Lighting: Floodlight, VFDM/ VFDS/ VFDH Series

Restricted Breathing and Dust protection by enclosure

Zone 2 – 21 & 22

Application

VFD series has been designed for zone 2 and zone 21, 22

Efficient floodlights for large areas such as industrial complexes and ship loading areas and/or hazardous areas.

Specification

Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)
Lens : Heat and impact resistant clear glass
Bolts : Stainless steel, SUS 304
Bracket : Hot-dip galvanized steel
Internal reflector : Anodized aluminium
Sealing (O-ring) : Silicone

Technical Data

Hazardous Area	Gas	Dust
Zones	2	21 & 22
Equipment Group/Category	II 3G	II 2D
Symbol of Protection	Ex nR IIC T** Gc	Ex tb IIIC T** °C Db
Conformity to standards	EN IEC 60079-0:2018, EN IEC 60079-15:2019,	
	EN 60079-31:2014	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	

Entries	1-hole standard (M20x1.5, M25x1.5, 1/2" NPT or 3/4" NPT), 2-holes are optional
Mounting	Bracket mounting
Connection	L, N and PE ; for 1-4mm.^{2} cable
Rated Voltage	220, 230V.ac ±5% 50Hz.

** See temperature class on catalogue number table.

Catalogue Number Logic

VFD ■ - ■■■ ■ - □□

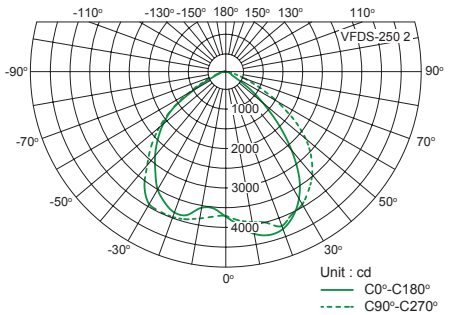
Series	
VFDM	Mercury Vapor
VFDS	High Pressure Sodium
VFDH	Metal Halide

Lamp Watt: (see ordering requirement table below)

Voltage	
2	220V.ac
3	230V.ac

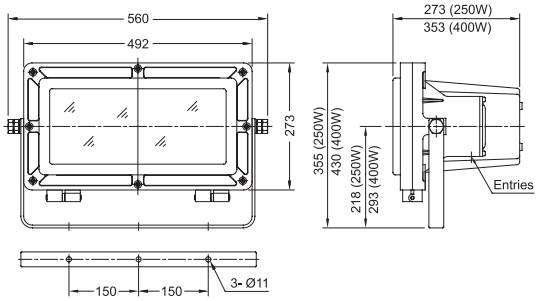
Entries			
M1	M20x1.5	N1	1/2" NPT
M2	M25x1.5	N2	3/4" NPT

Luminous Intensity Distribution Curve



Complete photometrics, please contact us.

Dimension



Wiring Diagram

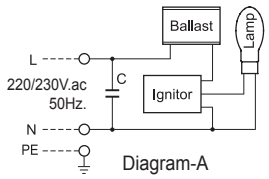


Diagram-A

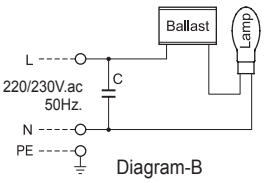


Diagram-B

Ordering Requirements

Cat. No.	Lamp Watt	Voltage	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									
VFDM-2502 -□□	250W.	220V.ac 50Hz.	HPL-N 250W / Q250.513 / –	T4	T3	T130°C	T160°C	Dia-B	24.5
VFDM-4002 -□□	400W.		HPL-N 400W / Q400.561 / –	T3	T3	T165°C	T180°C		27.2
VFDM-2503 -□□	250W.	230V.ac 50Hz.	HPL-N 250W / Q250.528 / –	T4	T3	T130°C	T165°C	Dia-B	24.5
High Pressure Sodium Lamp									
VFDS-2502 -□□	250W.	220V.ac 50Hz.	SON-T 250W / NaHJ250.160 / Z400M	T4	T3	T130°C	T160°C	Dia-A	24.5
VFDS-4002 -□□	400W.		SON-T 400W / NaHJ400.162 / Z400M	T3	T3	T160°C	T180°C		27.2
VFDS-4003 -□□	400W.	230V.ac 50Hz.	SON-T 400W / NaHJ400.006 / Z400M	T3	T3	T160°C	T180°C	Dia-A	27.2
Metal Halide Lamp									
VFDH-2502 -□□	250W.	220V.ac 50Hz.	HPI-T PLUS-250W / Q250.513 / Z400M	T4	T3	T135°C	T175°C	Dia-A	24.5
VFDH-4002 -□□	400W.		HPI-T PLUS-400W / Q400.561 / Z400M	T3	T3	T165°C	T180°C	Dia-A	27.2
VFDH-2503 -□□	250W.	230V.ac 50Hz.	HPI-T PLUS-250W / Q250.528 / Z400M	T4	T3	T135°C	T160°C	Dia-A	24.5

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.*

