





ENERGY SAVING



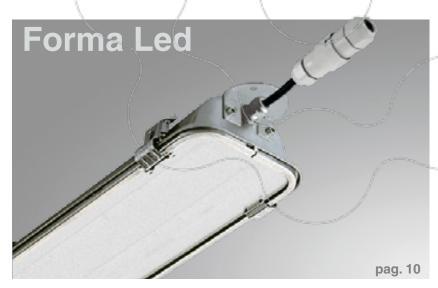
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The best of the LED technology applied to a product that has been a leader in the market for years thanks to the exceptional quality of the materials, and the robustness and reliability of its housing.

Echo LED is a product of Disano's watertight line of products which is now available in two new versions: Energy Saving and High Performance to ensure extraordinary performance in terms of energy savings and light quality. Savings are further increased by the new light control technologies, like presence sensors that, thanks to LEDs, improve performance without affecting the duration of the light sources. The high quality of lighting, with an amazing degree of light uniformity and a CRI>80, offer tangible advantages in terms of safety, productivity and visual well-being at the work place.





The lamp's housing is in steel, with **IP65** protection rating, particularly resistant thanks to the reinforced structure with internal ribbing. These characteristics are supported by all the benefits of LED technology, i.e. light sources with a very long life **(50,000 hours)**, low consumption and high light quality.

Forma LED is the most energy-efficient and technologically advanced solutions for the lighting of industrial and commercial interiors, and for infrastructure such as galleries, tunnels and underpasses.

Advantages are even greater in places where maintenance is difficult and the long life of a lighting system is fundamental.



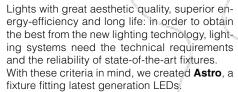
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Thanks to the expertise and attention to quality guaranteed by Disano, a world-wide leader in the industrial lighting sector, the Rapid System series is now available with LEDs: the product presents the same basic features that has made it such a success over the years, plus the advantages of the LED technology, such as quality output, energy saving and long life. Ideal for the installation in stores to save run-

ning costs thanks to the LED technology. Rapid System uses latest generation LEDs and modules that are designed to allow the light beam to be directed according to needs in order to optimise light and performance when they are used in combination with optical accessories.





Thanks to narrow and wide beam optics it presents itself as a fully compliant and adjustable solution.

Simple and linear aesthetics combines with a sophisticated technology to offer exceptional technical performance.









Efficiency, energy saving and security Isolation class I.

Quick connection with plug and socket, no need to open the fixture.

Material compatible with food industry environments. Mounting is also possible at low or very low temperatures (instant start and no flux decay).

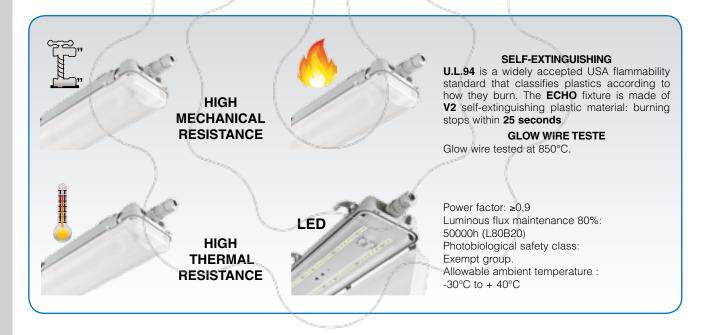
For applications with direct exposure to sunlight, we recommend using Forma LED.

On request:

• Water-proof lighting fitting on request with stainless steel latches to be ordered using **sub-code 0077** at an extra price.



WATERPROOF FIXTURES Polycarbonate fixtures of the **Echo** series are IP66 water-resistant if installed at temperatures not exceeding 45°C. Direct exposure to sunlight can easily cause the temperature to exceed 45°C, which affects the degree of protection. However, it is recommended that these fixtures are used properly without altering their mechanical and protection properties (IP66); **they should** <u>not</u> **be installed on surfaces subject to strong vibrations, outdoors on ropes or stakes**; whenever this is necessary, waterproof steel fixtures should be used.



