ELEVATED LIGHTS

NON-PRECISION APPROACH

RUNWAY EDGE

RUNWAY END

THRESHOLD

APPROACH

TAXIWAY EDGE



RUNWAY EDGE RUNWAY END THRESHOLD

APPROACH

KEY FEATURES

- Equipped with omni-directional guiding function
- Optional Infrared Signal compatible with Enhanced Vision System
- Fail open with automatic reset

CONCEPTION

- Fully considers the environmental condition
- Minimizes the maintenance frequency
- Designed to last forever

DESIGN

- Adaptive optical system for maximum utilization of the LED performance
- Synchronous Driver Technology no transformer, low inrush and high-power factor
- Unique Sealing Technique silicon sealing for prism installation using a special designed robotic assembly line
- Ultra-Durable Structure aluminum casting housing with UV-resistant PC
- Modular Design universal components for all series, functions are only distinguished by LED light module

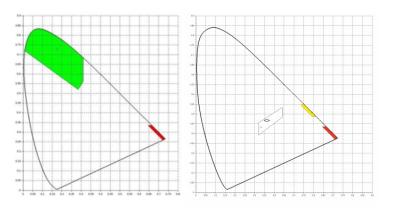
SERVICE LIFE

- LED Lifetime > 80,000 Hours
- Overall Design Life > 10 Years
- Maintenance Period > 2 Years

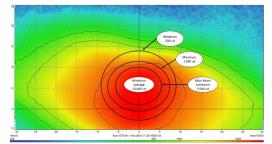
REGULATION

- ICAO Annex 14 Vol 1, 8th Edition
- Aerodrome Design Manual 9157
- CAAC-AC-137-CA-2015-01 04
- EASA CS-ADR-DSN
- FAA AC150/5345-46E

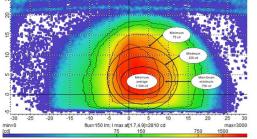
COLOR COORDINATES

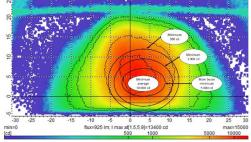


OPTICAL



Morning 123 of 1250 of





Threshold EB-NH-1-U-G-0

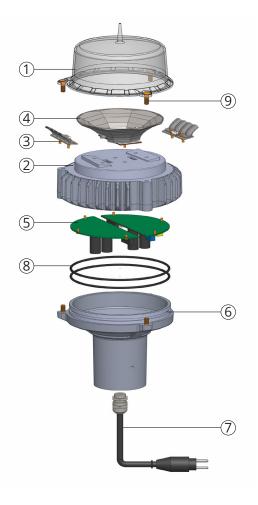
Runway End EB-NE-1-U-R-0

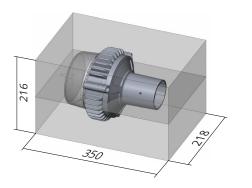
Runway Edge EB-NR-1-0-C-C

Runway Edge EB-NR-1-0-R-R

TECHNICAL DATA

Mechanics					
Diameter	173.4mm				
Height	253mm (incl. frangible coupling – 313 mm)				
Net Weight	3.0kg				
Packing Dimensions	nsions 350 x 218 x 216mm 3.3kg				
Gross Weight					
Environmental					
Operating Temperature	-50°C – +55°C (Device must be always active)				
Storage Temperature	-40°C – +85°C				
Solar Radiation	1.5kW/m²				
Protection Class (Dust/Liquids)	ection Class (Dust/Liquids) IP68 (IEC69598-1)				
Humidity	0 – 100%				
Electrical					
Connection	FAA L823 Style 1 Connector				
Power Input	2.8 – 6.6Aeff AC				
Sinewave CCR	lpeak max = 9.88A				
Thyristor CCR	lpeak max = 12.60A, φmin = 45°				
Power-Factor (nominal)	>0.97				
Power Consumption (nominal)	Runway End – Red	<10.0W			
	Runway Edge – White/Yellow	<18.0W			
	Runway Edge – White/White	<27.0W			
	Runway Edge – White/Red	<<16.0W			
Fail Open	Reaction on	Output Open Circuit			
		Output Short Circuit			
		Overheating			
hermal Protection	85°C < LED – PCB Temp <	Linear Derating			
	LED – PCB Temp > 105°C	Shutdown & Fail Open			
Thermal Degradation Compensation	Luminous Flux @ -40°C – +70°C (LED-PCB Temp)	± 5%			
EMC Protection	Emission IEC 61000-2				
	Immunity IEC 61000-4				

