

AQUALUC C:URVE Pixel

- fully encapsulated, flexible LED light line with heat-conducting polyurethane ceramic connection and IP 67 protection
- for the realisation of dynamic effect lighting, such as running lights or rainbow sequences, both indoors and outdoors
- individually addressable LEDs with pixel-controlled LED strips
- any colors in the RGB color spectrum can be displayed
- resistant to water, UV radiation, abrasion and chemicals



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.

The polarity must be observed ! If the polarity is incorrect, there will be no light emission or the LED module may be damaged! Wire assignment: white: +5V DC / red: DAT / green: GND

PHOTOMETRIC DATA



	AQUA-3009-0RGB
Type of color	Pixel
Light color	RGB
Typ. total luminous flux per metre	207 lm/m
Typ. luminous flux per metre red	57 lm/m
Typ. luminous flux per metre green	115 lm/m
Typ. luminous flux per metre blue	35 lm/m
Efficiency	7,7 lm/W
Energy efficiency class	E
Beam angle	120 °
Dimming	dimmable
LED strip used	LEDlight flex 10 10 PIXEL
L70 bei Ta < 55°C	>30000 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

Not designed for continuous operation of individual or all channels with full power control. A control unit is not included in the scope of delivery. This light line requires a separately available control unit.

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-3009-ORGB
Operating voltage	5 V DC
Power per meter	27 W/m

MECHANICAL DATA

	AQUA-3009-ORGB
Width	10 mm
Height	18,5 mm
Bending radius	150
Type of protection	IP 67

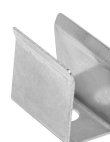
GENERAL DATA

	AQUA-3009-ORGB
Ambient temperature Ta	-20 °C ~ +55 °C
Max. temperature Tc	67 °C
Max. operable length	3022 mm
Max. buildable length with 1 m cable	3022 mm
Remarks	Connection/forwarding cable: 1 - 6 m with free wire ends Note polarity - Wire assignment: white: +5V DC / red: DAT / green: GND Communication standard WS2812

ACCESSORIES

	40500033	40500034	40500037	40500038	40500071	40500072
Description	AQUALUC C:URVE (10 x 18,5 mm) aluminium mounting profile, anodised		AQUALUC C:URVE (10 x 18,5 mm); not gripping mounting profile, aluminium, anodized		AQUALUC C:URVE (10 x 18.5 mm) mounting profile, PC plastic, UV resistant	
Material	Aluminium 6063				Plastics	
Length	1000 mm	2000 mm		3000 mm	1000 mm	2000 mm
Width	15,3 mm		14,6 mm		15,3 mm	
Height	16,3 mm		25 mm		16,3 mm	
Remarks			The Aqualuc is enclosed and can move freely. Strain and compression of the light line are avoided in the event of temperature fluctuations.			

	40500035	40500036
Description	AQUALUC C:URVE (10 x 18,5 mm) aluminium bracket set, 10 pieces 5 cm, 10 screws, 10 dowels	AQUALUC C:URVE (10 x 18,5 mm) bracket set, 10 pieces stainless steel 316L, 10 screws, 10 dowels
Material	Aluminium 6063	316L stainless steel
Length	50 mm	20 mm
Width	15,3 mm	11,5 mm
Height	16,3 mm	16,5 mm
Remarks	Diameter hole: 2.9 mm	Diameter hole: 6 mm



	30033019	40100111	63500024	63500033
Description	heat resistant double-sided tape, with excellent adhesive properties	dismounting tool, minimizes the mechanical stress on the product when removing	Technical Vaseline, high purity, chemically neutral, 80 g tube, suitable for all mounting profiles	Silicone adhesive and sealant, one-component, transparent, cartridge 290 ml
Material	Acryl	Poly lactide PLA		
Length	33000 mm	210 mm		
Width	9 mm	8 mm		
Height	0,4 mm	62 mm		
Remarks	33 m x 9 mm		For the assembly of the AQUALUC absolutely recommended	not suitable for PC-plastic profiles



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
	3009 -Pixel	0RGB - RGB		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 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 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>

The guarantee period for the product is 5 years and begins on the day of shipment. Reference is the date of the delivery bill. The guarantee period may differ for accessories.