NANOTTICA ES TRS



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

USE

Compared to its basic version, **fully transparent** Nanottica ES TRS PC boasts considerably **lower UGR values** as well as **lower energy consumption**, the latter translating 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 421.

ADVANTAGES

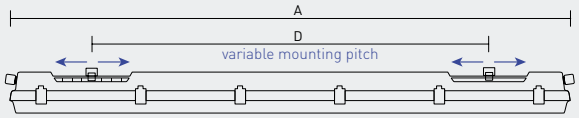
- Maximum light fitting efficiency: **185 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from ta = -25°C to **ta = 50°C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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: **EPD, HACCP**

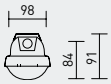
NANOTTICA ES TRS PC, PCc



TECHNICAL DESCRIPTION

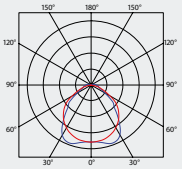
- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **185 lm/W**
- Optimum 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nanooptics** (high mechanical resistance, UV stability)
- Body: **transparent PC** (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **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
- 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

NANOTTICA 1.5ft ES TRS



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/ transverse			
Up to ambient temperature ta = 50 °C - body transparent polycarbonate - diffusor with nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft ES TRS PC 1600/840	50	1740	1640	9,4	174	18.1 / 20.0	0,9	615	110 - 370
NANOTTICA 1.2ft ES TRS PC 2200/840 *	45	2390	2250	13,0	173	19.2 / 21.1	0,9	615	110 - 370
NANOTTICA 1.4ft ES TRS PC 3200/840	50	3300	3100	17,4	178	18.1 / 20.2	1,7	1175	700 - 960
NANOTTICA 1.4ft ES TRS PC 4400/840 *	45	4550	4280	24,1	178	19.3 / 21.3	1,7	1175	700 - 960
NANOTTICA 1.4ft ES TRS PC 6400/840 *	45	6500	6110	34,0	180	20.5 / 22.6	1,7	1175	700 - 960
NANOTTICA 1.5ft ES TRS PC 4000/840	50	4030	3790	20,6	184	18.1 / 20.2	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES TRS PC 5500/840 *	45	5530	5200	28,9	180	19.2 / 21.3	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES TRS PC 8000/840 *	45	8020	7540	41,4	182	20.5 / 22.6	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft ES TRS PC 2200/840 ML	1950	11,3	173	1640	9,4	174	1310	7,6	172
NANOTTICA 1.4ft ES TRS PC 4400/840 ML	3690	20,8	177	3100	17,4	178	2500	14,2	176
NANOTTICA 1.4ft ES TRS PC 6400/840 ML	5270	29,0	182	4440	24,3	183	3580	19,7	182
NANOTTICA 1.5ft ES TRS PC 5500/840 ML	4490	24,6	183	3790	20,6	184	3060	16,5	185
NANOTTICA 1.5ft ES TRS PC 8000/840 ML	6520	35,4	184	5480	29,6	185	4430	23,9	185

NANOTTICA ES TRS PC

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103135	NANOTTICA 1.2ft ES TRS PC 1600/840	103146	103157	x	x
103136	NANOTTICA 1.2ft ES TRS PC 2200/840 ML	103147	103158	x	x
103138	NANOTTICA 1.4ft ES TRS PC 3200/840	103149	103160	108691	108699
103139	NANOTTICA 1.4ft ES TRS PC 4400/840 ML	103150	103161	108692	108700
103140	NANOTTICA 1.4ft ES TRS PC 6400/840 ML	103151	103162	108693	108701
103142	NANOTTICA 1.5ft ES TRS PC 4000/840	103153	103164	108695	108703
103143	NANOTTICA 1.5ft ES TRS PC 5500/840 ML	103154	103165	108696	108704
103144	NANOTTICA 1.5ft ES TRS PC 8000/840 ML	103155	103166	108697	108705

NANOTTICA ES TRS PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
103203	NANOTTICA 1.2ft ES TRS PCc 1600/840	103214	103225	x	x
103204	NANOTTICA 1.2ft ES TRS PCc 2200/840 ML	103215	103226	x	x
103206	NANOTTICA 1.4ft ES TRS PCc 3200/840	103217	103228	108707	108715
103207	NANOTTICA 1.4ft ES TRS PCc 4400/840 ML	103218	103229	108708	108716
103208	NANOTTICA 1.4ft ES TRS PCc 6400/840 ML	103219	103230	108709	108717
103210	NANOTTICA 1.5ft ES TRS PCc 4000/840	103221	103232	108711	108719
103211	NANOTTICA 1.5ft ES TRS PCc 5500/840 ML	103222	103233	108712	108720
103212	NANOTTICA 1.5ft ES TRS PCc 8000/840 ML	103223	103234	108713	108721