Project comparison: old system.

One-to-one fixture replacement without changing the existing electrical system

fixtures	ballast	room	LUX	Qty	P. tot (W)	927 Echo - ene	rgy consumption
927 ECHO 1600mm	electronic	40m x 20m H 3.5m	360	50	2650	-52%	-63%
2X58W	electronic	40m x 20m H 3.5m	324	50	5500	compared to	compared to 2x58W
2X58W	magnetic.	40m x 20m H 3.5m	324	50	7000	A2 2x58W electronic	magnetic ∆t55

Project comparison: new system

Save on energy and installation costs by reducing the number of lighting fixtures

fixtures	ballast	room	LUX	Qty	P. tot (W)	957 Echo - ene	rgy consumption
957 ECHO 1600mm	electronic	40m x 20m H 3.5m	340	40	2440	-56%	-65%
2X58W	electronic	40m x 20m H 3.5m	324	50	5500	compared to	compared to 2x58W
2X58W	magnetic.	40m x 20m H 3.5m	324	50	7000	A2 2x58W electronic	magnetic Δt55

Echo Led



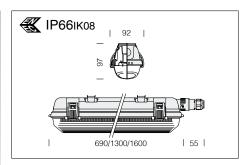
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Energy Saving



	27 Echo LED module	
LED Wattage (W)	Total power consumption (W)	14 15 15
10	11	\$5 X + 44 × 59
18	20	45 45
24	26,5	25 25 15 5100005° 15° 25 39

39,5

53

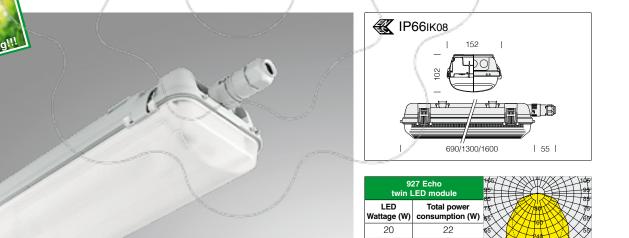
36

48

927 Echo - single LED module

		CLD CELL			CLD CELL-E	and the second se	LED (Tj=25°C)	
wattage/W	colour	weight	L	code	code	w	K - ølm - CRI	
LED	grey	1.00	690	164700-00		10	4000K - 1620Im - CRI≥80	
LED	grey	2.00	1300	164701-00	164701-07	18	4000K - 2920Im - CRI≥80	
LED	grey	3.00	1600	164702-00	164702-07	24	4000K - 3890Im - CRI≥80	

On request RADAR SENSOR (sub-code -19 at an extra price): is an automatic sensor that immediately sense the presence of people's movements and anyone walking past. When there is movement within the sensor's detection range, the light will remain ON. When no further movement is detected, the light will switch OFF after a pre-set time.



3240lm

5830lm 7780lm

927 Echo - twin LED module

	CLD CELL			CLD CELL-E		LED (Tj=25°C)	
wattage/W	colour	weight	L	code	code	w	K - ølm - CRI
LED	grey	1.30	690	164703-00	164703-07	20	4000K - 3240Im - CRI≥80
LED	grey	2.30	1300	164704-00	164704-07	36	4000K - 5830Im - CRI≥80
LED	grey	3.30	1600	164705-00	164705-07	48	4000K - 7780Im - CRI≥80

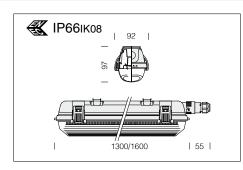
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High Performance

