

# PROLUMIA®

## PRO-FUSION DOWNLIGHT SERIES

A NEXT LEVEL DOWNLIGHT INNOVATION  
COMBINING PREMIUM FEATURES WITH AN  
INDUSTRY-LEADING PERFORMANCE

GROUNDBREAKING  
PERFORMANCE  
AND RELIABILITY



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## PRO-FUSION

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*Groundbreaking in performance, reliability and application possibilities. Pro-Fusion is an innovative solid state lighting solution designed to deliver illumination performance, unequaled in the market. Whether it concerns general lighting for a new construction project or the replacement of compact fluorescent downlights in existing buildings, the Pro-Fusion realizes lighting that is considerably more comfortable while substantially reducing energy costs.*

**IP54 RECESSED AND SURFACE MOUNTED DOWNLIGHTS**

**LUMINAIRE LUMINOUS EFFICACY OF UP TO 170 LM/W**

**RATED MEDIAN USEFUL LIFE: L90 >50,000 H, L80 >100,000 H**

**SLIDE SWITCH ADJUSTABLE CCT: 3000, 3500 OR 4000 K**

**MULTIPLE STEP-ADJUSTABLE LUMINOUS FLUX LEVELS**

**HIGH OUTPUT & UGR <19 VERSIONS AVAILABLE**

#### SPECIFICATIONS

LED-module: SMD2835

Beam angle: 60°

Adjustable CCT (slide switch): 3000, 3500 or 4000 K

Luminous flux: multiple step-adjustable

IP-rating: IP44 above ceiling, IP54 below ceiling

Luminous efficacy: 135 up to 170 lm/W

Lumen packages: See data table

Unified glare rating: See data table

Median useful life: L90 >50,000 h, L80 >100,000 h

AC Input: 220-240V AC 50/60Hz

Operating temperature: -20°C – +40°C

Electrical safety class: Class II

Power supply options: Non-dimmable LED-driver, Dimmable LED-driver (DALI 2, Switch-Dim, 0-10V, 1-10V, Push and PWM)

#### APPLICATIONS

OFFICES, EDUCATION, RETAIL, HOSPITALITY,  
RESIDENTIAL BUILDINGS, ETC.



#### DIFFERENT VERSIONS AND OPTIONS AVAILABLE:

VARIOUS CUTOUT SIZES: 120, 140, 160 AND 200 MM / PIR-SENSOR VERSION /

DIMMABLE VERSION: DALI 2, SWITCH-DIM, 0-10V, 1-10V, PUSH AND PWM /

SURFACE MOUNT ENCLOSURES / EMERGENCY KIT / SPARE (REPLACEMENT) BATTERY





Pro-Fusion 120



Pro-Fusion 140



Pro-Fusion 160



## PRO-FUSION DOWNLIGHT SERIES

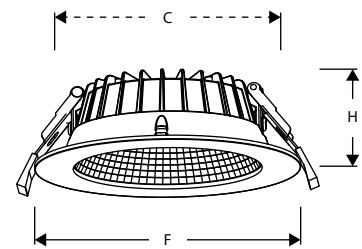
Configurable light colour and luminous flux

