

Lighting: Fluorescent Lighting Fixture, DNGV Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

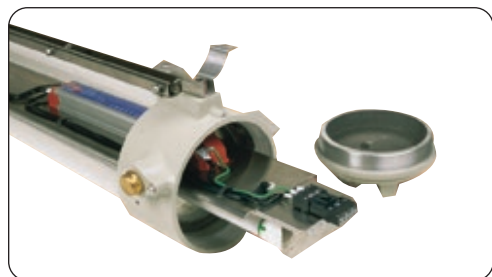


Application

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

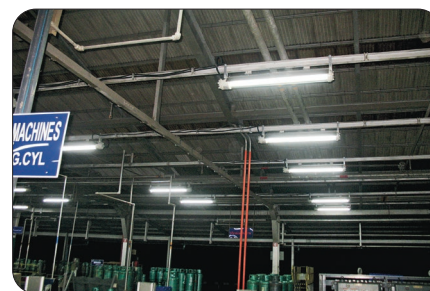
Specification

- 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, SS 304 (optional SS 316)
- Sealing (O-ring) : Silicone

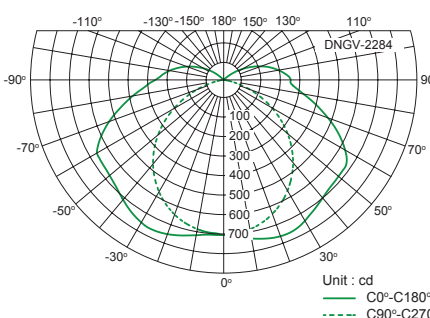
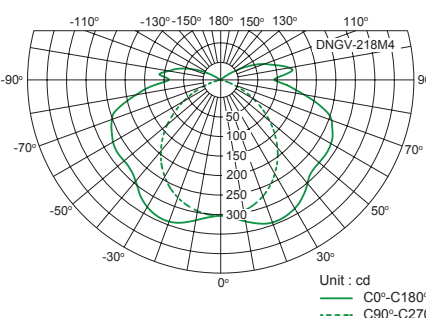
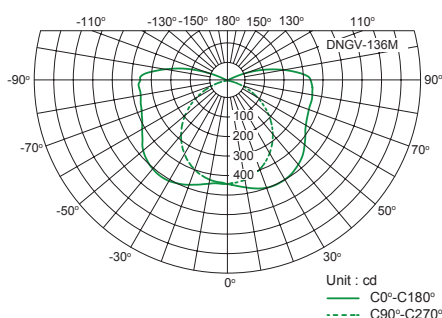


Technical Data

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	PTB 08 ATEX 1018	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31	
Ambient Temperature	-20°C to +50°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 (standard), Pendant or Bracket	
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 (P.F. ≥ 0.98)	



Luminous Intensity Distribution Curve



Complete photometrics, please contact us.

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Catalogue Number Logic

DNGV - ■ ■ ■ ■ ■

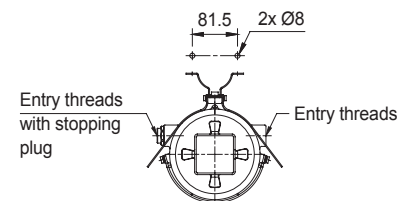
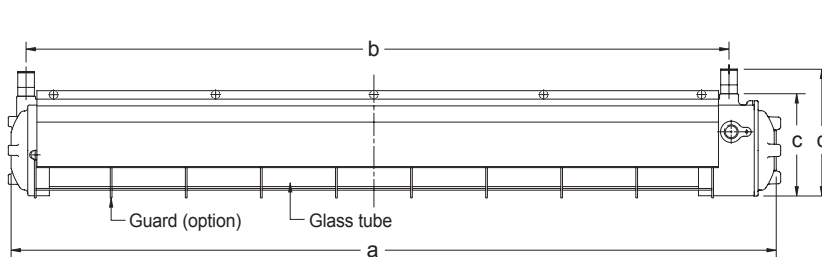
Series	Lamp watt (see ordering requirement table below)	Ballast type	Voltage	Accessories	Entry threads	Mounting type
		none Electronic ballast M Electromagnetic ballast	none 220 V AC 3 220-230 V AC 4 220-240 V AC	G Protective guard R External reflector	M1 M20x1.5 M2 M25x1.5 N1 1/2" NPT N2 3/4" NPT	C 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 Dimensions

