

Lighting: H.I.D. (High Intensity Discharge) Lighting Fixture, DMV1, DPS1, DMH1 Series

Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

- H.I.D. lighting fixtures are used;
- In hazardous areas designated as Zone 1, Zone 2, Zone 21, and Zone 22.
 - In heavy process industries where flammable or explosive vapors, gases, or combustible dusts are present.
 - In petroleum refineries, chemical plants, petrochemical facilities, and other heavy process industry locations.

Specification

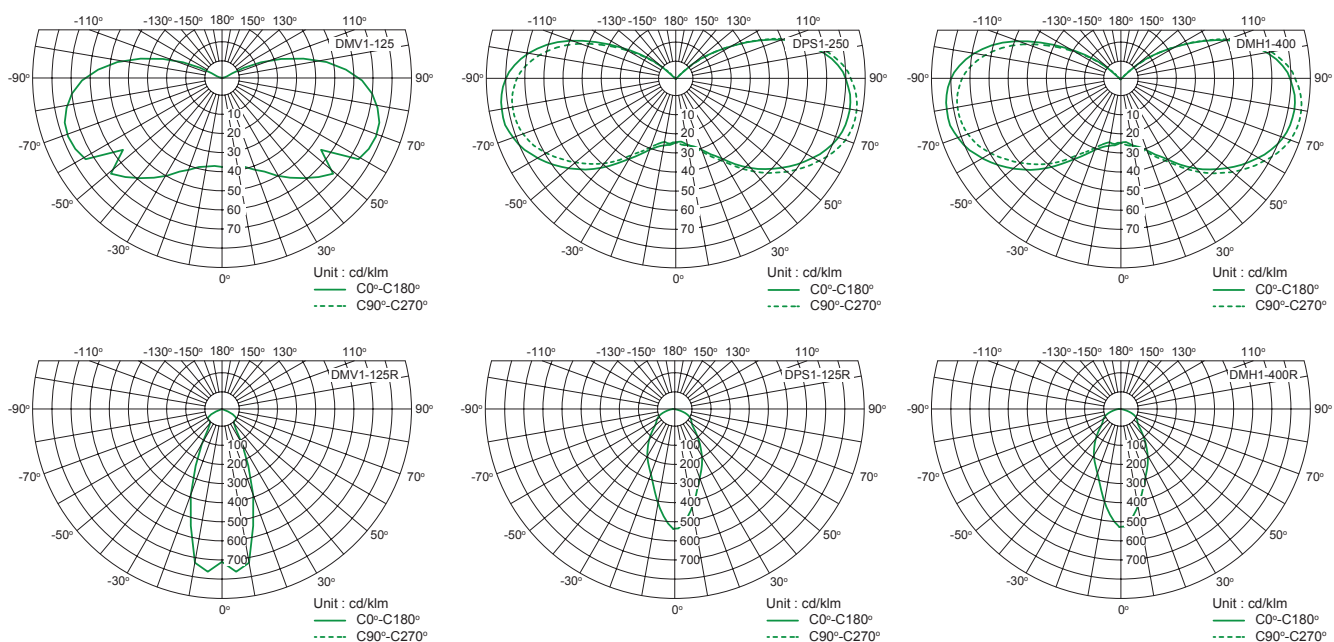
Body material :	Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey) (optional offshore painting-acrylic polyurethane coating)
Glass globe :	Borosilicate glass
Sealing (O-ring) :	Silicone
Bracket :	Hot-dip galvanized steel (optional; SS 304 or SS 316)
Bolts :	Stainless 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 tD II 2D
Symbol of Protection	Ex de IIB T3, T4 or T5	Ex tD A21 IP66 T200°C, T135°C or T100°C
Certificate	PTB 09 ATEX 1042X	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31	
Ambient Temperature	-20°C to +40°C/ +55°C	
Index of Protection	IP66	
Entry Threads	2x M20x1.5, 2x M25x1.5 (with 1x stopping plug) or 2x 1/2" NPT, 2x 3/4" NPT (with 1x stopping plug)	
Mounting	Ceiling or Bracket mounting (standard) (Optional mounting provided with 2x M10 eye bolts, clamps for, Ø2 inch pipe)	
Connections	L, N and PE ; for 1-4 mm ² cable (spring type terminal) (Through wiring system with an extra terminal block for cable connection at both ends.)	
Rated Voltage	220/ 230 V AC ±5%, 50 Hz	



Luminous Intensity Distribution Curve



Complete photometrics, please contact us.

