

Lighting: Fluorescent Lighting Fixture, DNGV Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

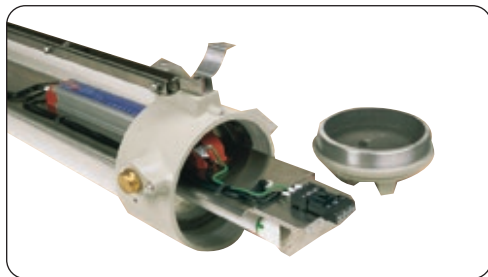


Application

The DNGV used for petroleum mining, oil refining, chemical industry, and other dangerous environment for general lighting and operational lighting.

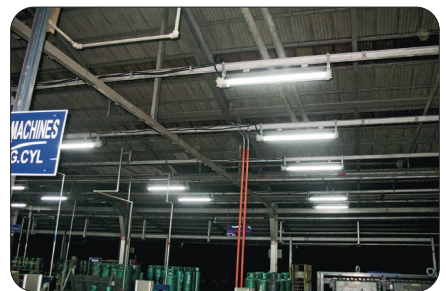
Specification

- Body material : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (Grey)
(optional offshore painting- acrylic polyurethane coating)
- Glass tube : Borosilicate glass (4J impact)
- Internal reflector : Stainless steel, SUS 304
(optional SUS 316)
- Sealing (O-ring) : Silicone

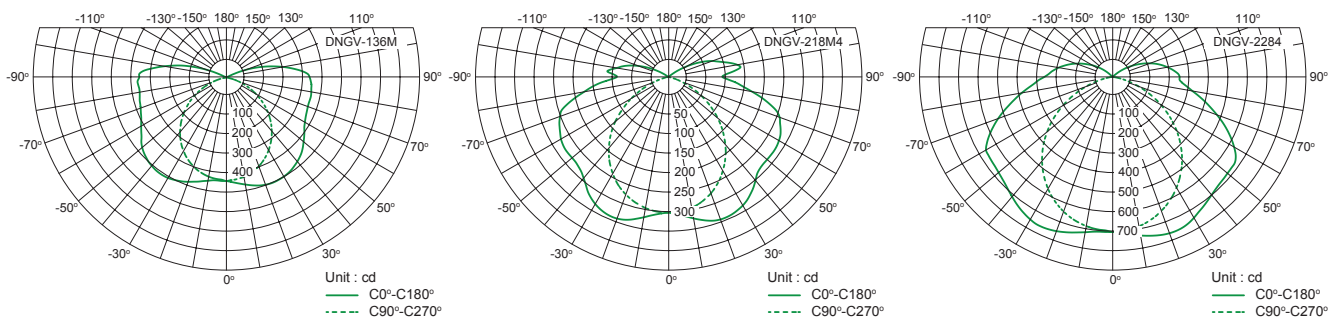


Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex II 2G	Ex II 2D
Symbol of Protection	Ex d IIB T4, T5 or T6	Ex tD A21 IP66 T135°C, T100°C or T85°C
Certificate No.	PTB 08 ATEX 1018	
Conformity to Standards	EN 60079-0:2006, EN 60079-1:2004, EN 61241-0:2006, EN 61241-1:2004	
Ambient Temperature	-20°C to +50°C/ +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 (standard), Pendant or Bracket	
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 50Hz. (P.F. ≥ 0.98)	



Luminous Intensity Distribution Curve



Complete photometrics, please contact us.

A

B

C

D

E

F

G

H



Lighting: Fluorescent Lighting Fixture, DNGV Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Catalogue Number Logic

DNGV - ■■■■ ■■■■ ■■■■ ■■■■ - ○ - □ - □

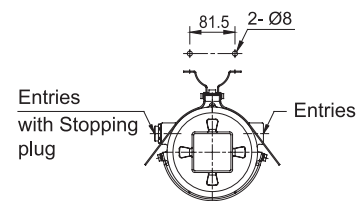
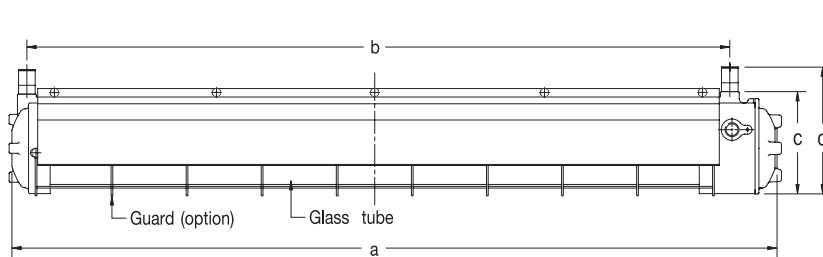
Series	Lamp Watt (see ordering requirement table below)	Ballast Type	Voltage	Accessories	Entries	Mounting
		none Electronic ballast M Electromagnetic ballast	none 220V.ac 3 220-230V.ac 4 220-240V.ac	G Protective guard R External reflector E Emergency unit	M1 M20x1.5 M2 M25x1.5 N1 1/2" NPT N2 3/4" NPT	C Ceiling (standard) C1 Ceiling (for pipe), Fixed C2 Ceiling (for pipe), Swing P1 Pendant (for chain) P2 Pendant (for pipe) B Bracket