PIR-sensor version available

Also available in a dimmable version

Item no.	Description	Height (mm)	Front (mm)	Cutout size (mm)	Current (mA)	Power* (W)	Output* (lm)	Efficacy (lm/W)	UGR
40002910	Pro-Fusion 120   max. 14 W	55	Ø 145	Ø 120-130	200	7.5	1062	142	≤ 19
					250	9.7	1349	139	≤ 19
					300	11.2	1530	137	≤ 22
					350	13.6	1804	133	≤ 22
40002920	Pro-Fusion 140   max. 14 W	58	Ø 170	Ø 140-150	200	7.4	1108	150	≤ 19
					250	9.6	1412	147	≤ 19
					300	11.1	1604	145	≤ 19
					350	13.5	1897	141	≤ 19
40002930	Pro-Fusion 160   max. 14 W	61	Ø 190	Ø 160-170	200	7.3	1154	158	≤ 19
					250	9.6	1474	154	≤ 19
					300	11.0	1678	153	≤ 19
					350	13.4	1990	149	≤ 19
40002931	Pro-Fusion 160   max. 24 W	61	Ø 190	Ø 160-170	450	17.3	2601	150	≤ 22
					500	19.4	2856	147	≤ 22
					550	21.8	3079	141	≤ 22
					600	24.0	3317	138	≤ 22
40002935	Pro-Fusion 160   max. 24 W Dimmable	61	Ø 190	Ø 160-170	200	8.0	1273	159	≤ 19
					250	9.7	1519	157	≤ 19
					300	11.5	1766	154	≤ 19
					350	13.3	2012	151	≤ 19
					400	15.2	2285	150	≤ 22
					450	17.0	2515	148	≤ 22
					500	18.8	2751	146	≤ 22
40002940	Pro-Fusion 200   max. 14 W	61	Ø 228	Ø 200-210	200	7.3	1169	160	≤ 19
					250	9.4	1499	159	≤ 19
					300	10.9	1709	157	≤ 19
					350	13.2	2028	154	≤ 19
40002941	Pro-Fusion 200   max. 24 W	61	Ø 228	Ø 200-210	450	17.3	2660	154	≤ 19
					500	19.4	2925	151	≤ 19
					550	21.4	3173	148	≤ 19
					600	23.5	3429	146	≤ 22
40002945	Pro-Fusion 200   max. 24 W Dimmable	61	Ø 228	Ø 200-210	200	8.0	1273	159	≤ 19
					250	9.7	1519	157	≤ 19
					300	11.5	1766	154	≤ 19
					350	13.3	2012	151	≤ 19
					400	15.2	2285	150	≤ 19
					450	17.0	2515	148	≤ 19
					500	18.8	2751	146	≤ 19
40002951	Pro-Fusion S160   PIR   max. 12 W	55	Ø 180	Ø 160-170	150	6.0	860	143	≤ 19
					200	8.0	1062	133	≤ 19
					250	10.0	1349	135	≤ 19
					280	11.0	1425	130	≤ 22
					300	12.0	1530	128	≤ 22

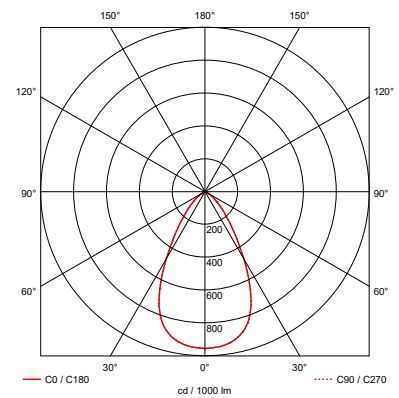
### DIMENSIONAL DRAWING



H = Height  
F = Front  
C = Cutout size

See data table for details.

### LIGHT DISTRIBUTION



\*) Luminous flux values (column 'Output') and dissipated power data (column 'Power') in the table above apply to CCT setting 3000 K. The luminous flux level at 3500 K or 4000 K can be derived by multiplying a corresponding value from the table by respectively 1.05 and 1.02. The power dissipation can be derived by multiplying the corresponding data by respectively 0.97 and 0.99.



Pro-Fusion 200



Pro-Fusion S160

## OPTIONS & ACCESSORIES

Surface mount enclosures  
 Emergency kit incl. LiFePO4-battery  
 Spare (replacement) LiFePO4-battery

Item no.	Description
40002901	Pro-Fusion 120, Surface mount enclosure, Ø 145 x H 93 mm
40002902	Pro-Fusion 160, Surface mount enclosure, Ø 190 x H 93 mm
40002903	Pro-Fusion 200, Surface mount enclosure, Ø 228 x H 100 mm
40002905	Pro-Fusion, Emergency kit, 3 h, Auto test, including LiFePO4-battery
40002908	Spare (replacement) LiFePO4-battery for emergency kit (40002905)