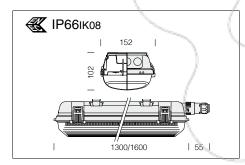




		57 Echo LED module
TS TAX HEP	LED Wattage (W)	Total power consumption (W)
55	21	24
	28	31



			- single LED module		and the second sec		
			1	CLD CELL	CLD CELL-E	1	LED (Tj=25°C)
wattage/W	colour	weight	- L/	code	code	e w	K - ølm - CRI
LED	grey	2.00	1300	164711-00	164711-07	21	4000K - 3400Im - CRI≥80
LED	grey	3.00	1600	164712-00	164712-07	28	4000K - 4540Im - CRI≥80



		57 Echo ED module		
75 X Hap X Ha	LED Wattage (W)	Total power consumption (W)		
55	42	46		
25 25 15 5 400 5 75 25 35	56	61		

957 Echo - module LED double

CLD CELL			CLD CELL	CLD CELL-E		LED (Tj=25°C)	
wattage/W	colour	weight	L	code	code	w	K - ølm - CRI
LED	grey	2.30	1300	164714-00	164714-07	42	4000K - 6800Im - CRI≥80
LED	grey	3.30	1600	164715-00	164715-07	56	4000K - 9070Im - CRI≥80

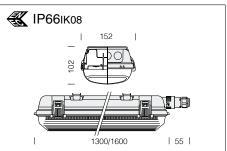
6800lm 9070lm

4000K



Narrow beam and Plus





	Echo FS ED module	
LED Wattage (W)	Total power consumption (W)	
36	39,5	\$5 450 557
48	53	85 25 15 5 colores 15 25 35



8

CRI≥80

5830lm	
7780lm	

		9	27 Ec	ho FS - twin	LED mo	odule
		CL	D CELL		LED (Tj=25°C)	
wattage/W	colour	weight	L	code	w	K - ølm - CRI
LED	grey	2.30	1300	164704-22	36	4000K - 5830lm - CRI≥80
LED	grey	3.30	1600	164705-22	48	4000K - 7780Im - CRI≥80

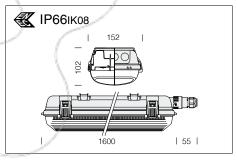
	957 Echo FS - twin LED module						
			and all the	С	LD CELL		LED (Tj=25°C)
6800lm	wattage/W	colour	weight	L	code	w	K - ølm - CRI
9070lm	LED	grey	2.30	1300	164714-22	42	4000K - 6800Im - CRI≥80
	LED	grey	3.30	1600	164715-22	56	4000K - 9070Im - CRI≥80
						1	

	Echo FS ED module	
LED Wattage (W)	Total power consumption (W)	
42	46	
56	61	85 25 15 5 750 15 5 750 15 5 750 15 5 750



CRI≥80

Plus

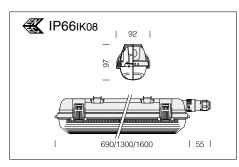


	o Energy Plus ED module	
LED Wattage (W)	Total power consumption (W)	75 65
55	60	45 24 55 45 24 45 25 24 45 25 24 15 24 25 24 15 24 55 25 24 15 24 55 25 24 15 24 55 25 24 55 25 24 55 26 25 555

927 Echo Energy Plus - twin LED module							
CLD CELL LED (Tj=25°C)							
wattage/W	colour	weight	L	code	w	K - ølm - CRI	
LED	grey	3.30	1600	164706-00	55	4000K - 8500Im - CRI≥80	

3000K / 6500K

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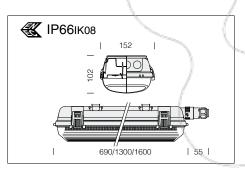
	927 Echo single LED module		
73 / 80 / 75 85 / 65	LED Wattage (W)	Total power consumption (W)	
5	10	11	
15 A 320 A 45	18	20	
	24	26,5	



