

Lighting: H.I.D. (High Intensity Discharge) Lighting Fixture, DLF1-MV, DLF1-PS, DLF1-MH Series

Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Specification

Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey) (optional offshore painting- acrylic polyurethane coating)

Glass globe : Borosilicate glass

Sealing (O-ring) : Silicone

Bracket : Hot-dip galvanized steel (optional SUS 304 or SUS 316)

Bolts : Stainless steel, SUS 304 (optional; SUS 316)

Reflector : Anodized aluminium

Basket guard : Stainless steel, SUS 304 (optional SUS 316)

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex II 2G	Ex II 2D
Symbol of Protection	Ex db eb IIC T** Gb	Ex tb IIIC T** °C Db
Certificate No.	TÜV CY 18 ATEX 0206011X	
Conformity to standards	EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/ A1:2018, EN 60079-31:2014	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entries	2- M20x1.5, 2- M25x1.5 (1-stopping plug) or 2- 1/2" NPT, 2- 3/4" NPT (1-stopping plug)	
Mounting	Ceiling or Bracket mounting (standard) (Optional mounting ; 2- M10 eye bolts, clamps for pipe)	
Connection	L, N and PE ; for 1-4mm. ² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	220/ 230/ 240V.ac ±5% 50/60Hz.	

Catalogue Number Logic

DLF1 - [Series] [Type] [Lamp Watt] [Ignitor] [Voltage] [Optional] [Accessories] [Mounting] [Entries]

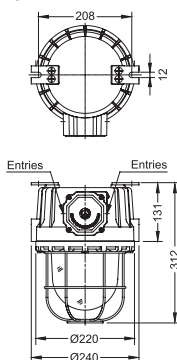
Series	Type	Lamp Watt	Ignitor	Voltage	Optional	Accessories	Mounting	Entries
MV	Mercury Vapour	070 70W.	none	22 220V.ac 50Hz.	A Alternate Control gear	R Reflector G Basket guard	C Ceiling B Bracket	M1 M20x1.5 M2 M25x1.5 N1 1/2" NPT N2 3/4" NPT
PS	High Pressure Sodium	080 80W. 100 100W. 125 125W.	I Internal Ignitor (Lamp)	23 230V.ac 50Hz.				
MH	Metal halide							

** See temperature class on catalogue number table.

Ordering Requirements and Dimension

Cat. No.	Lamp Watt	Voltage	Control Gear (Lamp/ Ballast/ Ignitor)	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Wiring Diagram	Approx. Weight (kgs.)
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C		
Mercury Vapor Lamp									
DLF1-MV-080 22	80W.	220V.ac 50Hz.	HPL-N 80W / Q80.587 / -	T5	T4	T100°C	T135°C	Dia-B	8.7
DLF1-MV-080 22A			HPL-N 80W / OMB80-35 / -	T5	T5	T100°C	T100°C	Dia-B	
DLF1-MV-125 22	125W.		HPL-N 125W / Q125.549 / -	T5	T4	T100°C	T135°C	Dia-B	
DLF1-MV-080 23	80W.	230V.ac 50Hz.	HPL-N 80W / Q80.588 / -	T5	T5	T100°C	T100°C	Dia-B	
DLF1-MV-125 23	125W.		HPL-N 125W / Q125.568 / -	T4	T4	T135°C	T135°C	Dia-B	
High Pressure Sodium Lamp									
DLF1-PS-070I 22	70W.	220V.ac 50Hz.	SON-70WI / NaHJ70.320 / -	T5	T5	T100°C	T100°C	Dia-B	8.7
DLF1-PS-070I 23		230V.ac 50Hz.	SON-70WI / NaHJ70.158 / -	T5	T4	T100°C	T135°C	Dia-B	
DLF1-PS-070 23			SON-70W / NaHJ70.158 / Z400M	T5	T4	T100°C	T135°C	Dia-A	
Metal Halide Lamp									
DLF1-MH-070 22	70W.	220V.ac 50Hz.	MH 70W / NaHJ70.320 / Z400M	T5	T4	T100°C	T135°C	Dia-A	8.9
DLF1-MH-070 22A			MH 70W / OMS 70-T35 / Z400M	T5	T5	T100°C	T100°C	Dia-A	
DLF1-MH-100 22	100W.		MH 100W / OMS 100 / Z400M	T5	T4	T100°C	T135°C	Dia-A	
DLF1-MH-070 23	70W.	230V.ac 50Hz.	MH 70W / NaHJ70.128 / Z400M	T5	T4	T100°C	T135°C	Dia-A	

Ceiling mount



Bracket mount

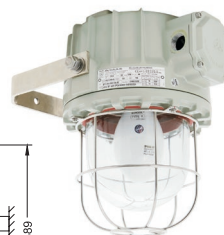
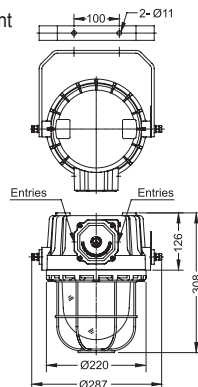


Diagram-A

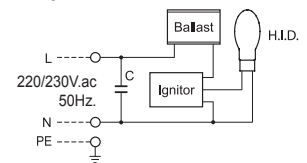
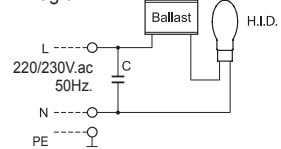


Diagram-B



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.