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Catalogue Number Logic

Series	Lamp watt	Voltage	Accessories	Mounting type	Entry threads
DMV1	Mercury vapor	none 220 V AC	G Basket guard	C Ceiling	M1 M20x1.5 N1 1/2" NPT
DPS1	High pressure sodium	3 230 V AC	R Reflector	B Bracket	M2 M25x1.5 N2 3/4" NPT
DMH1	Metal halide				

Ordering Requirements and Dimensions

Cat. No.	Lamp watt	Voltage	Lamp/ Ballast/ Ignitor	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Wiring diagram
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C	
Mercury vapor lamp								
DMV1-80 - ○□ - □□	80 W	220 V AC, 50 Hz	HPL-N 80W / Q80.587 / –	T5	T4	T100°C	T135°C	Dia-B
			HPL-N 80W / OMB80-35 / –	T5	T5	T100°C	T100°C	Dia-B
DMV1-125 - ○□ - □□	125 W		HPL-N 125W / Q125.549 / –	T5	T4	T100°C	T135°C	Dia-B
DMV1-250 - ○□ - □□	250 W		HPL-N 250W / Q250.513 / –	T4	T4	T135°C	T135°C	Dia-B
DMV1-400 - ○□ - □□	400 W		HPL-N 400W / Q400.616 / –	T4	T3	T135°C	T200°C	Dia-B
DMV1-80 3 - ○□ - □□	80 W	230 V AC, 50 Hz	HPL-N 80W / Q80.588 / –	T5	T5	T100°C	T100°C	Dia-B
DMV1-125 3 - ○□ - □□	125 W		HPL-N 125W / Q125.568 / –	T4	T4	T135°C	T135°C	Dia-B
DMV1-250 3 - ○□ - □□	250 W		HPL-N 250W / Q250.528 / –	T4	T4	T135°C	T135°C	Dia-B
High pressure sodium lamp								
DPS1-70 - ○□ - □□	70 W	220 V AC, 50 Hz	SON-70WI / NaHJ70.320 / –	T5	T5	T100°C	T100°C	Dia-B
DPS1-150 - ○□ - □□	150 W		SON-150W / NaHJ150.355 / Z400M	T5	T5	T100°C	T100°C	Dia-A
DPS1-250 - ○□ - □□	250 W		SON-250W / NaHJ250.160 / Z400M	T4	T4	T135°C	T135°C	Dia-A
DPS1-400 - ○□ - □□	400 W		SON-400W / NaHJ400.162 / Z400M	T4	T3	T135°C	T200°C	Dia-A
DPS1-70I 3 - ○□ - □□	70 W	230 V AC, 50 Hz	SON-70WI / NaHJ70.158 / –	T5	T4	T100°C	T135°C	Dia-B
DPS1-70 3 - ○□ - □□	70 W		SON-70W / NaHJ70.158 / Z400M	T5	T4	T100°C	T135°C	Dia-A
DPS1-150 3 - ○□ - □□	150 W		SON-150W / NaHJ150.100.973 / Z400M	T5	T4	T100°C	T135°C	Dia-A
DPS1-400 3 - ○□ - □□	400 W		SON-400W / NaHJ400.006 / Z400M	T4	T3	T135°C	T200°C	Dia-A
Metal halide lamp								
DMH1-70 - ○□ - □□	70 W	220 V AC, 50 Hz	MH 70W / NaHJ70.320 / Z400M	T5	T4	T100°C	T135°C	Dia-A
			MH 70W / OMS 70-T35 / Z400M	T5	T5	T100°C	T100°C	Dia-A
DMH1-100 - ○□ - □□	100 W		MH 100W / OMS 100 / Z400M	T5	T4	T100°C	T135°C	Dia-A
DMH1-150 - ○□ - □□	150 W		MH 150W / OMS 150 / Z400M	T6	T5	T85°C	T100°C	Dia-A
DMH1-250 - ○□ - □□	250 W		HPI PLUS-250W BU / Q250.513 / Z400M	T4	T4	T135°C	T135°C	Dia-A
DMH1-400 - ○□ - □□	400 W	HPI PLUS-400W BU / Q400.616 / Z400M	T4	T3	T135°C	T200°C	Dia-A	
DMH1-70 3 - ○□ - □□	70 W	230 V AC, 50 Hz	MH 70W / NaHJ70.128 / Z400M	T5	T4	T100°C	T135°C	Dia-A
DMH1-250 3 - ○□ - □□	250 W		HPI PLUS-250W BU / Q250.528 / Z400M	T4	T4	T135°C	T135°C	Dia-A

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.

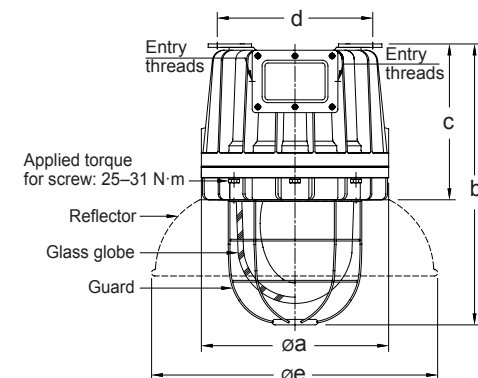


Diagram-A

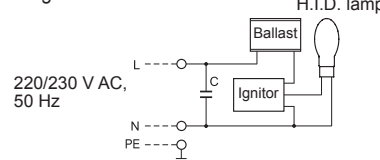
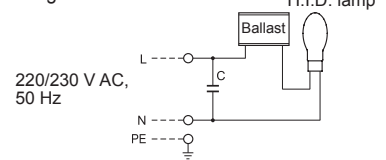


