



# The essential lighting for the streets

## EssentialForce

With a measured efficacy of up to 150 lm/W and good optical performance the EssentialForce family ensures an optimal value for money solution, while complying with local application standards for street lighting.

### Benefits

- Die cast aluminium housing, Grey Munsel N6.5 painting.
- Two colour temperature options available (4000K and 5000K)
- For side entry applications (33–48 mm)
- Standard surge protection: 10kV/12kA.
- CISPR15 compliant dimmable driver.
- High transparency UV resistant polycarbonate (PC) lenses.
- Easy connection to tele management systems such as Interact City, with a standard 7-pin NEMA socket, allowing for remote lighting management.

### Features

- Affordable solution for Road and Street lighting.
- Optimal measured efficacy (of up to 150 lm/W)
- Lightweight and compact for ease of installation
- EssentialForce achieves energy savings of up to 55% versus conventional lighting alternatives, with an additional savings potential when combined with control and tele management systems (Interact City).
- Long Lifetime: 50.000 hours (@L70B50) at 35 °C.

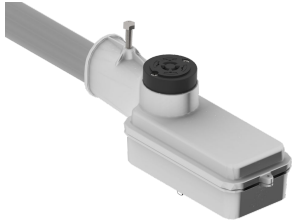
### Application

- Traffic routes: streets and avenues.
- Central areas: parks and plazas, pedestrian crossings, bike paths, parking areas.
- Large open areas: industrial yards, parking lots.

### Warnings and Safety

- Follow the mounting instructions provided by the manufacturer.

## Product details



EssentialForce

### General Information

Driver included	Yes
Light source replaceable	Yes

### Operating and Electrical

Surge Protection (Common/Differential)	Surge protection level until 10 kV differential mode and 10 kV common mode
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### Mechanical and Housing

Ingress protection code	IP66
Standard tilt angle posttop	-
Overall length	300 mm
Overall width	107 mm

### Approval and Application

Ambient temperature range	-5 to +50 °C
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### General Information

Order Code	Full Product Name	Lamp family code
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	LED-HP
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	LED-HP
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	LED-HP
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	LED-HP
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	LED-HP
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	LED-HP
919306035931	BRP230 LED29-2S WW 18W DMLN P7 0-10	LED-HP
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	LED-HP
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	LED-HP
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	LED-HP
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	LED-HP
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	LED-HP
919306036021	BRP230 LED75-2S WW 52W DMLN P7 0-10	LED-HP
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	LED-HP
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	LED-HP
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	LED-HP
919306039271	BRP230L LED112 NW 70W DML P7 0-10	-
919306039281	BRP230L LED112 CW 70W DML P7 0-10	-
919306039291	BRP230L LED99 NW 60W DML P7 0-10	-
919306039301	BRP230L LED102 CW 60W DML P7 0-10	-

## Light Technical (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	-	4000 K	>70	167 lm/W
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	-	4000 K	>70	161 lm/W
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	-	4000 K	>70	138 lm/W

Order Code	Full Product Name	Luminaire light beam spread	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	-	4000 K	70	161 lm/W
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	-	4000 K	70	150 lm/W
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	-	4000 K	70	138 lm/W
919306035931	BRP230 LED29-2S WW	-	3000 K	70	161 lm/W

Order Code	Full Product Name	Luminaire light beam spread	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
	18W DMLN P7 0-10				
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	-	4000 K	70	167 lm/W
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	-	3000 K	70	155 lm/W
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	-	4000 K	70	161 lm/W
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	-	3000 K	70	148 lm/W
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	-	4000 K	70	155 lm/W
919306036021	BRP230 LED75-2S WW	-	3000 K	70	144 lm/W

Order Code	Full Product Name	Luminaire light beam spread	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
	52W DMLN P7 0-10				
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	-	4000 K	70	150 lm/W
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	-	3000 K	70	132 lm/W
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	-	4000 K	70	138 lm/W
919306039271	BRP230L LED112 NW 70W DML P7 0-10	70°	4000 K	≥70	160 lm/W
919306039281	BRP230L LED112 CW 70W DML P7 0-10	70°	5000 K	≥70	160 lm/W
919306039291	BRP230L LED99 NW 60W DML P7 0-10	70°	4000 K	≥70	165 lm/W
919306039301	BRP230L LED102 CW 60W DML P7 0-10	70°	5000 K	≥70	170 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Number of light sources
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	3,000 lm	1
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	5,000 lm	1
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	9,000 lm	1
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	5,000 lm	-
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	7,800 lm	-
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	9,000 lm	-
919306035931	BRP230 LED29-2S WW 18W DMLN P7 0-10	2,900 lm	-
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	3,000 lm	-

Order Code	Full Product Name	Luminous Flux	Number of light sources
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	4,800 lm	-
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	5,000 lm	-
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	6,200 lm	-
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	6,500 lm	-
919306036021	BRP230 LED75-2S WW 52W DMLN P7 0-10	7,500 lm	-
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	7,800 lm	-
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	8,600 lm	-
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	9,000 lm	-
919306039271	BRP230L LED112 NW 70W DML P7 0-10	11,200 lm	-

