FUTURA SNS



... dustproof, waterproof and impact-resistant, MultiLumen.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 421.

ADVANTAGES

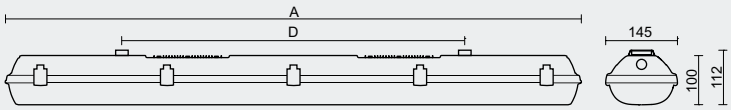
- Light fitting protection **IP66**
- Maximum ambient temperature up to t_a **= 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- Current driver with the possibility of constant luminous flux for whole lifetime (CLO)
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- With built-in **microwave motion sensor**
- The possibility of setting the sensor using the DIP switch
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: HACCP

FUTURA SNS PC Al, PCc Al

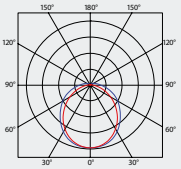


TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: t_a = 50 °C, Maximum ambient temperature: t_a = 0-40 °C (version with emergency back-up M3hAt)
- Maximum system efficacy: 167 lm/W
- The watt and lumen values can vary by ± 7,5 %
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or digital dimmable driver DALI
- Motion sensor: detection angle 30°-150°, switch on height 1 – 6 m, time range 5 sec – 15 min, switch-on sensitivity 2 – 50 lux



FUTURA 2.4ft SNS



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]			
For ambient temperature t_a = 50 °C - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate								
FUTURA 2.2ft SNS PC Al 3200/840 *	50	3250	3060	20,1	152	1,55	612	475
FUTURA 2.2ft SNS PC Al 4400/840 *	45	4680	4400	28,3	155	1,55	612	475
FUTURA 2.4ft SNS PC Al 6400/840 *	50	6520	6130	38,4	160	2,55	1172	700
FUTURA 2.4ft SNS PC Al 8800/840 *	45	8980	8440	52,8	160	2,55	1172	700
FUTURA 2.4ft SNS PC Al 12800/840	35	12920	12140	74,8	162	2,75	1172	700
FUTURA 2.5ft SNS PC Al 8000/840 *	50	8330	7830	48,3	162	3,05	1452	940
FUTURA 2.5ft SNS PC Al 11000/840 *	45	11260	10580	64,7	164	3,05	1452	940
FUTURA 2.5ft SNS PC Al 16000/840	35	16100	15130	92,7	163	3,35	1452	940

*) 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]
FUTURA 2.2ft SNS PC Al 3200/840 ML	2650	17,3	153	2240	14,5	154	1810	12,3	147
FUTURA 2.2ft SNS PC Al 4400/840 ML	3830	24,2	158	3240	20,3	160	2610	16,4	159
FUTURA 2.4ft SNS PC Al 6400/840 ML	5310	32,9	161	4470	27,4	163	3630	22,0	165
FUTURA 2.4ft SNS PC Al 8800/840 ML	7320	44,9	163	6190	37,4	166	5020	30,1	167
FUTURA 2.5ft SNS PC Al 8000/840 ML	6790	41,5	164	5740	34,6	166	4640	27,9	166
FUTURA 2.5ft SNS PC Al 11000/840 ML	9170	55,6	165	7730	46,3	167	6260	37,4	167

79050 FUTURA 2.4ft SNS PC Al 6400/840 ML = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2×36 W
79080 FUTURA 2.5ft SNS PC Al 8000/840 ML = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2×58 W

FUTURA SNS PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
79020	FUTURA 2.2ft SNS PC Al 3200/840 ML	x	x	20478	x
79030	FUTURA 2.2ft SNS PC Al 4400/840 ML	x	x	20479	x
79050	FUTURA 2.4ft SNS PC Al 6400/840 ML	79150	79350	109451	109457
79060	FUTURA 2.4ft SNS PC Al 8800/840 ML	79160	79360	109452	109458
79410	FUTURA 2.4ft SNS PC Al 12800/840	79411	79412	x	x
79080	FUTURA 2.5ft SNS PC Al 8000/840 ML	79180	79380	109454	109460
79090	FUTURA 2.5ft SNS PC Al 11000/840 ML	79190	79390	109455	109461
79420	FUTURA 2.5ft SNS PC Al 16000/840	79421	79422	x	x

