

Floodlight of the series PFM/NPFM LED

(for harsh industrial applications)

Lighting under harsh conditions

The new series of energy-saving floodlights PFM/NPFM in LED technique is especially suited for all general lighting applications in industrial areas with harsh environmental conditions as vibrations, dust, moisture, corrosive atmospheres and extreme temperatures.

Replacement of conventional light fittings from 50 W up to 1500 W

With a luminous flux of the light fittings from 3,189 lm up to 53,890 lm these floodlights can be used to replace comparable conventional light sources with an equivalent power consumption from 50 W up to 1500 W.

High efficient LED technology

High efficient power LED module and more than 112 Lumen/Watt enables up to 70 % energy-cost savings compared to conventional HID lamps.

Long live-time and nearly maintenance-free

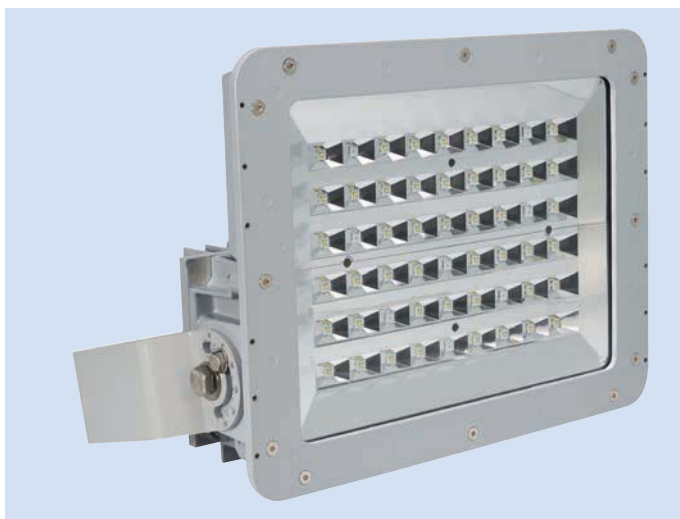
A very long and nearly maintenance-free lifetime of up to 150,000 h significantly reduces the total cost of ownership.

Wide temperature range for extreme conditions

Thanks to temperature range from - 40 °C up to +65 ° the floodlights can be used in many applications.

Best lighting technology for numerous applications

The wall- or pole-mounted floodlights can be used outdoor in high-bay and medium mounting heights for the lighting of production facilities of heavy industries, chemical and food industry, mining, terminals and tunnels.



Features

- High efficient LED floodlight with more than 112 Lumen/Watt
- Up to 150,000 h nearly maintenance free operating hours
- Wide temperature range from -40 °C up to +65 °C (depending on model)
- Compact enclosure for difficult installations
- Easy installation with swivel bracket
- High efficient heat sink design for an optimised temperature management
- Robust design and high degree of protection IP66 for harsh environments

Ordering details



Type	Lamp / illuminant	Rated luminous flux of the luminaire	Cable gland/thread	Screw plug	Order No..
PFM 3L - 15L LED					
PFM 3L CY/UNV1 76 M20	LED system 28 W ¹⁾	3,189 lm	2 x M20, metal thread	1 x M20	1 2565 533
PFM 5L CY/UNV1 76 M20	LED system 45 W ¹⁾	5,183 lm	2 x M20, metal thread	1 x M20	1 2565 534
PFM 7L CY/UNV1 76 M20	LED system 62 W ¹⁾	7,095 lm	2 x M20, metal thread	1 x M20	1 2565 536
PFM 9L CY/UNV1 76 M20	LED system 79 W ¹⁾	9,132 lm	2 x M20, metal thread	1 x M20	1 2565 537
PFM 11L CY/UNV1 76 M20	LED system 99 W ¹⁾	11,107 lm	2 x M20, metal thread	1 x M20	1 2565 538
PFM 13L CY/UNV1 76 M20	LED system 99 W ¹⁾	13,100 lm	2 x M20, metal thread	1 x M20	1 2565 539
PFM 15L CY/UNV1 76 M20	LED system 131 W ¹⁾	15,181 lm	2 x M20, metal thread	1 x M20	1 2595 605
PFM 3L CY/UNV1 76 M25	LED system 28 W ¹⁾	3,189 lm	2 x M25, metal thread	1 x M25	1 2565 540
PFM 5L CY/UNV1 76 M25	LED system 45 W ¹⁾	5,183 lm	2 x M25, metal thread	1 x M25	1 2565 541
PFM 7L CY/UNV1 76 M25	LED system 62 W ¹⁾	7,095 lm	2 x M25, metal thread	1 x M25	1 2565 542
PFM 9L CY/UNV1 76 M25	LED system 79 W ¹⁾	9,132 lm	2 x M25, metal thread	1 x M25	1 2565 543
PFM 11L CY/UNV1 76 M25	LED system 99 W ¹⁾	11,107 lm	2 x M25, metal thread	1 x M25	1 2565 544
PFM 13L CY/UNV1 76 M25	LED system 99 W ¹⁾	13,100 lm	2 x M25, metal thread	1 x M25	1 2564 387
PFM 15L CY/UNV1 76 M25	LED system 131 W ¹⁾	15,181 lm	2 x M25, metal thread	1 x M25	1 2595 609