927 Echo - single LED module

				CLD CELL	CLD CELL-E	1	LED (Tj=25°C)
wattage/W	colour	weight	L	code	code	Ø W	K - ølm - CRI
LED	grey	1.00	690	164700-39		10	3000K - 1530Im - CRI≥80
LED	grey	2.00	1300	164701-39		18	3000K - 2754Im - CRI≥80
LED	grey	3.00	1600	164702-39		24	3000K - 3672Im - CRI≥80
LED	grey	1.00	690	164700-0083	1 1	10	6500K - 1680Im - CRI≥80
LED	grey	2.00	1300	164701-0083	164701-0783	18	6500K - 3020Im - CRI≥80
LED	grey	3.00	1600	164702-0083	164702-0783	24	6500K - 4030Im - CRI≥80

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		27 Echo -ED module
	LED Wattage (W)	Total power consumption (W)
5 X X X X 59	20	22
45	36	39,5
25 25 15 5 mm 5 15 25 39	48	53

927 Echo - twin LED module

		CLD CELL			CLD CELL-E		LED (Tj=25°C)
wattage/W	colour	weight	L	code	code	w	K - ølm - CRI
LED	grey	1.30	690	164703-39		20	3000K - 3060Im - CRI≥80
LED	grey	2.30	1300	164704-39		36	3000K - 5500Im - CRI≥80
LED	grey	3.30	1600	164705-39		48	3000K - 7340Im - CRI≥80
LED	grey	1.30	690	164703-0083	164703-0783	20	6500K - 3360Im - CRI≥80
LED	grey	2.30	1300	164704-0083	164704-0783	36	6500K - 6050Im - CRI≥80
LED	grey	3.30	1600	164705-0083	164705-0783	48	6500K - 8060Im - CRI≥80

On request RADAR SENSOR (sub-code -19 at an extra price): is an automatic sensor that immediately sense the presence of people's movements and anyone walking past. When there is movement within the sensor's detection range, the light will remain ON. When no further movement is detected, the light will switch OFF after a pre-set time.

3000K: 1530lm 2754lm 3672lm

9

6500K: 1680lm 3020lm 4030lm

CRI≥80

3000K: 3060lm 5500lm 7340lm

6500K: 3360lm 6050lm 8060lm



We recommend using this version for applications with direct exposure to sunlight.

On request: emergency unit.

LED



Power factor: ≥0,9 Luminous flux maintenance 80%: 50000h (L80B20) Power consumption: 46W, 61W Colour temperature: on request 3000K and 6000K.



Forma Led

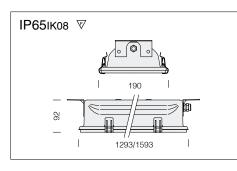
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4000K

6800lm

CRI≥80



	99	3 Forma
75° 490 55°	LED Wattage (W)	Total power consumption (W)
\$5° \$5° \$70 \$5°	42	46
35° 360 35° 85° 35° 25° 35° 25°	56	61



and a second	993 Forma						
			CLD C	ELL	and the second	LED (Tj=25°C)	
wattage (116mA)	colour	weight	/ L /	code	w	K - ølm 116mA - CRI	
LED	s. silver	7.20	1293	162447-00	42	4000K - 6800Im - CRI≥80	
LED	s. silver	9.00	1593	162448-00	56	4000K - 9070Im - CRI≥80	
1	8	1	1				

	1
IP651K08	$\overline{\mathbb{V}}$
	l 190 l
_	

	99	5 Forma
70 65° 65°	LED Wattage (W)	Total power consumption (W)
	42	46
35° 400 25' 15' 5° 5° 5° 25° 35°	56	61

				/
		-Th		
	10			
- 1	1			
		-		
			1	

995 Forma									
CLD CELL LED (Tj=25°C)									
wattage (116mA)	colour	weight	L	code	w	K - ølm 116mA - CRI			
LED	s. silver	7.20	1293	162445-00	42	4000K - 6800Im - CRI≥80			
LED	s. silver	9.00	1593	162446-00	56	4000K - 9070Im - CRI≥80			

4000K

6800lm 9070lm

12



Fixture housing: galvanized steel previously stove-enamelled with UV-stabilised white polyester resin; rounded edges to prevent cutting; polycarbonate end caps.

