



ILED® & IQL® Aquarius Illuminated Windsock

CAP 437 Helidecks
Offshore Wind Farms
Petro-Chem Industries



ILED® & IQL® Aquarius Illuminated Windsock

Overview

The ILED Aquarius Illuminated Windsock provides pilots with an indication of the wind direction as required 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 IMT'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 IMT'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 IMT'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 IMT products, the ILED Aquarius Illuminated Windsock is designed to require an absolute minimum of maintenance.

IMT's "sealed for life" 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. All of this means improved and increased safety, along with significantly reduced maintenance costs resulting in a very low "total cost of ownership".

Technical Details

Model	_____
Light source	_____
Luminous flux (light source)	_____
Luminous flux (light source) lm/w	_____
Lamp lumen depreciation	_____
System power	_____
Light colour	_____
Colour rendering	_____
Ambient temperature	_____
Burning position (Re)ignition	_____
Voltage range	_____
Power factor/Cos φ	_____
IP Rating	_____
IEC protection classes	_____
Lens	_____
Mercury level	_____
Housing	_____
Reflector	_____
Construction	_____
Construction height	_____
Base pole height	_____
Windsock size	_____
Weight of construction	_____
Mounting flange size	_____
Mounting holes	_____
Standard version	_____

Certificate Details

Model	_____
ATEX classification	_____
Area classification	_____
Certificate (KEMA)	_____
Certificate (GOST)	_____
Certificate (IECEX)	_____
Certificate (ATEX)	_____
Marking	_____
ABS Rules PDA Certificate	_____
CE	_____

Optional

Voltage Range	_____
Top Obstruction Light (Red)	_____
Construction height (incl. top light)	_____
Dividable Base Pole	_____
Mounting	_____
Windsock size	_____
Windsock colour options	_____
Junction Box	_____
Cable	_____
Construction	_____

Adapter Flange for conversion from existing Windsock systems



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 mm ²

IQL® Aquarius Windsock

QL (Induction)
6,200 lm
73 lm/W
30 % loss after 60,000 hours
85 W
Standard White (colour 830)
Ra>80
-40 °C up to +40 °C
Windsock illuminated from below
Immediate
200 – 277 Vac/dc ± 6 %
>0.98
IP66
Class 1
Borosilicate glass
5.0 mg
Stainless steel AISI 316L
275 mm shield – stainless steel AISI 316L
Galvanised steel
2.55 m
1.00 m
Ø 50 cm, length 150 cm
70 kg
Ø 220 mm
8 x 18, Ø 180 mm
Standard Ex e junction box 3x M25 entries (GRP)
Terminals suitable for max. 4 mm ²
Suitable for through wiring

ILED® Aquarius Windsock

Group II, Category 2, Gas and Dust
Category 2 (Zone 1 and 21)
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IECEx SIR 11.0046X
SIRA 11ATEX3101X
Ex II 2 G Ex e mb IIC T4 Gb
Ex II 2 D Ex tb IIIC T135 °C Db IP66
14-LD1100054-PDA
Yes

IQL® Aquarius Windsock

Group II, Category 2, Gas and Dust
Category 2 (Zone 1 and 21)
KEMA 02ATEX1257X
POCC NL.HO06.B00732
--
--
Ex II 2 GD EEx me II T4 T135 °C
--
Yes

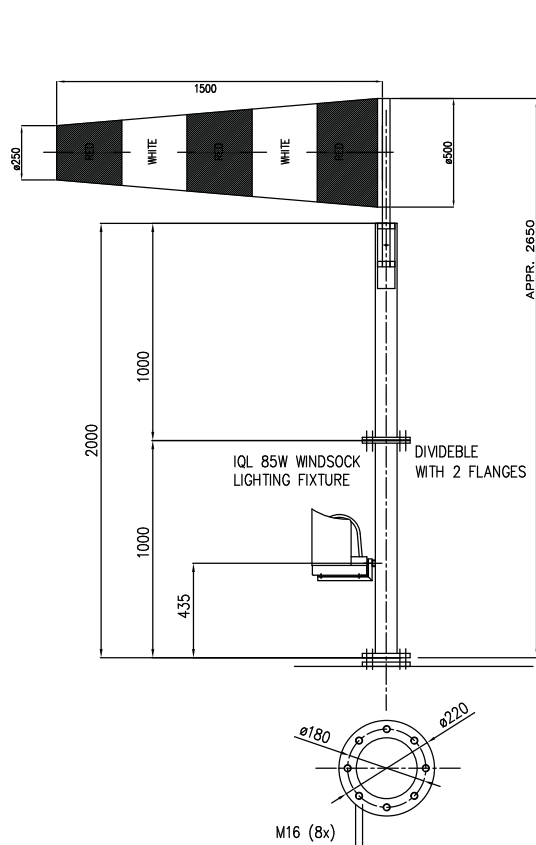
24 Vdc ± 10 % – 35 W
5 W, type A & B acc. to ICAO annex 14 and Group A acc. to CAP 168 & CAP 437
2.80 m
Height 2 x 83.5 cm
Weldable flange, Ø 220 mm, 8 x M16
Ø 60 cm, length 240 cm
Red/White, Orange
--
On request
--

