

Application

The DHTK tank light is designed for use in environments where flammable vapors and gases are present, as well as harsh conditions such as vibration, dust, moisture, and corrosive atmospheres.

Specification

Body material	: Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey) (optional offshore painting-acrylic polyurethane coating)
Lens	: Heat and high impact resistant clear glass (4J impact)
Bolts	: Stainless steel, SS 304 (optional SS 316)
Mounting	: Hot-dip galvanized steel (optional SS 304 or SS 316)

Product Features

Luminous efficacy	: 100 lm/W
Colour temperature	: Standard 5,700 K (daylight)
Colour Rendering Index (Ra)	: ≥ 70 (optional Ra ≥ 80)
Chip	: Cree 3535
Beam angle	: Average 25°

Fixture Life

- L70 - Rated lifetime of 72,000 hours at ambient temperatures of 105°C.
- L80 - Rated lifetime of 60,400 hours at ambient temperatures of 105°C.
- L90 - Rated lifetime of 29,700 hours at ambient temperatures of 105°C.



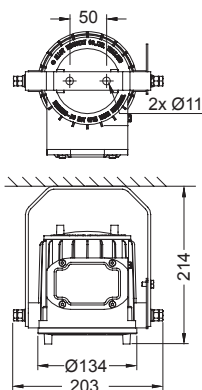
Ceiling Mounting



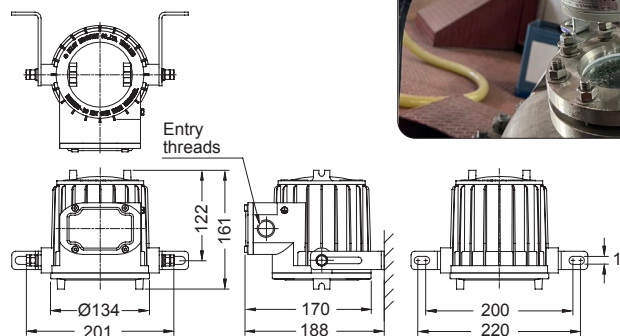
Bracket Mounting

Dimensions (in mm)

Ceiling mount



Bracket mount



Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex db eb IIC 2G	Ex tb IIIC 2D
Symbol of Protection	Ex db eb IIC T6 Gb	Ex tb IIIC T80°C Db
Certificate	TÜV CY 24 ATEX 0207184X	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31	
Ambient Temperature	-40°C to +60°C	
Index of Protection	IP66/IP67	
Entry Threads	1-hole standard (M20x1.5, M25x1.5, 1/2" NPT or 3/4" NPT), 2-holes are optional	
Mounting	Ceiling or Bracket mounting	
Connection	L, N and PE ; for 1-4 mm² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	12/24 V AC/DC or 110-240 V AC, 50/60 Hz	

Catalogue Number Logic

Series	LED power (see ordering requirement table below)	Voltage	Mounting type	Entry threads	Option
		22A 110-240 V AC, 50/60 Hz	C Ceiling	M1 M20x1.5	57 5,700 K
		12D 12 V AC/DC	B Bracket	M2 M25x1.5	30 3,000 K
		24D 24 V AC/DC		N1 1/2" NPT	65 6,500 K
				N2 3/4" NPT	

Ordering Requirements

Cat. No.	LED power	Voltage	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Approx. weight (kg)
			Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C	
DHTK-1022A-○-□□-○	10 W	110-240 V AC, 50/60 Hz	T6	T6	T80°C	T80°C	3.13
DHTK-1522A-○-□□-○	15 W		T6	T6	T80°C	T80°C	3.13
DHTK-1012D-○-□□-○	10 W	12 V AC/DC	T6	T6	T80°C	T80°C	3.13
DHTK-1024D-○-□□-○	10 W	24 V AC/DC	T6	T6	T80°C	T80°C	3.13

Remark * : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause to higher surface temperature.