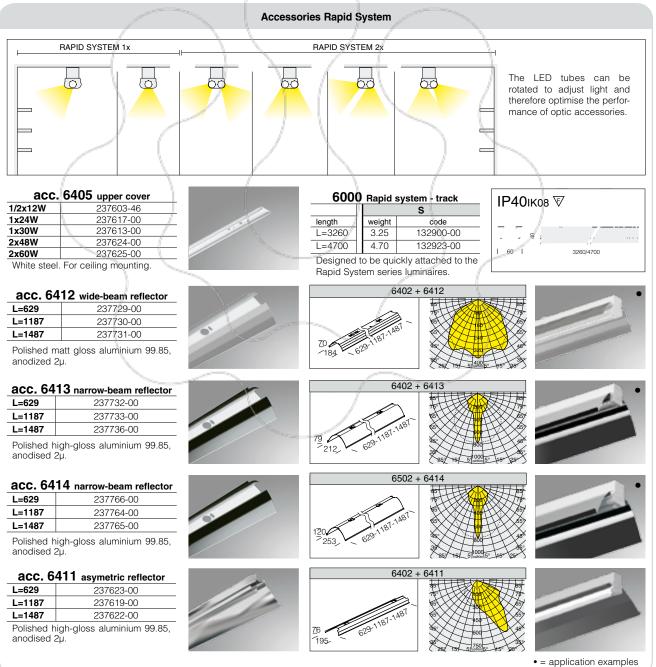
Standard supply: nylon fastening pawl.

LED module: support in natural anodized extruded aluminium. Micro-fluted diffuser in methacrylate.

On request: 3000K versions, DIMM 1-10V and DALI.

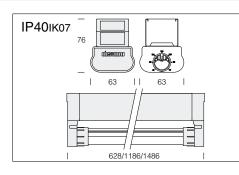
LED: Power factor ≥0.9 Luminous flux maintenance 80% 50000h (L80B20) Photobiological safety class: Exempt group. Power consumption: art. 6402 14W, 26W, 34W

art. 6502 26W, 52W, 68W



Rapid System

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	6402 Rapid System single LED module				
15° (60 /75 55 (57)	LED Wattage (W)	Total power consumption (W)			
	12	14			
45° 240 45	24	26			
25 15 5 00 km 5° + 5° 25°	30	34			



6402 Rapid System - LED 1x

				CLD CELL		CLD CELL-E			LED (Tj=25°C)
wattage	couleur	weight	L	code	weight	L	code	w	K - ølm - CRI
LED 1x	white	1.10	628	237521-00	Contra Co			12	4000K - 1940Im - CRI≥80
LED 1x	white	1.30	1186	237522-00	1.80	1186	237522-09	24	4000K - 3890Im - CRI≥80
LED 1x	white	1.50	1486	237523-00	2.00	1486	237523-09	30	4000K - 4860Im - CRI≥80

IP40ікот 76 63 63 63 63 63 63 63

		apid System .ED module		
	LED Wattage (W)	Total power consumption (W)		
55 X X 4 1 4 X 55	24	26		
45° 280 48×	48	52		
36° 25 15 5° 350 15° 25°	60	68		

6502 Rapid System - LED 2x

		CLD CELL			CLD CELL-E				LED (Tj=25°C)
wattage	colour	weight	L	code	weight	L	code	w	K - ølm - CRI
LED 2x	white	1.10	628	237541-00				24	4000K - 3890Im - CRI≥80
LED 2x	white	1.30	1186	237542-00	1.80	1186	237542-09	48	4000K - 7780Im - CRI≥80
LED 2x	white	1.50	1486	237543-00	2.00	1486	237543-09	60	4000K - 9720Im - CRI≥80

4000K

3890lm 7780lm 9720lm

CRI≥80

13

4000K

1940lm 3890lm 4860lm



Standard supply: temperature control inside the device with automatic resetting.