FUTURA SNS PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
79220	FUTURA 2.2ft SNS PCc Al 3200/840 ML	x	x	20480	x
79230	FUTURA 2.2ft SNS PCc Al 4400/840 ML	x	x	20481	x
79250	FUTURA 2.4ft SNS PCc Al 6400/840 ML	79550	79650	109475	109481
79260	FUTURA 2.4ft SNS PCc Al 8800/840 ML	79560	79660	109476	109482
79430	FUTURA 2.4ft SNS PCc Al 12800/840	79431	79432	x	x
79280	FUTURA 2.5ft SNS PCc Al 8000/840 ML	79580	79680	109478	109484
79290	FUTURA 2.5ft SNS PCc Al 11000/840 ML	79590	79690	109479	109485
79440	FUTURA 2.5ft SNS PCc Al 16000/840	79441	79442	x	x

FUTURA SNS PC Al CORRIDOR

Digital dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
20482	FUTURA 2.2ft SNS PC Al 3200/840 COR	x	x	20484	x
20483	FUTURA 2.2ft SNS PC Al 4400/840 COR	x	x	20485	x
79053	FUTURA 2.4ft SNS PC Al 6400/840 COR	79153	79353	109463	109469
79063	FUTURA 2.4ft SNS PC Al 8800/840 COR	79163	79363	109464	109470
20486	FUTURA 2.4ft SNS PC Al 12800/840 COR	20487	20488	x	x
79083	FUTURA 2.5ft SNS PC Al 8000/840 COR	79183	79383	109466	109472
79093	FUTURA 2.5ft SNS PC Al 11000/840 COR	79193	79393	109467	109473
20489	FUTURA 2.5ft SNS PC Al 16000/840 COR	20490	20491	x	x

FUTURA SNS PCc Al CORRIDOR

Digital dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
20492	FUTURA 2.2ft SNS PCc Al 3200/840 COR	x	x	20494	x
20493	FUTURA 2.2ft SNS PCc Al 4400/840 COR	x	x	20495	x
79253	FUTURA 2.4ft SNS PCc Al 6400/840 COR	79553	79653	109487	109493
79263	FUTURA 2.4ft SNS PCc Al 8800/840 COR	79563	79663	109488	109494
20496	FUTURA 2.4ft SNS PCc Al 12800/840 COR	20497	20498	x	x
79283	FUTURA 2.5ft SNS PCc Al 8000/840 COR	79583	79683	109490	109496
79293	FUTURA 2.5ft SNS PCc Al 11000/840 COR	79593	79693	109491	109497
20499	FUTURA 2.5ft SNS PCc Al 16000/840 COR	20500	20501	x	x

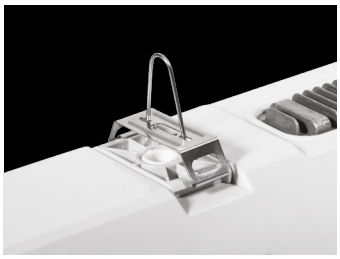
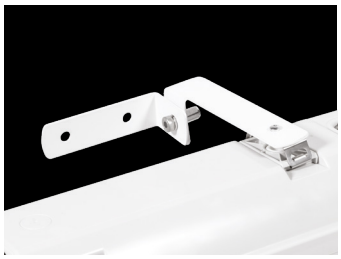
LEGEND

1F - 1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires
3F - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3h At - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

COR - version with digital dimmable driver DALI and set CORRIDOR function
COR 1F - 1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires
COR 3F - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1)
COR 3F M3hAt - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1 and emergency unit to L3)

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

LIGHT FITTING DETAILED VIEW

FUTURA SNS

