



The first waterproof LED fixture

# ECHO LED

Save 40% on energy costs! Find out how.



No  
maintenance

No  
Glare

Greater  
performance

**disano** 

illuminazione

[www.disano.it](http://www.disano.it)

# 927 Echo LED

## With LEDs and plug connector

Born from the experience of Disano, the first waterproof LED fixture benefits from the technology, engineering and reliability proven throughout the years by Disano, which has always been a global leader in the manufacturing of waterproof lighting fixtures.

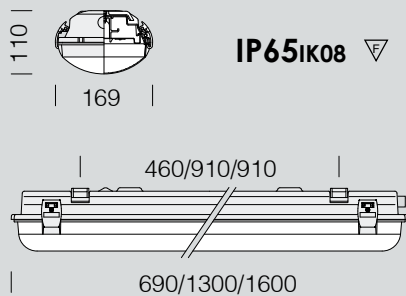
**Housing:** injection moulded, vandal resistant, self-extinguishing, UV stabilised RAL 7035 grey polycarbonate, high mechanical resistance. Wire-glow resistance 850C°.

**Diffuser:** injection moulded V2 self-extinguishing, UV stabilised clear polycarbonate, prismatic inside for better light control. The smooth outside finishing facilitates cleaning. Wire-glow resistance 850C°.

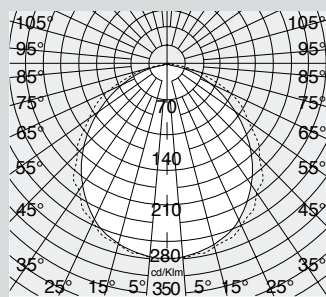
**Equipment:** plug connector. To buy separately socket connector (acc. 372).

**On request:** High performance version

### Dimensions



### Photometric distribution



### Efficiency, energy saving and security

- Isolation class I
- Quick connection with plug and socket, no need to open the fixture
- Allowable ambient temperature: -30°C a + 40°C
- Photobiological safety class: Exempt group
- Material compatible with food industry environments
- "Mounting is also possible at low or very low temperatures (instant start and no flux decay).

### 927 Echo LED

colour	weight	CLD CTL		CLD CTL-E	W tot	LED (Ta=25°C)	
		L	code	code		K - ølm	116mA - Ra
grey	1.10	690	164697-00	164697-07	<b>25W</b>	4000K	2740lm - Ra80
grey	2.00	1300	164698-00	164698-07	<b>44W</b>	4000K	4800lm - Ra80
grey	2.50	1600	164694-00	164694-07	<b>59W</b>	4000K	6400lm - Ra80



### LED

- Power factor:  $\geq 0,9$
- LED module efficiency: 109 lm/W
- Luminous flux: 2740 lm, 4800 lm, 6400 lm
- Power consumption: 28W - 49W - 65W
- Colour rendering index:  $\geq 80$
- Luminous flux maintenance 70%: 50000h
- Colour temperature: 4000 K (on request 3000K and 6000K)



acc. 372

#### Quick connector socket

gr. 998042-00

Always to be used for continuous line. Cable gland with inlet cable 16A min.  $\phi$  9 max  $\phi$ 12 mm.



#### No glare, LED = FL

Perfect luminous integration between the new LED technology and fluorescent lamps.



#### Standard spring loop

allows quick connection to any chain suspension system.

#### Standard steel mounting bracket

enables quick and easy installation of the fixture to ceiling surfaces.



#### Better performance

The polycarbonate used is transparent, prime quality and stabilised against UV rays. The process reduces glare but does not affect performance.



#### Continuous line alignment

Perfect alignment of the lighting fittings is achieved using moulded guiding notches.

# Project comparison: how to save over 40% on energy costs !

## example of lighting calculation

fixture	ballast	room	LUX	tot power input	Qty	Ptot	Savings compared to magnetic ballasts.	savings compared to electronic ballasts
<b>200 LUX</b>								
<b>927 ECHO 168 LED</b>	electronic	40m x 20m H 3,5m	211	65	40	2600	40%	27%
921 2X36W	electronic	40m x 20m H 3,5m	209	71	50	3550	-	-
920 2X36W	magnetic	40m x 20m H 3,5m	209	86	50	4300	-	-

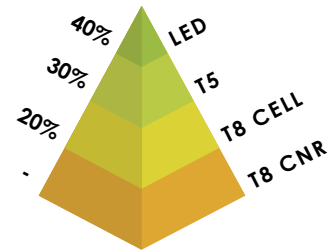
fixture	ballast	room	LUX	tot power input	Qty	Ptot	Savings compared to magnetic ballasts.	savings compared to electronic ballasts
<b>100 LUX</b>								
<b>927 ECHO 72 LED</b>	electronic	40m x 20m H 3,5m	103	28	45	1260	41%	30%
921 1X36W	electronic	40m x 20m H 3,5m	105	36	50	1800	-	-
920 1X36W	magnetic.	40m x 20m H 3,5m	105	43	50	2150	-	-

### Save more with presence detectors = instant start!

continually turning lights ON and OFF does not damage LEDs like in fluorescent tubes



### The energy-efficiency pyramid



### LED - Fluorescent correspondence

Luminous emission

2x58W			
2x36W			
1x36W			
	927 - 72 LED	927 - 126 LED	927 - 168 LED





# The other waterproof LED fixtures manufactured by Disano

LED 

Oblò LED



Forma LED



Safety  
Flag LED



Vega LED  
Vega LED EM



**disano**   
**illuminazione**  
www.disano.it

Contact your local  
dealer for more  
information.