NANOTTICA ES TRS PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103271	NANOTTICA 1.2ft ES TRS PC 1600/840 DALI	103282	x	x	x
103272	NANOTTICA 1.2ft ES TRS PC 2200/840 DALI	103283	x	x	x
103274	NANOTTICA 1.4ft ES TRS PC 3200/840 DALI	103285	103296	108723	108731
103275	NANOTTICA 1.4ft ES TRS PC 4400/840 DALI	103286	103297	108724	108732
103276	NANOTTICA 1.4ft ES TRS PC 6400/840 DALI	103287	103298	108725	108733
103278	NANOTTICA 1.5ft ES TRS PC 4000/840 DALI	103289	103300	108727	108735
103279	NANOTTICA 1.5ft ES TRS PC 5500/840 DALI	103290	103301	108728	108736
103280	NANOTTICA 1.5ft ES TRS PC 8000/840 DALI	103291	103302	108729	108737

NANOTTICA ES TRS PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
103339	NANOTTICA 1.2ft ES TRS PCc 1600/840 DALI	103350	x	x	x
103340	NANOTTICA 1.2ft ES TRS PCc 2200/840 DALI	103351	x	x	x
103342	NANOTTICA 1.4ft ES TRS PCc 3200/840 DALI	103353	103364	108739	108747
103343	NANOTTICA 1.4ft ES TRS PCc 4400/840 DALI	103354	103365	108740	108748
103344	NANOTTICA 1.4ft ES TRS PCc 6400/840 DALI	103355	103366	108741	108749
103346	NANOTTICA 1.5ft ES TRS PCc 4000/840 DALI	103357	103368	108743	108751
103347	NANOTTICA 1.5ft ES TRS PCc 5500/840 DALI	103358	103369	108744	108752
103348	NANOTTICA 1.5ft ES TRS PCc 8000/840 DALI	103359	103370	108745	108753

LEGEND

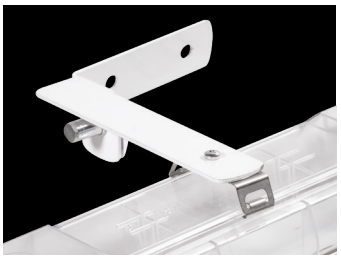
1F - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency 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 M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

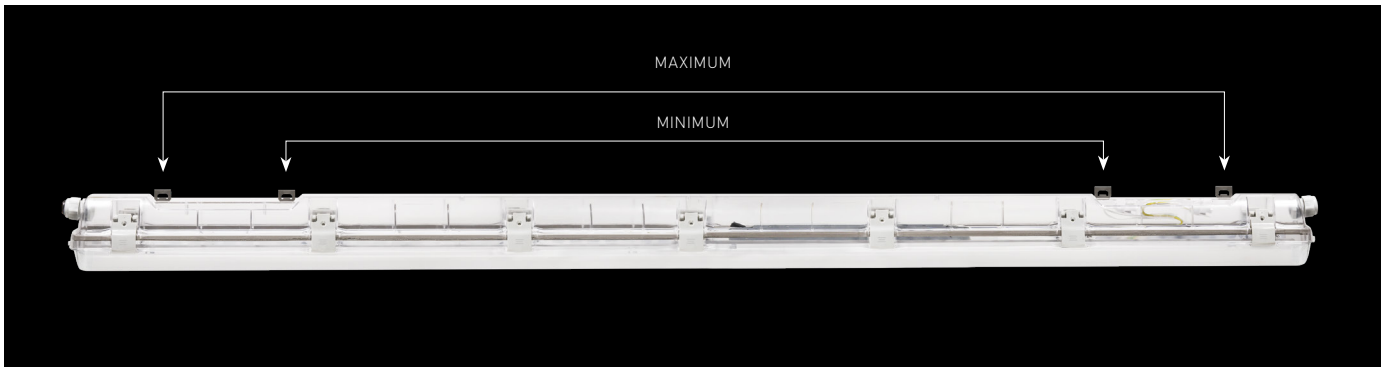
a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks
c) Attachment with the use of side hangers to the wall - is not included in accessories





VARIABLE INSTALLATION PITCH

NANOTTICA ES TRS



LIGHT FITTING DETAILED VIEW

NANOTTICA ES TRS