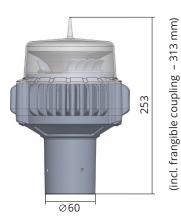


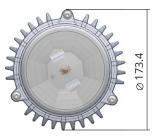


COMPONENTS

- 1. PC Dome
- 2. Top Part
 3. Uni-directional Optic Module
 4. Omni Optic Module
 5. Electrical Driver

- 6. Bottom Pan
- 7. Cable Package 8. Sealing Package 9. Screw Package





PACKAGE DIMENSIONS

Net Weight: 3.0kg Gross Weight: 3.3kg

TAXIWAY EDGE







KEY FEATURES

- Simple structure avoids accumulation of dust and water
- Complete sealing effectively increases the service life
 Fail open with automatic reset

CONCEPTION

- Fully considers the environmental condition Minimizes the maintenance frequency
- Designed to last forever

DESIGN

- Adaptive optical system for maximum utilization of the LED performance
 Unique Sealing Technique silicon sealing for prism installation using a special designed robotic assembly line
 Ultra-Durable Structure aluminum alloy housing with UV-resistant PC

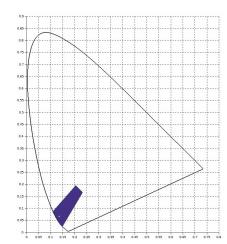
SERVICE LIFE

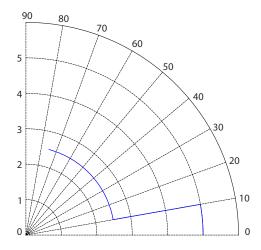
- LED Lifetime > 80,000 Hours
- Overall Design Life > 10 Years

REGULATION

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- Aerodrome Design ManualCAAC-AC-137-CA-2015-01 04
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COLOR COORDINATES



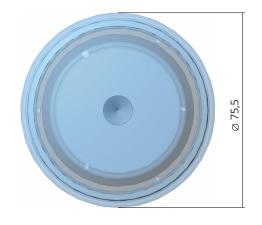


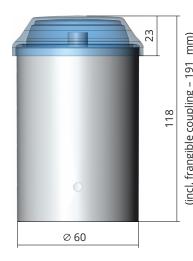
TECHNICAL DATA

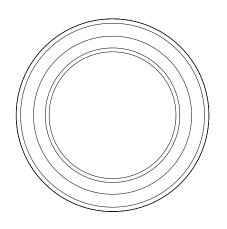
Mechanics	echanics			
Diameter	75.5mm			
Height	118mm (incl. frangible coupling – 191 mm)			
Net Weight	0.66kg			
Packing Dimensions	245 x 245 x 135mm (2 in 1 package)			
Gross Weight	1.5kg (2 in 1 package)			
Environmental				

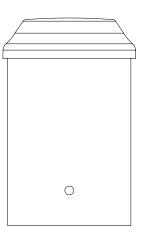
	nvironmental		
	Operating Temperature	-50°C – +55°C (Device must be always active)	
	Storage Temperature	-40°C – +85°C	
	Solar Radiation	1.5kW/m²	
Р	Protection Class (Dust/Liquids)	IP68 (IEC69598-1)	
	Humidity	0 – 100%	

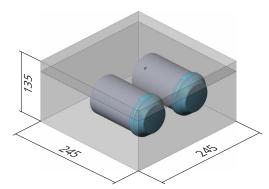
Electrical				
FAA L823 Style 1 Connector				
2.8 – 6.6Aeff AC				
Ipeak max = 9.88A				
Ipeak max = 12.60A, φmin = 45° >0.97				
			Blue	<3.0W
Emission	IEC 61000-2			
Immunity	IEC 61000-4			
	2.8 – 6.6Aeff AC Ipeak max = 9.88A Ipeak max = 12.60A, φmin = 45° >0.97 Blue Emission			









