

NANOTTICA ES



... energy saver, exceptional efficiency,
ceiling height from 3.5 to 8 m, impact resistant.

USE

Compared to its basic version, Nanottica ES boasts **lower energy consumption**, which translates into **considerably higher luminous efficacy (lm/W)**.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 325.

ADVANTAGES

- Maximum light fitting efficiency: **168 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19.1 to 23.6**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **Multipurpose snap-in mounting clips** – easy attachment to a track lighting system with a width of 60 mm
- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI → 80: 4000 K
- On request CRI → 80: 3000 K, 5000 K, 6500 K
- CRI → 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **ES_C, ENEC, CB, HACCP**



NANOTTICA ES PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **168 lm/W**
- **UGR ranging from 19.1 to 23.6**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI → 80: 4000 K** - standard
- CRI → 80: 3000 K, 5000 K, 6500 K - on request
- CRI → 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nanooptics** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Multipurpose mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse	Net weight [kg]	A [mm]	D [mm]
Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser with nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft ES PC 1300/840	50	1330	1250	8	156	19.1 / 20.1	0,9	615	110 - 370
NANOTTICA 1.2ft ES PC 1600/840	50	1620	1520	10	152	19.8 / 20.8	0,9	615	110 - 370
NANOTTICA 1.2ft ES PC 2200/840	45	2230	2100	14	150	20.9 / 21.9	0,9	615	110 - 370
NANOTTICA 1.4ft ES PC 2600/840	50	2630	2470	16	154	19.3 / 20.4	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 3200/840	50	3180	2990	20	150	20.0 / 21.1	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 4400/840	45	4450	4180	27	155	21.1 / 22.2	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 6400/840	45	6310	5930	38	156	22.4 / 23.5	1,7	1175	700 - 960
NANOTTICA 1.5ft ES PC 3250/840	50	3290	3090	20	155	19.3 / 20.4	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 4000/840	50	4050	3810	24	159	20.0 / 21.2	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 5500/840	45	5560	5230	33	158	21.1 / 22.3	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 8000/840	45	8020	7540	45	168	22.4 / 23.6	2,0	1455	970 - 1230

NANOTTICA ES PC

Code	Type
102550	NANOTTICA 1.2ft ES PC 1300/840
102551	NANOTTICA 1.2ft ES PC 1600/840
102552	NANOTTICA 1.2ft ES PC 2200/840
102553	NANOTTICA 1.4ft ES PC 2600/840
102554	NANOTTICA 1.4ft ES PC 3200/840
102555	NANOTTICA 1.4ft ES PC 4400/840
102556	NANOTTICA 1.4ft ES PC 6400/840
102557	NANOTTICA 1.5ft ES PC 3250/840
102558	NANOTTICA 1.5ft ES PC 4000/840
102559	NANOTTICA 1.5ft ES PC 5500/840
102560	NANOTTICA 1.5ft ES PC 8000/840

Non-dimmable driver - plastic clips

	1F	3F	M1h	M3h	3F M1h	3F M3h
102561	102572	102583	x	x	x	x
102562	102573	102584	x	x	x	x
102563	102574	102585	x	x	x	x
102564	102575	102586	102594	102602	102610	102618
102565	102576	102587	102595	102603	102611	102619
102566	102577	102588	102596	102604	102612	102620
102567	102578	102589	102597	102605	102613	102621
102568	102579	102590	102598	102606	102614	102622
102569	102580	102591	102599	102607	102615	102623
102570	102581	102592	102600	102608	102616	102624
102571	102582	102593	102601	102609	102617	102625

