10%	■	■
Aliphatic hydrocarbons	■	■	Hydrogen peroxide >10% <30%	■	■
Ammonia <25%	—	■	Hydrogen sulphide	—	—
Aniline	—	—	Isopropyl alcohol	■	—
Aromatic hydrocarbons	—	—	Ketones	—	—
Beer	■	■	Lime milk	□	■
Benzene	—	■	Methanol	—	—
Benzine (cleaning spirit)	■	■	Methylene chloride	—	—
Blood	■	■	Nitric acid <20%	—	—
Bromic acid	—	—	Nitric acid >10% <20%	□	■
Carbon dioxide gas	■	■	Nitric acid up to 10%	■	■
Carbon monoxide gas	■	■	Petroleum ether	□	■
Carbon tetrachloride	—	■	Phenol	—	—
Chlorine (concentration in indoor bath air)	□	□	Potassium hydroxide <30%	—	■
Chloroform	—	—	Pyridine	—	—
Chlorophenol	—	—	Regular petrol	—	—
Cresol	—	—	Seawater	■	■
Diesel fuel	—	—	Saline solution	■	■
Dioxane	—	—	Soapsuds	■	■
Ethanol <30%	■	□	Soda (sodium carbonate)	■	■
Ethanol >30%	■	—	Sodium hydroxide solution <10%	—	■
Ether	—	—	Spirit of turpentine	■	■
Ethyl acetate	—	—	Sulphuric acid (H ₂ SO ₄) <30%	■	■
Fats: animal	—	■	Sulphuric acid (H ₂ SO ₄) >30% <50%	■	—
Fats: mineral	—	■	Sulphuric acid (H ₂ SO ₄) >50%	—	—
Fats: vegetable	—	■	Toluene	—	—
Fuel oil	—	—	Trichloroethane	—	—
Glycerol	□	■	Water up to 60°C	■	■
Glycol	■	■	Xylene	—	—

CLEANING AGENTS, DISINFECTANTS AND COOLANTS

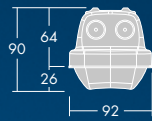
	PC	PMMA
ACMOSIL 37-5504	—	—
Coolants QUAKERCOOL 7200 HBF	—	□
Coolants QUAKERCOOL 7200 BFF	—	□
Coolants QUAKERCOOL 7100 HD	—	□
GORAPUR LI 2920-40 E	—	—
MV Quartacid plus from Schülke	■	■
MV Quartasept plus from Schülke	□	■
MV perform classic alcohol IPA from Schülke	■	■
P3-topactive OKTO (desinfectant; acid solution with peroxide) from ECOLAB	□	■
P3-topax 66 (cleaner/desinfectant; alkaline with chlorine) from ECOLAB	—	■
P3-topactive 200 (cleaner, alkaline with tenside) from ECOLAB	□	■
P3-topactive 500 (cleaner, acid solution with tenside) from ECOLAB	□	■
P3-topax 990 (neutral disinfectant; basic alkylaminacetat) from ECOLAB	□	■
PU-5408H, PU-1706M, PU-5421H, PU-4111M from Chem-Trend	—	—
PU-HS-Antiblock 6291/21, A-PU-Antiblock 6/428-5 from Bomix	—	—

DISCLAIMER: our recommendations concerning the chemical resistance of the materials are based upon information from material suppliers, careful examination of available published documents and our experience in different industry applications. However, since the resistance of metals, plastics and elastomers can be affected by the concentration, temperature, presence of various chemicals and other factors, the above datasheet should be considered as a general guide rather than an unqualified guarantee. Ultimately, the customer must determine the suitability of the luminaires in various solutions and applications.

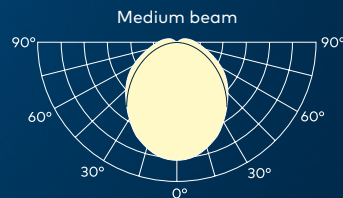
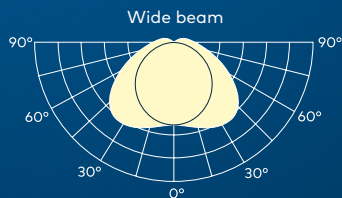
■ resistant □ conditioned resistant — not resistant

DISCOVER

AQUAFORCE PRO



	PC	PMMA
	2900 lm, 4300 lm, 5200 lm, 6400 lm, 8000 lm	
	Up to 144 lm/W	Up to 141lm/W
	3000K 4000K	
CRI	80	
UGR	<25	
	IP66	
	IK08	IK03
	-20 to +45°C	-10 to +35°C
	50 000h L90@25°C	



Fixed output, DALI, Wireless Radio Control (RF), Bluetooth® Mesh Wireless (bmLINK), Microwave Presence Sensor (MWS), Microwave Presence Sensor Corridor Function (MWCF), Microwave Presence Sensor Radio Control (MWRF), Bluetooth® Mesh Wireless (bmLINK) and Microwave Presence Sensor (MWBM)



E3, E3D, E3DUK



GET IN TOUCH

www.thornlighting.com/AQUP www.thornlighting.com/contacts



**5 YEAR
GUARANTEE**

As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.
thornlighting.com/guarantee

Thorn Lighting is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. The right is reserved to change specifications without prior notification or public announcement. All goods supplied by the company are supplied subject to the company's General Conditions of Sale, a copy of which is available on request. All measurements are in millimetres and weights in kilograms unless otherwise stated.
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MAKE
LIGHT
WORK**