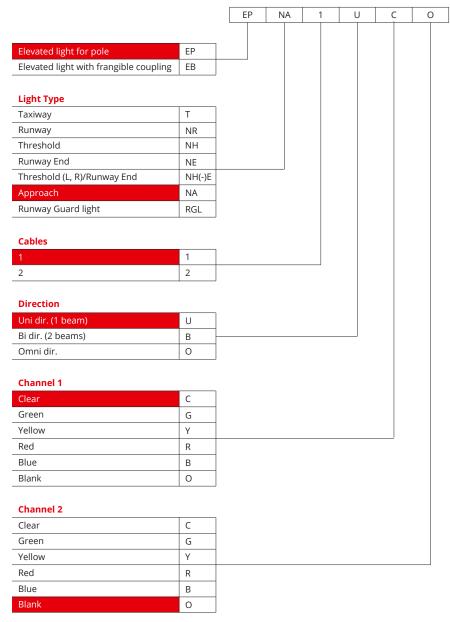


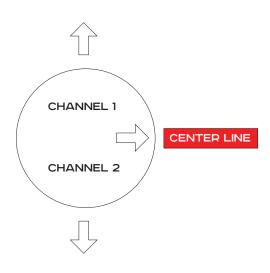
PACKAGE DIMENSIONS

Net Weight: 0.66kg Gross Weight: 1.5kg

ORDER CODES

ORDER EXAMPLE





OUR AIRPORT'S ORDER CODES

APPLICATION	ORDER CODES				
Runway Edge					
Runway End					
Threshold					
Approach					
Taxiway Edge					

OPTIONS

ACCESSORIES AND INSTALLATION MATERIALS

BASE PLATES, SHALLOW BASES AND ADAPTOR RINGS

INTERTEC'S airfield lighting program also includes a complete range of base plates, shallow bases and adaptor rings. With our specially designed adaptor rings, it is possible to reduce the propulsion of the inset lights, so it is flush with the surface to minimize damage from snow ploughs, push-back vehicles, etc.

BOLTS & WASHERS

During installation and maintenance, everything from missing one of the two washers, no washer at all, wrong sided assembly or even no screw at all, can occur. With this in mind, and based on actual incidents, The Federal Aviation Administration (FAA) announced in their CertAlert referring to AC 150/5340-26, 30 and EB 83 that "... it is highly recommended to use safety washers and screws in a color not commonly used in airports". Based on this statement and a few more steps towards Poka Yoke & Continuous Improvements practice, we have developed a combined bolt & washer solution, which can make the difference between a major incident or no incidents at all.

CABLES AND TRANSFORMERS

Regardless of size and dimensions, INTERTEC supplies a full range of cables and transformers to suit the project and the installation.

CONSTANT CURRENT REGULATOR

The Constant Current Regulators (CCR) are built with a high degree of reliability which results in a low level of maintenance. The CCR's are fitted with the latest technology and are ideal solutions for both LED applications as well as conventional lamps.

CONTROL SYSTEM

INTERTEC AIRPORT DIVISION supplies, installs and services high quality communication systems, such as:

- Control systems integrating airside equipment such as NAV/COM, MET, AGL, AFTN, ATIS, etc.
- Airfield remote control and monitoring systems, ARCAMS
- Individual lamp control and monitoring systems, ILCAMS
- · Pilot activated lighting, PAL
- Preventive maintenance systems
- Event and alarm systems

With airfield remote control and monitoring systems, ARCAMS, it is possible to control and monitor the airfield ground lighting (AGL) systems. Combined with an individual lamp control and monitoring system, ILCAMS, the lighting system can be monitored and controlled individually, which ensures fast maintenance and thus improves efficient operation of the airport.

With pilot activated lighting, PAL, aircraft pilots are able to control the lighting of an airport. Via radio, the pilot can turn on the airfield lights and select different intensity steps by keying the microphone of the aircraft communication transmitter in intervals.

INSTALLATION AND SERVICE

INTERTEC AIRPORT DIVISION has many years' experience within a wide range of technical airport installations in both the Scandinavian and international markets.

Our installations include equipment and services essential for modern airport operations such as airfield lighting, MET systems, NAV-Aids, remote control systems, power supply and distribution as well as communication networks.

INTERTEC can provide the following additional services for our airfield lighting turnkey projects:

- Sequential flash light systems
- Tailor made lamp solutions
- Solar powered airfield lighting
- Frangible masts for approach, wind cone, etc.

Furthermore, INTERTEC can provide tailor made service solutions to ensure that the installation is well maintained and performing according to the specifications.

PLEASE DO NOT HESITATE TO CONTACT US IF YOU HAVE ANY ADDITIONAL REQUIREMENTS, SO WE CAN PROPOSE A SOLUTION THAT MEETS YOUR EXPECTATIONS.