NANOTTICA ES PCc

Code	Type
102618	NANOTTICA 1.2ft ES PCc 1300/840
102619	NANOTTICA 1.2ft ES PCc 1600/840
102620	NANOTTICA 1.2ft ES PCc 2200/840
102621	NANOTTICA 1.4ft ES PCc 2600/840
102622	NANOTTICA 1.4ft ES PCc 3200/840
102623	NANOTTICA 1.4ft ES PCc 4400/840
102624	NANOTTICA 1.4ft ES PCc 6400/840
102625	NANOTTICA 1.5ft ES PCc 3250/840
102626	NANOTTICA 1.5ft ES PCc 4000/840
102627	NANOTTICA 1.5ft ES PCc 5500/840
102628	NANOTTICA 1.5ft ES PCc 8000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M1h	M3h	3F M1h	3F M3h
102629	102640	102651	x	x	x	x
102630	102641	102652	x	x	x	x
102631	102642	102653	x	x	x	x
102632	102643	102654	102662	102670	102678	102686
102633	102644	102655	102663	102671	102679	102687
102634	102645	102656	102664	102672	102680	102688
102635	102646	102657	102665	102673	102681	102689
102636	102647	102658	102666	102674	102682	102690
102637	102648	102659	102667	102675	102683	102691
102638	102649	102660	102668	102676	102684	102692
102639	102650	102661	102669	102677	102685	102693

NANOTTICA ES PC DALI

Code	Type
102686	NANOTTICA 1.2ft ES PC 1300/840 DALI
102687	NANOTTICA 1.2ft ES PC 1600/840 DALI
102688	NANOTTICA 1.2ft ES PC 2200/840 DALI
102689	NANOTTICA 1.4ft ES PC 2600/840 DALI
102690	NANOTTICA 1.4ft ES PC 3200/840 DALI
102691	NANOTTICA 1.4ft ES PC 4400/840 DALI
102692	NANOTTICA 1.4ft ES PC 6400/840 DALI
102693	NANOTTICA 1.5ft ES PC 3250/840 DALI
102694	NANOTTICA 1.5ft ES PC 4000/840 DALI
102695	NANOTTICA 1.5ft ES PC 5500/840 DALI
102696	NANOTTICA 1.5ft ES PC 8000/840 DALI

Digital dimmable driver DALI - plastic clips

1F	3F	M1h	M3h	3F M1h	3F M3h
102697	x	102719	x	x	x
102698	x	102720	x	x	x
102699	x	102721	x	x	x
102700	102711	102722	102730	102738	102746
102701	102712	102723	102731	102739	102747
102702	102713	102724	102732	102740	102748
102703	102714	102725	102733	102741	102749
102704	102715	102726	102734	102742	102750
102705	102716	102727	102735	102743	102751
102706	102717	102728	102736	102744	102752
102707	102718	102729	102737	102745	102753

NANOTTICA ES PCc DALI

Code	Type
102754	NANOTTICA 1.2ft ES PCc 1300/840 DALI
102755	NANOTTICA 1.2ft ES PCc 1600/840 DALI
102756	NANOTTICA 1.2ft ES PCc 2200/840 DALI
102757	NANOTTICA 1.4ft ES PCc 2600/840 DALI
102758	NANOTTICA 1.4ft ES PCc 3200/840 DALI
102759	NANOTTICA 1.4ft ES PCc 4400/840 DALI
102760	NANOTTICA 1.4ft ES PCc 6400/840 DALI
102761	NANOTTICA 1.5ft ES PCc 3250/840 DALI
102762	NANOTTICA 1.5ft ES PCc 4000/840 DALI
102763	NANOTTICA 1.5ft ES PCc 5500/840 DALI
102764	NANOTTICA 1.5ft ES PCc 8000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

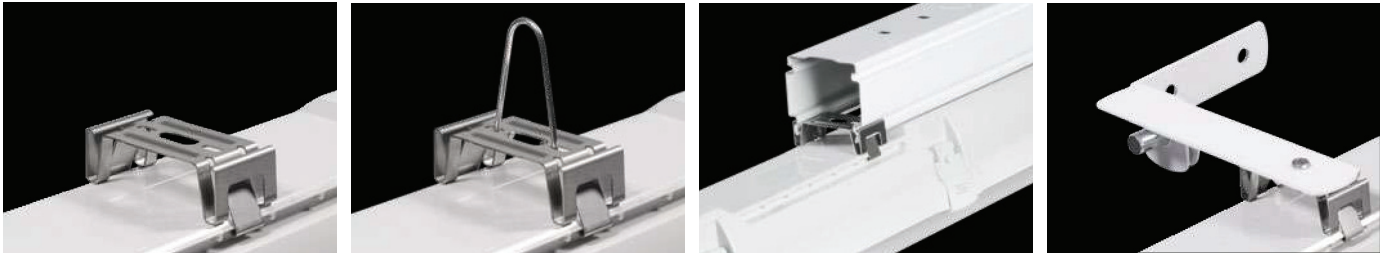
1F	3F	M1h	M3h	3F M1h	3F M3h
102765	x	102787	x	x	x
102766	x	102788	x	x	x
102767	x	102789	x	x	x
102768	102779	102790	102798	102806	102814
102769	102780	102791	102799	102807	102815
102770	102781	102792	102800	102808	102816
102771	102782	102793	102801	102809	102817
102772	102783	102794	102802	102810	102818
102773	102784	102795	102803	102811	102819
102774	102785	102796	102804	102812	102820
102775	102786	102797	102805	102813	102821