Cat. No.	Lamp watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Volume (cm³)	Dimensions in mm				Approx. weight (kg)	
				Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C		a	b	c	d		
T8 fluorescent lamp														
DNGV-118M - ○ - □□	1x 18 W	220 V AC, 50 Hz	Electromagnetic "Philips"	T5	T4	T100°C	T135°C	17,090	759	657	184	228	9.10	
DNGV-218M - ○ - □□	2x 18 W												9.35	
DNGV-136M - ○ - □□	1x 36 W												15.09	
DNGV-236M - ○ - □□	2x 36 W												15.55	
DNGV-118M - ○ - □□	1x 18 W	220 V AC, 50 Hz	Electromagnetic "Vossloh-Schwabe"	T5	T4	T100°C	T135°C	17,090	759	657	184	228	9.10	
DNGV-218M - ○ - □□	2x 18 W			T4	T4	T135°C	T135°C						9.35	
DNGV-136M - ○ - □□	1x 36 W												15.09	
DNGV-236M - ○ - □□	2x 36 W													15.55
DNGV-118M4 - ○ - □□	1x 18 W	220-240 V AC, 50 Hz	Electromagnetic "Vossloh-Schwabe"	T4	T4	T135°C	T135°C	17,090	759	657	184	228	9.10	
DNGV-218M4 - ○ - □□	2x 18 W												9.35	
DNGV-136M4 - ○ - □□	1x 36 W												15.09	
DNGV-236M4 - ○ - □□	2x 36 W												15.55	

Cat. No.	Lamp watt	Voltage	Ballast	Temp. Class (for zone 1 & 2)			Max. Surface Temp.* (for zone 21 & 22)			Volume (cm³)	Dimensions in mm				Approx. weight (kg)
				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 14 W	220-240 V AC, 50/60 Hz	Electronic “Vossloh- Schwabe” (ELXc)	T6	—	T6	T85°C	—	T85°C	17,090	759	657	184	228	12.09
DNGV-2144 - ○-□□	2x 14 W										12.28				
DNGV-1284 - ○-□□	1x 28 W										15.45				
DNGV-2284 - ○-□□	2x 28 W										16.05				
DNGV-1143 - ○-□□	1x 14 W	220-230 V AC, 50 Hz	Electronic “Philips” (EB-E)	T6	T6	—	T85°C	T85°C	—	17,090	759	657	184	228	12.09
DNGV-2143 - ○-□□	2x 14 W										12.28				
DNGV-1283 - ○-□□	1x 28 W										15.45				
DNGV-2283 - ○-□□	2x 28 W										16.05				

Lighting source; daylight (6,500 K) are standard and/or warm white (3,000 K), 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.

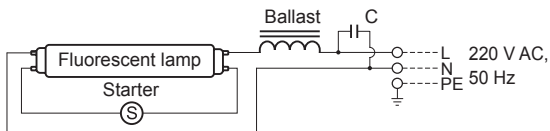
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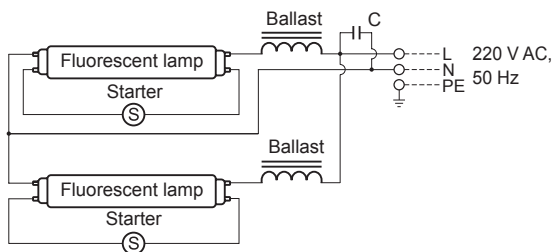
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Wiring Diagram

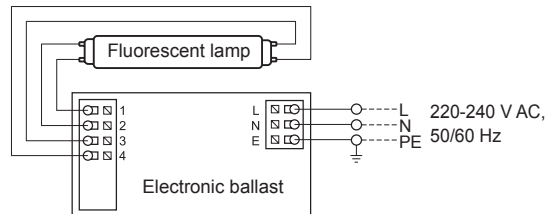
Electromagnetic ballast for fluorescent lamp;
1 x 14 W, 1x 28 W, 1x 18 W and 1x 36 W