100 – 120 Vac/dc +6 %
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--
--
Red/White
Stainless steel AISI 316L
On request
Stainless steel AISI 316L

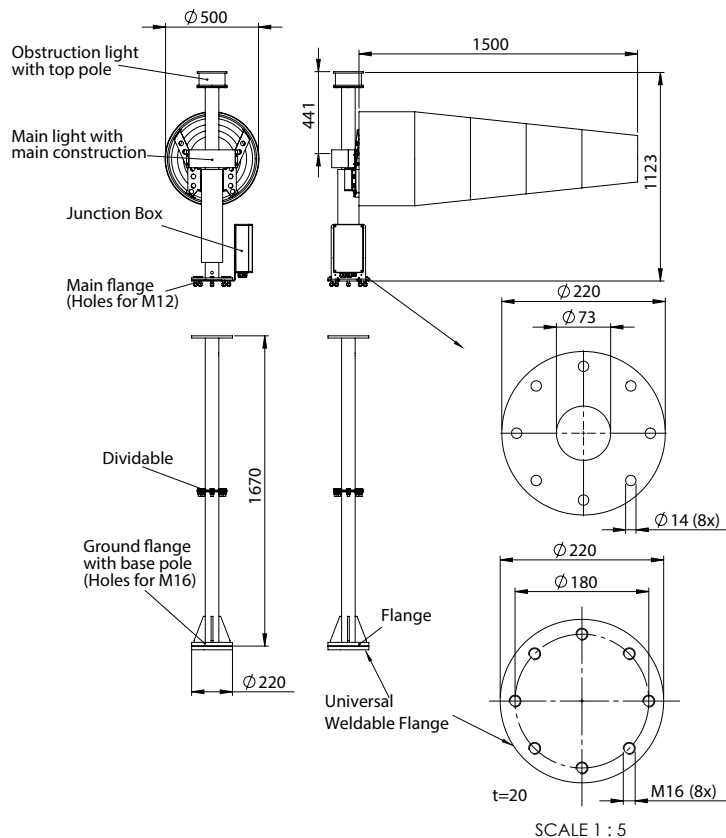
- IQL® High life expectancy with low maintenance
- ILED® High life expectancy with low maintenance
- Light fitting is "sealed for life"
- Shock and vibration resistant
- Patented construction
- According to ICAO Annex 14, CAA CAP 437 & 168 and IMO Modu Code 2009, helideck as per § 13.3.2

**Unique Reflector Mechanism****ILED® Obstruction Light****Interchangeable Windsock****Fully stainless steel**

IQL Aquarius Windsock



ILED Aquarius Windsock



Articel Code	Version	Wattage	Voltage	Connection	Weight
EDIWIND-GALVDLB	IQL - Ex	85 W	230V	Ex e junction box with 3x M25 entries	70 kg
EWSA5JA0V243	ILED - Ex	35 W	90 - 250 Vac	Ex e stainless steel AISI 316L junction box	31 kg
EWSA5JA0V443	ILED - Safe Area	35 W	90 - 250 Vac	Stainless steel AISI 316L junction box	31 kg
EWSA1JA0V243	ILED - Ex	35 W	24V	Ex e stainless steel AISI 316L junction box	31 kg
EWSA1JA0V443	ILED - Safe Area	35 W	24V	Stainless steel AISI 316L junction box	31 kg

Spares

Articel Code	Version	Description	Dimensions	Weight
CDI0002	IQL Spare Windsock	Red/White Striped	Ø 50 cm, Length 150 cm, Ø 25 cm	--
CDI0181	ILED Spare Windsock	Red/White Striped	Ø 50 cm, Length 150 cm, Ø 25 cm	--
CDI0204	ILED Spare Windsock	Orange	Ø 50 cm, Length 150 cm, Ø 25 cm	--
EABASEPOLE	ILED Basepole	Stainless Steel AISI 316L + flange	2 x 83.5 cm - divisible	27 kg
EWOA0HA0A243	Obstruction Light	Aluminium - IP66 Ex		8 kg



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