NPFM 25L					
NPFM 25L CY/UNV1 76 M25	LED system 263 W ¹⁾	26,240 lm	2 x M25, metal thread, 1 x M25 cable gland Ø 10 - 16 mm	1 x M25	1 2433 691



NPFM 50L					
NPFM 50L CY/UNV1 76 M25	LED system 531 W ¹⁾	53,890 lm	2 x M25, metal thread, 1 x M25 cable gland Ø 10 - 16 mm	1 x M25	1 2442 808

¹⁾ Scope of delivery

Accessories



Type	Content	Part-No.	Order No..
SFA6	Slip fitter 2" for pole mounting	2049	3 2346 001 002

Metal cable glands see catalogue part 2: 2.3.12 ff

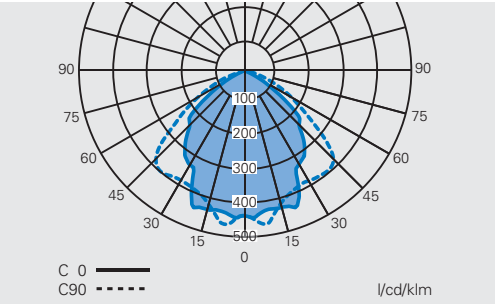
Visor, wire guard and safety cable on request

Dimension drawing / Polar curve

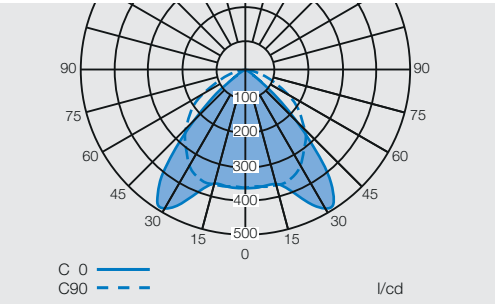
PFM/NPFM LED for harsh industrial applications

Dimension drawing / Polar curve

Polar curve PFM 3L - 15L



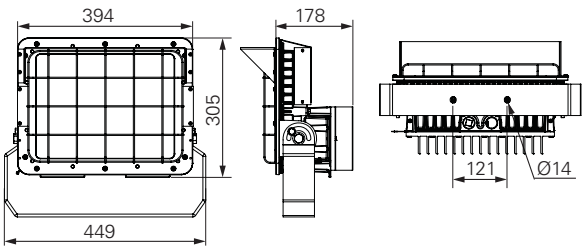
Polar curve NPFM 25L /50L



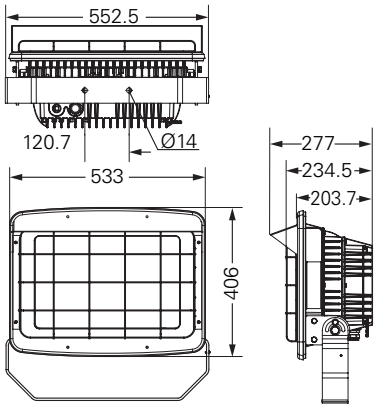
Weight and dimensions

PFM 3L - PFM 7L	
Dimensions (L x W x H)	394 x 178 x 305 mm
Weight	13.9 kg
PFM 9L - PFM 15L	
Dimensions (L x W x H)	394 x 178 x 305 mm
Weight	14.4 kg
NPFM 25L	
Dimensions (L x W x H)	533 x 204 x 406 mm
Weight	23.6 kg
NPFM 50L	
Dimensions (L x W x H)	553 x 204 x 825 mm
Weight	48.1 kg

