

AQUALUC S:OLID MONOCHROME HIGH BRIGHTNESS

- fully encapsulated rigid LED light line with thermal conductive polyurethane-ceramic compound and IP 68 protection
- for underwater installations up to a depth of 1.2 m (immersion time < 2 years, 1 ppm free chlorine at 35 °C, ptt value of 6.8-7.6)
- only one bin per color according to 3 step MacAdam
- protected by hard encapsulation against mechanical, physical and chemical influences
- uniform, absolute homogeneous illumination over the entire light emitting surface
- as opposed to metal, no occurrence of oxidation (rust) as housing completely made of plastic
- current limiter and high amount of copper in FPC enable a long lifetime



Please observe the installation and safety instructions at <https://www.barthelme.de/content/en/manuals.aspx> !

When ordering, please note the article number scheme at the end of the data sheet.

PHOTOMETRIC DATA



	AQUA-5001-0028	AQUA-5001-0031	AQUA-5001-0040	AQUA-5001-0057
Type of color	White			
Typ. color temperature	2800 K	3100 K	4000 K	5700 K
Light color	warm white	white	cold white	daylight
Typ. total luminous flux per metre	1173 lm/m	1224 lm/m	1343 lm/m	1360 lm/m
Efficiency	69 lm/W	72 lm/W	79 lm/W	80 lm/W
Energy efficiency class	A			
Typ. color rendering index	85			
Beam angle	120 °			
Dimming	dimmable			
LED strip used	LEDlight flex 12 8p High Efficiency Plus			
L80 bei Ta < 35°C	>60.000 h			

Note: The stated Energy Efficiency Class (EEK) refers to a product length of 1m. The EEK may differ for other lengths. Length tolerance +/- 5 mm at < 1 m and +/- 0.2 % at > 1 m

PHOTOMETRIC DATA TOLERANCES IN THE AQUALUC FAMILY: The stated photometric data of the AQUALUC products are typical values which in practice are influenced by the binning of the LED's as well as the individual production steps in the encapsulation process. Factors such as layer thickness, type of encapsulation and the light color of the uncoated LED's have an influence on the resulting color temperature of the finished AQUALUC product. As each of these factors are subject to process and production related tolerances the resulting photometric data of the AQUALUC products can deviate from the stated typical values.

ELECTRICAL DATA

	AQUA-5001-0028	AQUA-5001-0031	AQUA-5001-0040	AQUA-5001-0057
Operating voltage	24 V DC			
Power per meter	17,3 W/m			

MECHANICAL DATA

	AQUA-5001-0028	AQUA-5001-0031	AQUA-5001-0040	AQUA-5001-0057
Width			17,5 mm	
Height			17,5 mm	
Type of protection			IP 68	

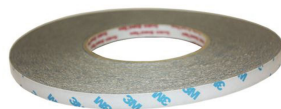
GENERAL DATA

	AQUA-5001-0028	AQUA-5001-0031	AQUA-5001-0040	AQUA-5001-0057
Ambient temperature Ta			-20 °C ~ +35 °C	
Max. temperature Tc			63 °C	
Max. operable length			2720 mm	
Max. buildable length with 1 m cable			2720 mm	
Remarks			Connection/forwarding cable: optionally 1 - 6 m with free wire ends	

ACCESSORIES

	40100141	40100142
Description	AQUALUC S:OLID support profile, PC plastic, UV resistant	
Material	PC	
Length	1000 mm	2000 mm
Width	21,6 mm	
Height	13,5 mm	
Remarks	When the AQUALUC S:OLID is inserted, the holding profile expands to a dimension of up to 22.5 mm.	

	30033009	63500022	63500030
Description	heat resistant double-sided tape, with excellent adhesive properties	technical Vaseline, high purity, chemically neutral, 80 g bottle, suitable for all mounting profiles	construction one component glue, firm-elastic, white, cartridge 290ml
Material	Acryl		1K-Hybrid-Polymer
Length	33000 mm		
Width	9 mm		
Height	0,4 mm		
Remarks	33 m x 9 mm	For mounting AQUALUC strictly recommended	see separate data sheet



ARTICLE NUMBER SCHEME

AQUA		XXXX	XXXX	XXXX	XX	XXX	XXX	
		1	2	3	4	5	6	
TYP TYPE		LICHTFARBE LIGHT COLOUR		WUNSCHLÄNGE IN MM WISH LENGTH IN MM		KABEL-ZUFÜHRUNG CABLE FEED	ZULEITUNG CABLE IN-FEED	WEITERLEITUNG CABLE OUT-FEED
5004 – monochrome BRIGHT monochrome BRIGHT		0028 – 2800 K 0031 – 3100 K 0040 – 4000 K 0041 – 4100 K				21 – einseitig one-sided 22 – beidseitig double-sided	001 – 1 m-Kabel cable 002 – 2 m-Kabel cable 003 – 3 m-Kabel cable 004 – 4 m-Kabel cable 005 – 5 m-Kabel cable 006 – 6 m-Kabel cable	000 – keine Weiterleitung no cable out-feed
5001 – monochrome HIGH BRIGHTNESS monochrome HIGH BRIGHTNESS		0050 – 5000 K 0057 – 5700 K 0625 – Rot Red 0525 – Grün Green 0470 – Blau Blue 0593 – Amber				23 – Rückseite, einseitig one-sided, rear 24 – Rückseite, beidseitig double-sided, rear		001 – 1 m-Kabel cable 002 – 2 m-Kabel cable 003 – 3 m-Kabel cable 004 – 4 m-Kabel cable 005 – 5 m-Kabel cable 006 – 6 m-Kabel cable

IN INDIVIDUELLEN LÄNGEN, MIT BEIDSEITIGER UND RÜCKSEITIGER EINSPEISUNG ERHÄLTlich | AVAILABLE IN INDIVIDUAL LENGTHS, WITH OPTIONAL IN-FEED ON BOTH SIDES AND REAR SIDE

NOTE

During the production of encapsulated luminaires, air bubbles may be enclosed in the material. These bubbles are production-related and do not constitute a defect. If the bubbles are within the beam feed path of an LED, this can constitute a defect.

NOTE CHEMICALS

The AQUALUC encapsulation materials have successfully passed various test series in which resistance to salt, water, UV radiation, abrasion, dust and chemicals were tested. Each AQUALUC light line is ideally suited for indoor and outdoor illumination. For example on facades and bridges, in wellness oases and swimming pools, from maritime areas to industrial applications and vehicle technology - AQUALUC is already being used successfully everywhere. Despite the use of high quality materials and a robust design, there are chemical-related limitations in the areas of application. Please refer to the following link:

<https://www.barthelme.de/shared/download/katalog/AQUALUC-Chemische-Mittel-Chemical-Agents.pdf>