Ordering Requirements and Dimension

Cat. No.	Lamp Watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)			Volume (cm ³)	Dimension in mm.				Approx. Weight (kgs.)					
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C	a		b	c	d							
T8 Fluorescent Lamp																			
DNGV-118M	- ○ - □ □ 1x 18W.	220V.ac	Electromagnetic "Philips"	T5	T4	T100°C	T135°C	17,090	759	657	184	228	9.10						
DNGV-218M	- ○ - □ □ 2x 18W.	50Hz.		T6	T5	T85°C	T100°C						9.35						
DNGV-136M	- ○ - □ □ 1x 36W.	220V.ac		Electromagnetic "Vossloh-Schwabe"	T5	T4	T100°C						T135°C	17,090	759	657	184	228	15.09
DNGV-236M	- ○ - □ □ 2x 36W.				50Hz.	T4	T4						T135°C						T135°C
DNGV-118M4	- ○ - □ □ 1x 18W.	220-240V.ac	Electromagnetic "Vossloh-Schwabe"	T4	T4	T135°C	T135°C	17,090	759	657	184	228	9.10						
DNGV-218M4	- ○ - □ □ 2x 18W.	50Hz.		T4	T4	T135°C	T135°C						9.35						
DNGV-136M4	- ○ - □ □ 1x 36W.	220-240V.ac		Electromagnetic "Vossloh-Schwabe"	T5	T4	T100°C						T135°C	17,090	759	657	184	228	15.09
DNGV-236M4	- ○ - □ □ 2x 36W.				50Hz.	T5	T4						T100°C						T135°C

Cat. No.	Lamp Watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)			Max. Surface Temp.* (for zone 21 & 22)			Volume (cm ³)	Dimension in mm.				Approx. Weight (kgs.)													
				Ta 40°C	Ta 50°C	Ta 55°C	Ta 40°C	Ta 50°C	Ta 55°C		a	b	c	d														
T5 Fluorescent Lamp																												
DNGV-1144	- ○ - □ □ 1x 14W.	220-240V.ac	Electronic "Vossloh-Schwabe" (ELXc)	T6	-	T6	T85°C	-	T85°C	17,090	759	657	184	228	12.09													
DNGV-2144	- ○ - □ □ 2x 14W.	50/60Hz.													12.28													
DNGV-1284	- ○ - □ □ 1x 28W.	220-230V.ac													Electronic "Philips" (EB-E)	T6	T6	-	T85°C	T85°C	-	17,090	759	657	184	228	15.45	
DNGV-2284	- ○ - □ □ 2x 28W.																										50Hz.	16.05
DNGV-1143	- ○ - □ □ 1x 14W.	220-230V.ac	Electronic "Philips" (EB-E)	T6	T6	-	T85°C	T85°C	-	17,090	759	657	184	228	12.09													
DNGV-2143	- ○ - □ □ 2x 14W.														50Hz.	12.28												
DNGV-1283	- ○ - □ □ 1x 28W.														220-230V.ac	Electronic "Philips" (EB-E)	T6	T6	-	T85°C	T85°C	-	17,090	759	657	184	228	15.45
DNGV-2283	- ○ - □ □ 2x 28W.																											50Hz.

Lighting source; cool white (6500K) are standard and/or warm white (3000K), please specify.



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.

Lighting: Fluorescent Lighting Fixture, DNGV Series

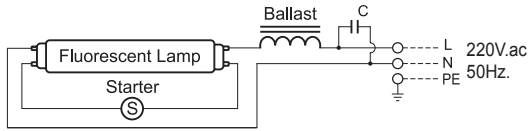
Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

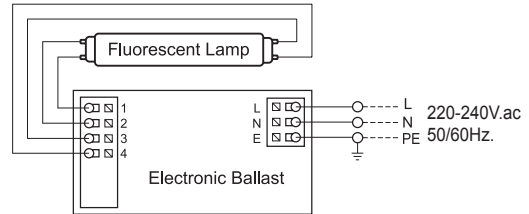


Wiring Diagram

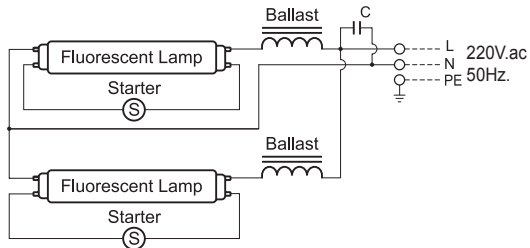
Electromagnetic ballast for fluorescent lamp;
1 x 14W., 1 x 28W., 1 x 18W. and 1 x 36W.