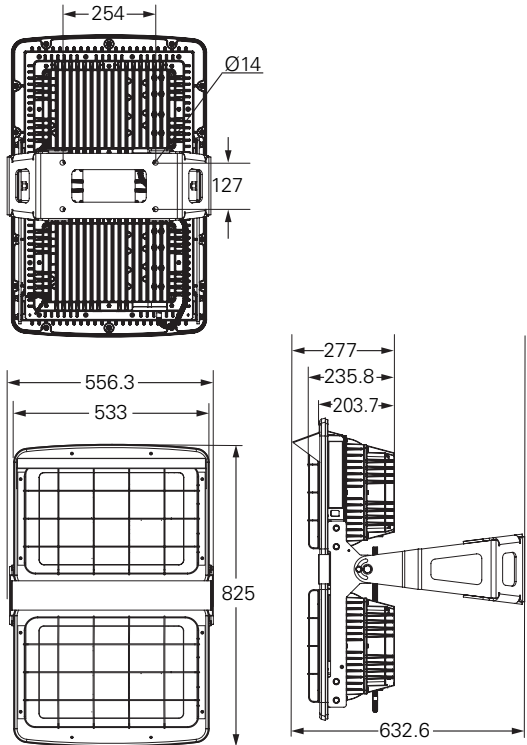
PFM 3L - 15L



NPFM 25L



NPFM 50L



Dimensions in mm



Technical data

	PFM 3L - 15L	NPFM 25L	NPFM 50L
Permissible ambient temperature	-40 °C up to +65 °C	-40 °C up to +55 °C	-40 °C up to +55 °C
Lifetime fixtures	L80 B10 - 50,000 h at $t_a = +65\text{ °C}$ / L80 B10 - 150,000 h at $t_a = +25\text{ °C}$	L80 B10 - 60,000 h at $t_a = +55\text{ °C}$ L80 B10 - 100,000 h at $t_a = +25\text{ °C}$	L80 B10 - 60,000 h at $t_a = +55\text{ °C}$ L80 B10 - 100,000 h at $t_a = +25\text{ °C}$
Rated voltage	100 - 277 V AC / 108 - 250 V DC	120 - 277 V AC 127 - 250 V DC	120 - 277 V AC 127 - 250 V DC
Frequency	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Power factor $\cos \varphi$	≥ 0.9	> 0.9	> 0.9
Circuit	electronic driver	electronic driver	electronic driver
Protection class	I	I	I
Lamp / Illuminant	LED system 28 - 131 W	LED system 263 W	LED system 531 W
Light colour / CR	5000 K / R_a 70; 3000 K / R_a 80 on request	5000 K / R_a 70	5000 K / R_a 70
Optic	wide-angle (narrow-angle on request)	wide-angle (narrow-angle on request)	wide-angle (narrow-angle on request)
Dimensions (L x W x H)	394 x 178 x 305 mm	533 x 204 x 406 mm	533 x 204 x 825 mm
Terminals	L, N and PE; 2 x 4 mm ²	L, N and PE; 2 x 4 mm ²	L, N and PE; 2 x 4 mm ²
Enclosure colour	grey	grey	grey
Enclosure material	light alloy with powder coating	light alloy with powder coating	light alloy with powder coating
Weight	13.9 kg (PFM3L - PFM7L) / 14.5 kg (PFM9L - PFM15L)	23.6 kg	48.1 kg
Cable gland / gland plates / enclosure drilling	thread 2 x M20 x 1.5, 1 x M20 plugged, or thread 2 x M25 x 1.5, 1 x M25 plugged ¹⁾	2 x M20 x 1.5, 1 x M20 plugged, or 2 x M25 x 1.5, 1 x M25 plugged ¹⁾	2 x M20 x 1.5, 1 x M20 plugged, or 2 x M25 x 1.5, 1 x M25 plugged ¹⁾
Type of mounting	mounting bracket	mounting bracket	mounting bracket
Degree of protection accd. to EN 60529	IP66	IP66	IP66
Protective cover / protective bowl	borosilicate glass ²⁾	borosilicate glass ²⁾	borosilicate glass ²⁾

¹⁾ see ordering details

²⁾ Opaque cover and cover in polycarbonate on request