ILED Aquarius Illuminated Windsock



ILED Aquarius Illuminated Windsock

Overview

The ILED Aquarius Illuminated Windsock provides pilots with an indication of the wind direction as specified by IMO Modu Code, CAA CAP 437 and ICAO Annex 14. These regulations require the presence of at least one windsock, which if the helideck is intended for use at night, must be illuminated. Utilising Tideland's ILED technology, the windsock is illuminated internally, thereby minimising glare and thus increasing safety.

The ILED Aquarius Illuminated Windsock is just one of the products in Tideland's complete range of ILED helideck signalisation and lighting solutions, which includes the CIRCLE-H and Helideck Status Light (Wave-Off) Systems as well as perimeter lights, obstruction warning lights and floodlights.

The ILED Aquarius Illuminated Windsock is manufactured out of corrosion resistant materials. All exposed material, with the exception of the lighting fixture itself, is Stainless steel AISI 316L. For the lighting fixture aluminium was chosen because of its excellent thermal conductivity, ensuring that the LEDs have the longest possible service life. The alloy used is extremely corrosion resistant and recommended for offshore use.

Also available as an optional extra is an integral Red obstruction light - which also uses Tideland's ILED technology. Available as either certified to ATEX Zone 1, or as an industrial Safe Area version. The windsock system is also ideal for onshore installations such as petro-chemical works, helipads and airports. As with all Tideland products, the ILED Aquarius Illuminated Windsock is designed to require an absolute minimum of maintenance.

Tideland's sealed unit philosophy, which keeps all contaminants and corrosive influences away from sensitive electronics, combined with the ATEX/IECEx Ex e certification means that only a periodic visual inspection is required. Whilst smart design and the use of the highest grade materials and components enables excellent heat management that ensures the longest possible operating life.

An example of the smart design that sets the windsock apart from all others is the unique reflector mechanism, which completely removes the need to use moving electrical parts - such parts being highly prone to failure, especially in the corrosive environment encountered offshore. The innovative design and use of extremely durable materials result in increased operational safety and a lower total cost of ownership.



Technical Details

Model
Light Source
System Power
Light Colour
Ambient Temperature
(Re)ignition
Voltage Range
Power Factor/Cos φ
IP Rating
IEC Protection Classes
Lens
Housing
Construction Height
Base pole Height
Windsock Size
Weight of Construction
Mounting Flange Size
Mounting Holes
Standard Version

ILED Aquarius Windsock	
LED	
± 35 W (without top light)	
White	
-40 °C up to +55 °C	
Immediate	
90 - 250 Vac	
>0.90	
IP66	
Class 1	
Toughened borosilicate glass	
Marine Grade Aluminium Anodized	
2.58 m	
1.67 m	
Ø 50 cm, length 150 cm	
45 kg	
Ø 220 mm	
8 x 18, Ø 180 mm	
Standard Ex e junction box 1x M20 entry	_
(stainless steel)	

Terminals suitable for max. 4 mm²



Unique Reflector Mechanism



ILED Obstruction Light



Interchangeable Windsock



Fully Stainless Steel

Certificate Details

Model	ILED Aquarius Windsock			
ATEX Classification	Group II, Category 2, Gas and Dust			
Area Classification	Category 2 (Zone 1 and 21)			
Certificate (ATEX)	SIRA 11ATEX3101X & SIRA 11ATEX5239U			
Certificate (IECEx)	IECEx SIR 11.0046X & IECEx SIR 11.0103U			
Fixture				
Marking (ATEX)	II 2GD			
	Ex e IIC T4 Gb			
	Ex tb IIIC T135°C IP66 Db			
	Ta = -40°C to $+55$ °C			
Marking (IECEx)	Ex e IIC T4 Gb			
_	Ex tb III C T135°C IP66 Db			
	Ta = -40°C to $+55$ °C			
Power Supply	II 2GD			
Marking(ATEX)	Ex e mb IIC T4 Gb			
	Ex tb IIIC T135°C Db IP66			
	Ta = -40°C to $+55$ °C			
Marking (IECEx)	Ex e mb IIC T4 Gb			
	Ex tb III C T135°C Db IP66			
	Ta = 40°C to $+55$ °C			
ABS Approval	14-LD1100054-PDA			
CE	Yes			

Optional

Voltage Range Top Obstruction Light (Red) Construction Height (incl. top light) Dividable Base Pole Mounting

Windsock Colour Options Cable

24 Vdc ± 10% - 35 W 5 W, type A & B acc. to ICAO annex 14 and Group A acc. to CAP 168 & CAP 437 2.80 m

Height 2 x 83.5 cm

Weldable flange, Ø 220 mm, 8 x M16

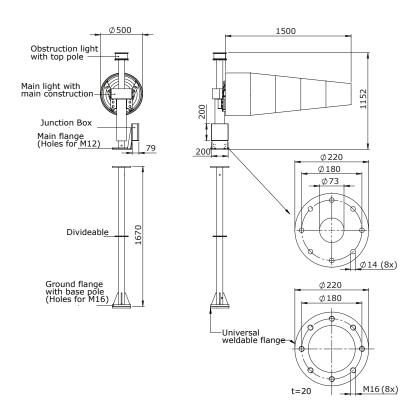
Red/White, Orange

On request

Characteristics

- ILED High life expectancy with low maintenance
- Light fitting is "sealed unit"
- Shock and vibration resistant
- Patented construction
- According to ICAO Annex 14, CAA CAP 437 & 168 and IMO Modu Code 2009, helideck as per § 13.3.2

ILED Aquarius Windsock



Article Code	Version	Wattage	Voltage	Connection	Weight
107.002	ILED – Ex	35 W	24V	Ex e stainless steel AISI 316L junction box	31 kg
107.003	ILED – Safe Area	35 W	24V	Stainless steel AISI 316L junction box	31 kg
107.004	ILED – Ex	35 W	90 – 250 Vac	Ex e stainless steel AISI 316L junction box	31 kg
107.005	ILED – Safe Area	35 W	90 – 250 Vac	Stainless steel AISI 316L junction box	31 kg
107.008	ILED – Ex	40 W	24 Vdc	with obstruction light	39 kg
107.009	ILED – Ex	40 W	90-255 Vac	with obstruction light	39 kg
107.010	ILED – Safe Area	40 W	24 Vdc	with obstruction light	39 kg
107.011	ILED – Safe Area	40 W	90-250 Vac	with obstruction light	39 kg

Spares

Article Code	Version	Description	Dimensions	Weight
107.006	ILED Basepole	Stainless Steel AISI 316L + flange	2 x 83.5 cm – divisible	17 kg
107.019	ILED Spare Windsock	Red/White Striped	Ø 50 cm, Length 150 cm, Ø 25 cm	
107.027	ILED Spare Windsock	Orange	Ø 50 cm, Length 150 cm, Ø 25 cm	

Source IEx 19998 Hickory Twig Way Spring, TX 77388 sales@sourceiex.com Tel: (281) 882-8300 www.sourceiex.com



www.sourceiex.com

www.tideland signal.com

Tideland is part of Xylem Analytics and a leading provider of aids to marine navigation. Xylem Analytics is part of Xylem Inc., a global company focused on solving the world's most challenging and fundamental water issues. As accurate analysis is crucial to the water industry, Xylem Analytics taps its diverse product brands for leadership in that field and beyond, providing the best laboratory and field monitoring instrumentation across a wide variety of industries.