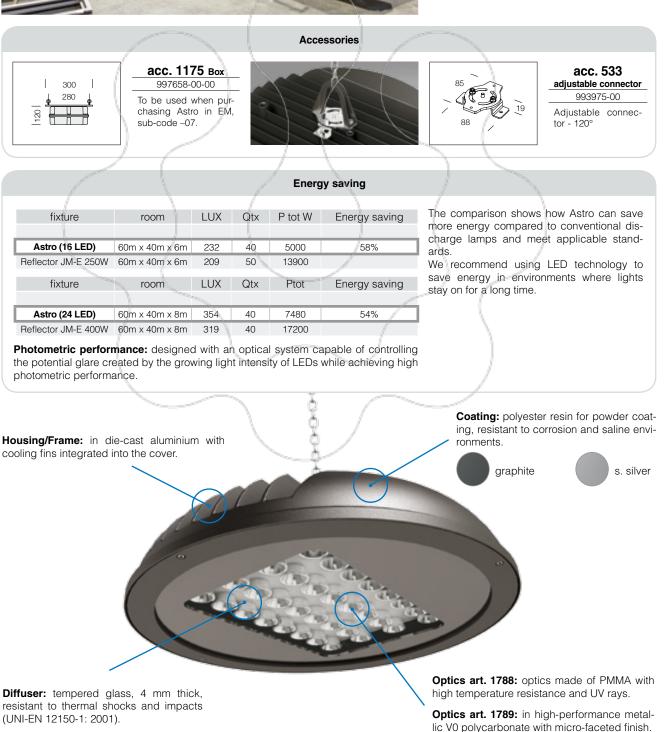
Safety diode to protect against voltage peaks compliant with EN 61547.

Equipped with anti-condensation filter.

Dimmable: Standard 1-10V dimmer, dimmable from 10% to 100%.

LED: Power factor ≥0,9. Luminous flux maintenance 70% : 50000h (L70B20).

On request: presence sensor or light sensor to wall or ceiling.



(UNI-EN 12150-1: 2001).

Astro Led

250

273

1





1788 Astro - suspension - narrow beam

Troo Astro - suspension - narrow beam								
		CLD	CELL-D (1-10V)	CLD CELLD-E	11th	LED (Tj=85°C)		
wattage 700mA	colour	weight	code	code	w	K - ølm 700mA - CRI		
LED	s. silver	11.20	330080-00	330080-07	125	4000K 47000 - ODI 00		
LED	graphite	11.20	330083-00	330083-07	125	4000K - 17280lm - CRI 80		
LED	s. silver	11.35	330081-00	330081-07	187			
LED	graphite	11.35	330084-00	330084-07		4000K - 25920Im - CRI 8		
LED	s. silver	11.50	330082-00	330082-07	050	10001/ 045001 ODL 00		
LED	graphite	11.50	330085-00	330085-07	250	4000K - 34560lm - CRI 80		



4000K

17280lm 25920lm 34560lm

CRI 80

DIMM 1/10V

		32 LED		
		89 Astro de beam		
	LED Total power Wattage (W) consumption (W			
65 X X 55	125	138		
45° 45°	187	205		
35° 257 155 51 cdKm5° 15° 25°	250	273		

163

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1789 Astro - suspension - wide beam

		C	LD CELL-D (1-10V)	CLD CELLD-E		LED (Tj=85°C)
wattage 700mA	colour	weight	code	code	w	K - ølm 700mA - CRI
LED	s. silver	11.20	330090-00	330090-07	125	4000K - 17280Im - CRI 80
LED	graphite	11.20	330093-00	330093-07	125	4000K - 17280IM - CRI 80
LED	s. silver	11.35	330091-00	330091-07	187	
LED	graphite	11.35	330094-00	330094-07	1 10/	4000K - 25920Im - CRI 80
LED	s. silver	11.50	330092-00	330092-07	250	40001/ 045C01- ODI 00
LED	graphite	11.50	330095-00	330095-07	250	4000K - 34560Im - CRI 80