LEGEND

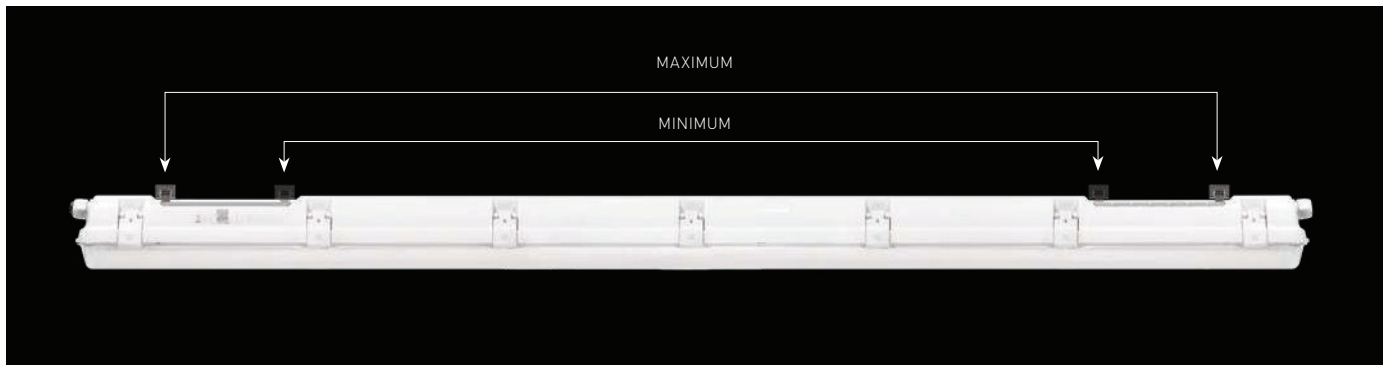
- 1F** 1-phase 3 core through-wiring in the luminaire
- 3F** 3-phase 5 core through-wiring in the luminaire
- M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination
- M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination
- 3F Mxh** 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)
- DALI** version with digital dimmable driver DALI
- DALI 1F** 1-phase 5 core through-wiring in the luminaire
- DALI 3F** 3-phase 7 core through-wiring in the luminaire
- DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) To be attached to a track lighting system with a width of 60 mm using stainless steel snap-in mounting clips
- d) Attachment with the use of side hangers to the wall

**VARIABLE INSTALLATION PITCH**

NANOTTICA ES PC

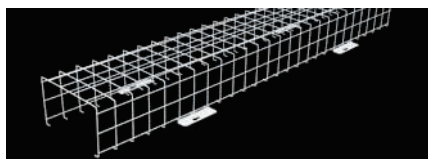
**LIGHT FITTING DETAILED VIEW**

NANOTTICA ES PC



OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



Code	Type	Description	Weight [kg]
11941	OM 218	protective grid for types 218, 214/224, 2.2ft (700×220×130 mm)	1,0
11942	OM 236	protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm)	1,7
11943	OM 258	protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm)	2,0

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



Code	Type	Description	Weight [kg]
90002	BZ	side hanger with blocking (set for 1 light fitting)	0,4

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



Code	Type	Description	Weight [kg]
79001	KBA 40 ZU	light fitting suspended holder - Canalis KBA system	0,1
70002	KBC 10 CC211	connector with 1 m cable - Canalis KBA system	0,2