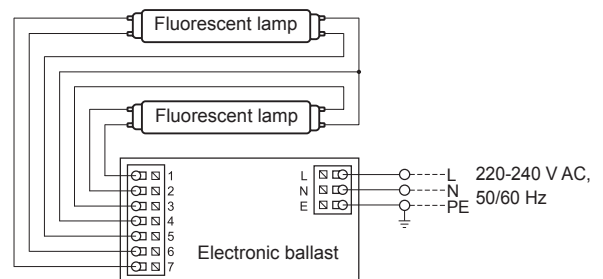
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Electronic ballast for fluorescent lamp;
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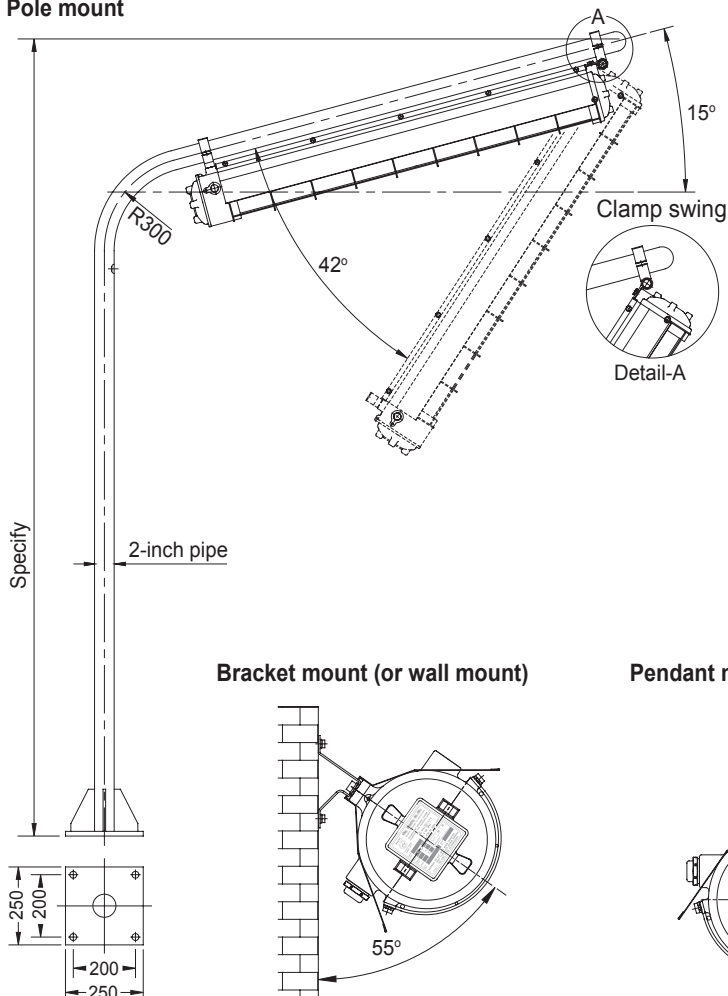


Electronic ballast for fluorescent lamp;
2x 14 W, 2x 28 W, 2x 18 W and 2x 36 W

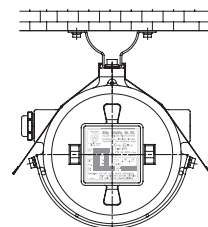


Installation Information

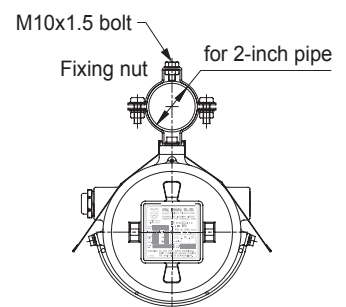
Pole mount



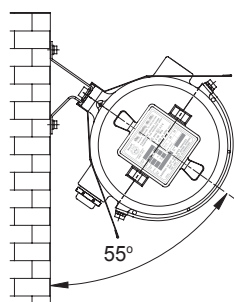
Ceiling mount (standard)



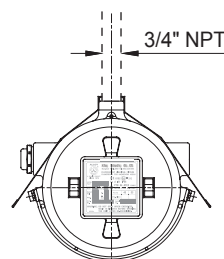
Ceiling mount (for pipe)



Bracket mount (or wall mount)



Pendant mount (for pipe)



Pendant mount (for chain)