Diagram-B



Cat. No.	Dimensions in mm					Approx. weight (kg)
	øa	b	c	d	øe	
Mercury vapor lamp						
DMV1-80, DMV1-80 3, DMV1-125, DMV1-125 3	274	356	196	208	450	14.0
DMV1-250, DMV1-250 3	330	494	274	274	504	25.0
DMV1-400	330	494	274	274	504	25.5

Cat. No.	Dimensions in mm					Approx. weight (kg)
	øa	b	c	d	øe	
High pressure sodium lamp						
DPS1-70I, DPS1-70, DPS1-70 3	274	356	196	208	450	14.0
DPS1-150, DPS1-150 3	330	539	319	274	504	25.5
DPS1-250	330	539	319	274	504	27.5
DPS1-400, DPS1-400 3	330	539	319	274	504	28.5
Metal halide lamp						
DMH1-70, DMH1-70 3, DMH1-100	274	356	196	208	450	14.0
DMH1-150	330	494	274	274	504	25.0
DMH1-250, DMH1-250 3	330	539	319	274	504	25.0
DMH1-400	330	539	319	274	504	25.5

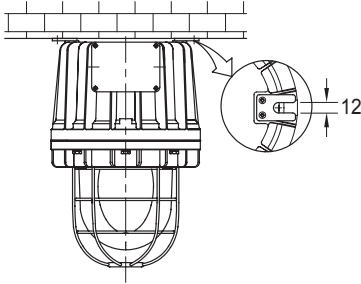
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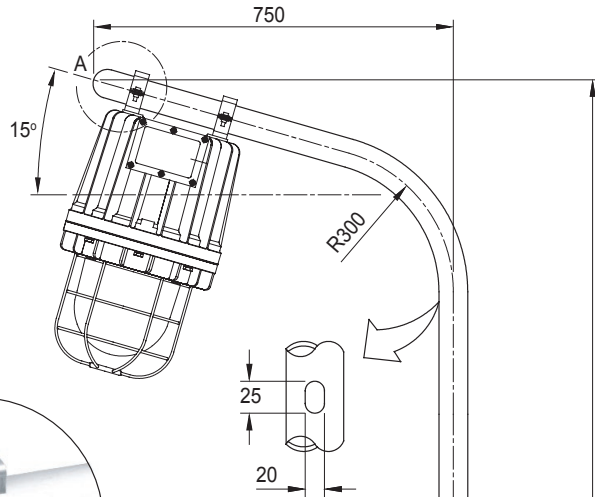
Zone 1 & 2 – 21 & 22

Installation Information

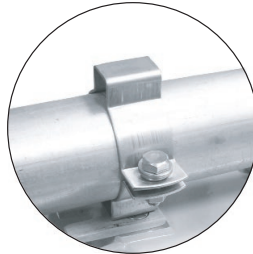
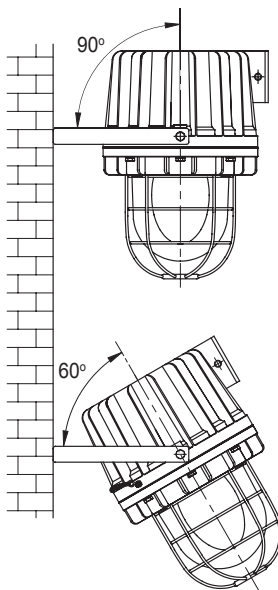
Ceiling mount



Pole mount

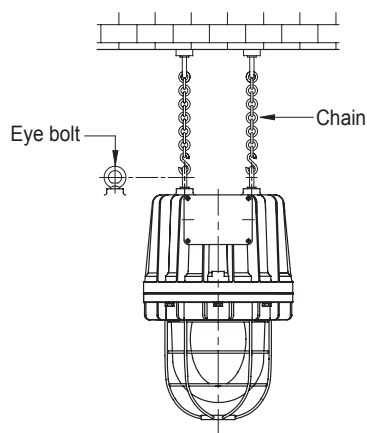


Bracket mount (or wall mount)

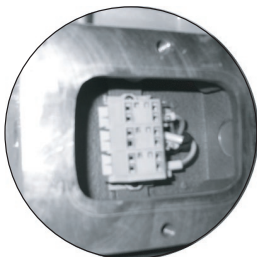


Detail-A

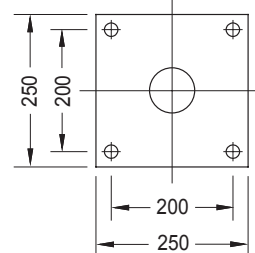
Suspension 2x M10 eye bolt



Connection



A terminal block is provided for 2P+PE, suitable for a 4 mm² incoming cable inside the connection box.



Specify

Pipe
(2 inches)