40002901



40002905



40002902



40002908

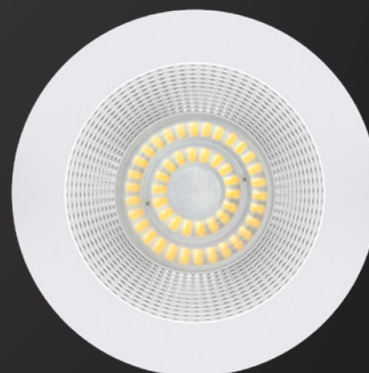


40002903



UTILITY

HOUSING



MORE INFO ABOUT  
 PRO-FUSION ONLINE:



## SENSOR FEATURES & SPECIFICATIONS

### Adjustable settings:

Detection range: 2 - 6 m <sup>(1)</sup>  
 Hold time: 10 sec. - 7 min.  
 Daylight sensitivity: 10 - 2000 lux

### Technical data:

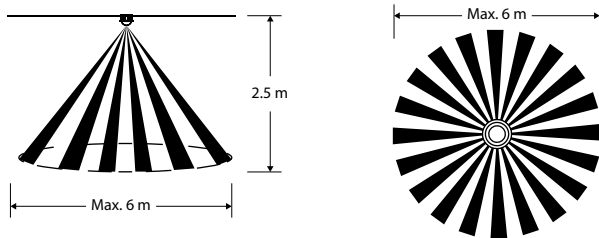
Sensor type: Passive infrared (PIR)  
 Operating voltage: 220-240 V AC  
 Master-slave max. load: Max. 100 W  
 Power consumption: 1 W  
 Detection angle: 90°  
 Installation height: Min. 2 m / Max. 3.5 m <sup>(2)</sup>  
 Operating temperature: -20°C – +40°C



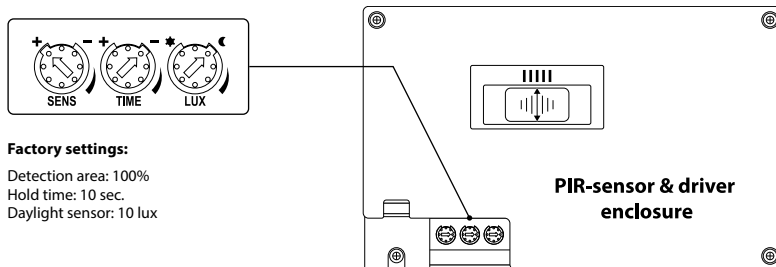
40002951 Pro-Fusion S160 | PIR | max. 12 W

1) Ground surface diameter at 2.5 m installation height.  
 2) Recommended height: 2.5 m.

### DETECTION RANGE DIAGRAM

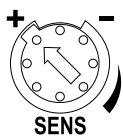


### ADJUSTABLE SETTINGS



**Factory settings:**  
 Detection area: 100%  
 Hold time: 10 sec.  
 Daylight sensor: 10 lux

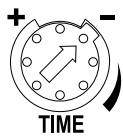
IP54



#### Detection area / Sensitivity

The detection area / sensitivity of the sensor can be adjusted by the knob "SENS". Turning clockwise increases the sensitivity to a maximum of Ø 6 m ground surface detection at 2.5 m installation height. Turning the knob anti-clockwise decreases the sensitivity to a minimum of Ø 2 m ground surface detection at 2.5 m installation height.

**NOTE:** The sensitivity setting may be affected by the ambient temperature in the installation environment.



#### Hold time

The hold time can be adjusted by the knob "TIME". Turning clockwise increases the hold time to a maximum of 7 minutes. Anti-clockwise decreases the hold time to a minimum of 10 sec.



#### Daylight sensor

The daylight threshold can be adjusted by the knob "LUX". Turning the knob clockwise increases the daylight threshold to a maximum of 2000 lux. Anti-clockwise decreases the daylight threshold to a minimum of 10 lux.

**NOTE:** The daylight threshold may be affected by the amount of (artificial) ambient light and behaviour may vary between different luminaires.

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**MORE INFO ABOUT  
PRO-FUSION ONLINE:**



**Version:** 1.1 - 2024-03

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