

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 SS 304 or SS 316)
Bolts	: Stainless steel, SS 304 (optional; SS 316)
Reflector	: Anodized aluminium
Basket guard	: Stainless steel, SS 304 (optional SS 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	TÜV CY 18 ATEX 0206011X	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entry Threads	2x M20x1.5, 2x M25x1.5 (1x stopping plug) or 2x 1/2" NPT, 2x 3/4" NPT (1x stopping plug)	
Mounting	Ceiling or Bracket mounting (standard) (Optional mounting : 2x M10 eye bolts, clamps for pipe)	
Connection	L, N and PE ; for 1-4 mm ² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	220/ 230/ 240 V AC ±5%, 50/60 Hz	

Catalogue Number Logic

Series	Type	Lamp watt	Ignitor	Voltage	Optional	Accessories	Mounting type	Entry threads
MV	Mercury vapour	070 70 W	none	22 220 V AC, 50 Hz	A Alternate Control gear	R Reflector	C Ceiling	M1 M20x1.5
PS	High pressure sodium	080 80 W	External ignitor (Z400M)	23 230 V AC, 50 Hz		G Basket guard	B Bracket	M2 M25x1.5
MH	Metal halide	100 100 W	I Internal ignitor (Lamp)					N1 1/2" NPT
		125 125 W						N2 3/4" NPT

Ordering Requirements and Dimensions

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 (kg)
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C		
Mercury vapor lamp									
DLF1-MV-080 22	80 W	220 V AC, 50 Hz	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	125 W		HPL-N 125W / Q125.549 / –	T5	T4	T100°C	T135°C	Dia-B	
DLF1-MV-080 23	80 W	230 V AC, 50 Hz	HPL-N 80W / Q80.588 / –	T5	T5	T100°C	T100°C	Dia-B	
DLF1-MV-125 23	125 W		HPL-N 125W / Q125.568 / –	T4	T4	T135°C	T135°C	Dia-B	
High pressure sodium lamp									
DLF1-PS-070I 22	70 W	220 V AC, 50 Hz	SON-70WI / NaHJ70.320 / –	T5	T5	T100°C	T100°C	Dia-B	8.7
DLF1-PS-070I 23		230 V AC, 50 Hz	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	70 W	220 V AC, 50 Hz	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	100 W		MH 100W / OMS 100 / Z400M	T5	T4	T100°C	T135°C	Dia-A	
DLF1-MH-070 23	70 W	230 V AC, 50 Hz	MH 70W / NaHJ70.128 / Z400M	T5	T4	T100°C	T135°C	Dia-A	

Ceiling mount

Bracket mount

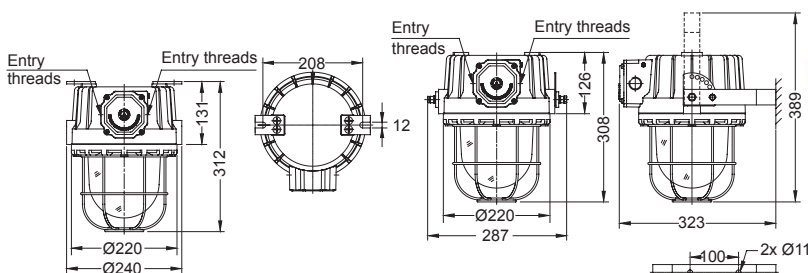


Diagram-A

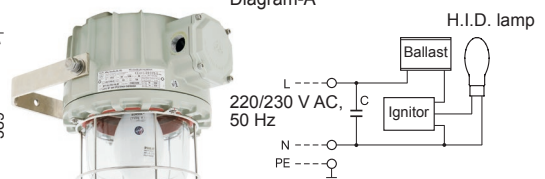
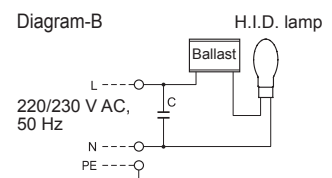


Diagram-B



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.