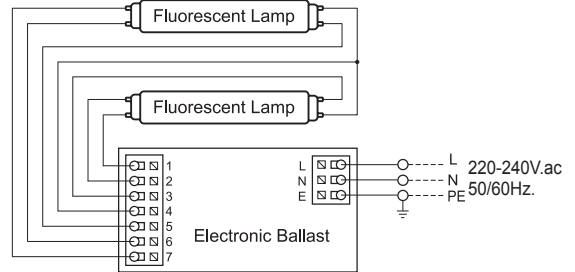
Electronic ballast for fluorescent lamp;
1 x 14W., 1 x 28W., 1 x 18W. and 1 x 36W.



Electromagnetic ballast for fluorescent lamp;
2x 14W., 2x 28W., 2x 18W. and 2x 36W.

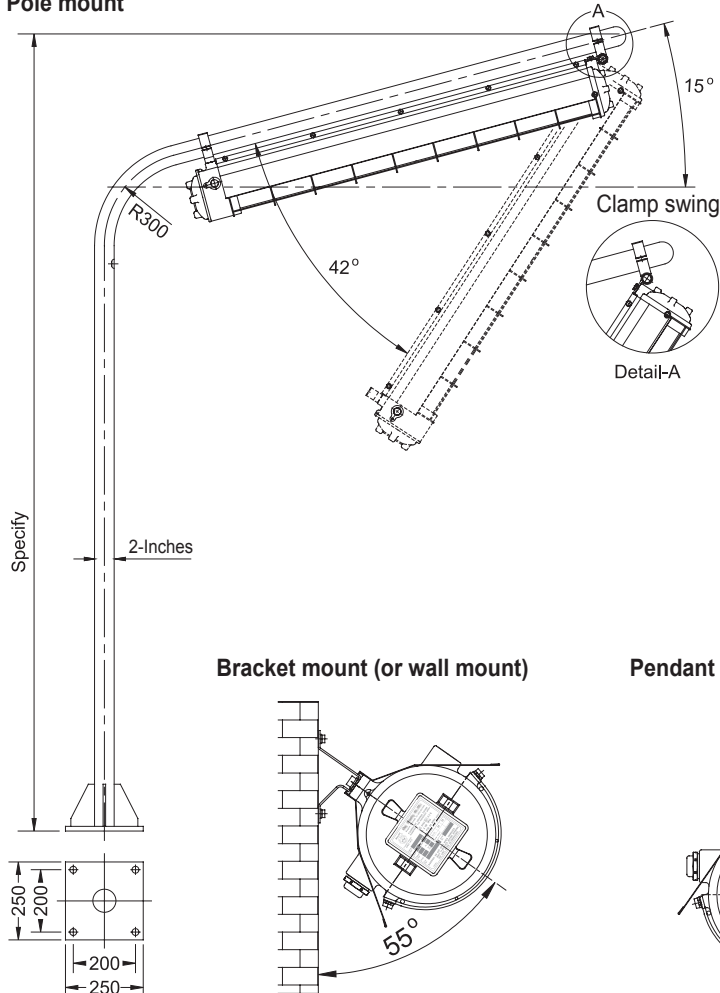


Electronic ballast for fluorescent lamp;
2x 14W., 2x 28W., 2x 18W. and 2x 36W.

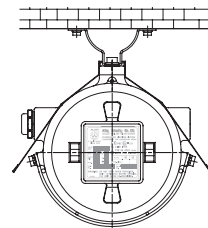


Installation Information

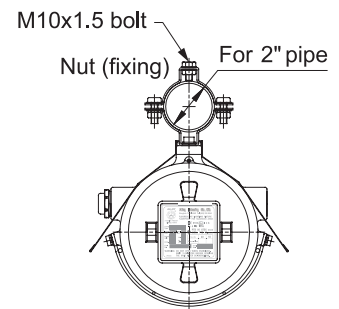
Pole mount



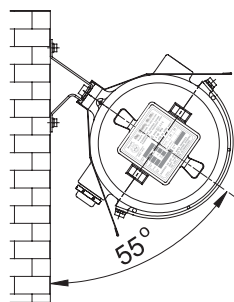
Ceiling mount (standard)



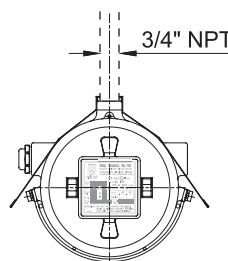
Ceiling mount (for pipe)



Bracket mount (or wall mount)



Pendant mount (for pipe)



Pendant mount (for chain)

