

Lighting: Incandescent & HID Lighting
LDP Series: Wellglass Luminaires – Flameproof



LDP2M20

Compliance Data:



ATEX - IEC:

Zone 1 & 2, 21 & 22	ATEX	II 2 GD	IEC	CE
Ex d IIC	T6 to T3	Ex tD A21	T85°C to T145°C	IP66 – IK08

Lamp Type and Watts:

Incandescent	Compact Fluorescent		Halogen	Mixed	
Up to 200 W	18 W to 25 W		70 W to 150 W	160 W	

Operating Temperature:

-40°C to +50°C

Lighting: Incandescent & HID Lighting

LDP Series: Wellglass Luminaires – Flameproof

Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK08

LIGHTING

Applications:

- For use in hazardous locations such as plants where plastics, paints, thinners and petrochemicals are manufactured.
- Ideal for street lighting on refinery sites or oil depots and for tank lighting purposes.

Features:

- Permissible lamps (not supplied):
 - 18 to 25 W compact fluorescent lamps
 - 70 to 150 W halogen lamps
 - up to 200 W incandescent lamps
 - up to 160 W mixed lamps
- E27 lamp holder.
- Threaded flame path.
- Connection to lampholder (2 x 2.5 mm²) or to terminal block (2 x 2.5 mm²) supplied for through-wiring application.

- Suspension via integrated eye bolt for side cable entry versions.
- Supplied with one blanking plug for side cable entry versions.

Standard Material of Fixtures:


- Gray painted marine grade aluminum alloy body and bezel.
- Internal aluminum reflector.





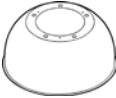
Side Cable Entry Version

Ordering Information:

Flameproof Wellglass Luminaires for Hazardous Areas – Ex d IIC – LDP Series

	Cable Entries	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number	Pack
	2 x M20 side entries	5	35.3	LDP2M20	094736	1
	2 x 3/4" NPT side entries	5	35.3	LDP2075	094737	1
	1 x 3/4" NPT top entry	5	35.5	LDP1075	094738	1

Accessories:

	Description	Weight (kg)	Volume (dm ³)	Catalog Number	Old Catalog Number	Pack
	Protective Guard Zinc plated steel protective guard	0.4	97	LDPG1Z	094773	1
	Hinged Bracket Zinc plated steel hinged bracket for installation on flat surface	1.4	3.5	LDPHBZ	094776	1
	External Reflector External white polyester reflector	3.2	97	LDER1P	094769	1

Lighting: Incandescent & HID Lighting

LDP Series: Wellglass Luminaires – Flameproof

Zone 1 & 2 - 21 & 22

II 2 GD

ATEX / IEC

IP66 - IK08

Compliances:

Hazardous Area	Gas	Dust
Certified Type	AB14	
Zones	1 – 2	21 – 22
Conforming to ATEX 94/9/CE	CE 0081 II 2 G	CE 0081 II 2 D
Symbol of Protection ATEX	Ex d IIC	Ex tD A21
Symbol of Protection IEC		
T rating	See table 1	–
Surface Temperature	–	See table 2
Ambient Temperature	-40°C to +50°C	
CE Declaration of Conformity	50231	
ATEX Certificate	LCIE 02 ATEX 6053	
IEC Certificate	LCIE Ex 02.004	
Other Certifications	GOST	
Index of Protection (solid & liquid)	IP66	
Impact Resistance (shock)	IK08	
Internal Volume (dm ³)	> 2 dm ³ (2 liters)	

Table 2: Surface Temperature for Dust

Power and Source	Ambient Temperature	
	Ta = +50°C	
	Surface Temperature	Cable Entry Temperature
18 W Compact Fluorescent	85°C	–
20 W Compact Fluorescent	85°C	–
25 W Compact Fluorescent	85°C	–
70 W Halogen	130°C	90°C
150 W Halogen	145°C	95°C
160 W Mixed	145°C	125°C
100 W Incandescent	145°C	125°C
200 W Incandescent	145°C	125°C

Standards:

EX Standards	EN / IEC 60079-0; 60079-1; 61241-0; 61241-1
Product Standards	EN / IEC 60598-1
EMC Standards	EN / IEC 55015; 61547
Other Standards	EN / IEC 60529 (IP); 62262 (IK)

Table 1: T Rating for Gas

Power and Source	Ambient Temperature			
	Ta = +40°C		Ta = +50°C	
	T Rating	Cable Entry Temperature	T Rating	Cable Entry Temperature
18 W Compact Fluor.	T6	–	T5	–
20 W Compact Fluor.	T6	–	T5	–
25 W Compact Fluor.	T6	–	T5	–
70 W Halogen	T4	–	T3	90°C
150 W Halogen	T4	85°C	T3	95°C
160 W Mixed	T4	115°C	T3	125°C
100 W Incandescent	T4	115°C	T3	125°C
200 W Incandescent	T4	115°C	T3	125°C

Photometric Data:

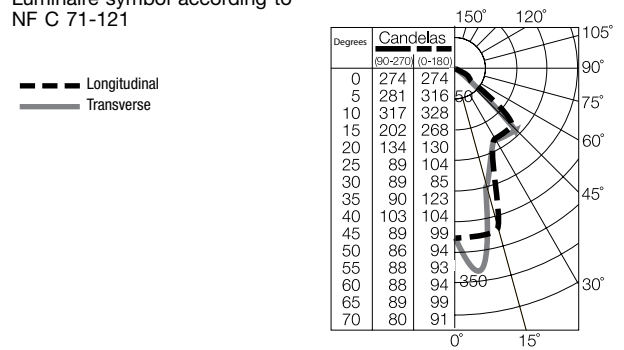
Polar curves for a 1000 lm flux, according to NF C 71-120

Luminaire symbol according to NF C 71-121

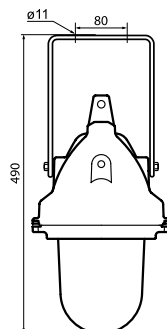
200 W incandescent

Efficiency 66.5%

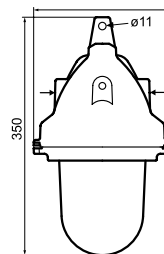
NF C 71-121: 0.60 H + 0.06 T



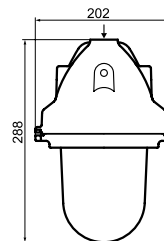
Dimensions (mm):



Side Cable Entries with Hinged Bracket



Side Cable Entries



Top Cable Entry