Order Code	Full Product Name	Luminous Flux	Number of	
			light sources	
919306039281	BRP230L LED112 CW 70W DML P7 0-10	11,200 lm	-	
919306039291	BRP230L LED99 NW 60W DML P7 0-10	9,900 lm	-	

Order Code	Full Product Name	Luminous Flux	Number of	
			light sources	
919306039301	BRP230L LED102 CW 60W DML P7 0-10	10,200 lm	-	

Operating and Electrical

Order Code	Full Product Name	Power Consumption
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	18 W
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	31 W
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	65 W
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	31 W
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	52 W
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	65 W
919306035931	BRP230 LED29-2S WW 18W DMLN P7 0-10	18 W
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	18 W
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	31 W
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	31 W

Order Code	Full Product Name	Power Consumption
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	42 W
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	42 W
919306036021	BRP230 LED75-2S WW 52W DMLN P7 0-10	52 W
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	52 W
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	65 W
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	65 W
919306039271	BRP230L LED112 NW 70W DML P7 0-10	70 W
919306039281	BRP230L LED112 CW 70W DML P7 0-10	70 W
919306039291	BRP230L LED99 NW 60W DML P7 0-10	60 W
919306039301	BRP230L LED102 CW 60W DML P7 0-10	60 W

Controls and Dimming

Order Code	Full Product Name	Dimmable	Maximum dim	
			level	
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	Yes	-	
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	Yes	-	
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	Yes	-	
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	0-10V	-	
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	0-10V	-	
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	0-10V	-	
919306035931	BRP230 LED29-2S WW 18W DMLN P7 0-10	0-10V	-	
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	0-10V	-	
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	0-10V	-	

Order Code	Full Product Name	Dimmable	Maximum dim	
			level	
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	0-10V	-	
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	0-10V	-	
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	0-10V	-	
919306036021	BRP230 LED75-2S WW 52W DMLN P7 0-10	0-10V	-	
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	0-10V	-	
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	0-10V	-	
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	0-10V	-	
919306039271	BRP230L LED112 NW 70W DML P7 0-10	Yes	1%	
919306039281	BRP230L LED112 CW 70W DML P7 0-10	Yes	1%	
919306039291	BRP230L LED99 NW 60W DML P7 0-10	Yes	1%	
919306039301	BRP230L LED102 CW 60W DML P7 0-10	Yes	1%	

Mechanical and Housing

Order Code	Full Product Name	Housing Color	Mech. protection			Overall height
			impact code	Standard tilt angle side entry		
919306032931	BRP230 LED30 NW 18W DMLN P7 0-10 SRG12KA	Gray	IK08	-	137 mm	
919306032941	BRP230 LED50 NW 31W DMLN P7 0-10 SRG12KA	Gray	IK08	-	137 mm	

Order Code	Full Product Name	Housing Color	Mech. protection			Overall height
			impact code	Standard tilt angle side entry		
919306032971	BRP230 LED90 NW 65W DMLN P7 0-10 SRG12KA	Gray	IK08	-	137 mm	
919306035591	BRP230 LED50 NW 31W DMLN P7 0-10 MX	Grey	IK08	0°	130 mm	

Order Code	Full Product Name	Housing Color	Mech. impact protection code	Standard tilt angle	Overall height
919306035611	BRP230 LED78 NW 52W DMLN P7 0-10 MX	Grey	IK08	0°	130 mm
919306035621	BRP230 LED90 NW 65W DMLN P7 0-10 MX	Grey	IK08	0°	130 mm
919306035931	BRP230 LED29-2S WW 18W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306035941	BRP230 LED30-2S NW 18W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306035961	BRP230 LED48-2S WW 31W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306035971	BRP230 LED50-2S NW 31W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306035991	BRP230 LED62-2S WW 42W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306036001	BRP230 LED65-2S NW 42W DMLN P7 0-10	Grey	IK08	0°	130 mm

Order Code	Full Product Name	Housing Color	Mech. impact protection code	Standard tilt angle	Overall height
919306036021	BRP230 LED75-2S WW 52W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306036031	BRP230 LED78-2S NW 52W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306036051	BRP230 LED86-2S WW 65W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306036061	BRP230 LED90-2S NW 65W DMLN P7 0-10	Grey	IK08	0°	130 mm
919306039271	BRP230L LED112 NW 70W DML P7 0-10	Gray	IK10	0°+5°-5°	137 mm
919306039281	BRP230L LED112 CW 70W DML P7 0-10	Gray	IK10	0°+5°-5°	137 mm
919306039291	BRP230L LED99 NW 60W DML P7 0-10	Gray	IK10	0°+5°-5°	137 mm
919306039301	BRP230L LED102 CW 60W DML P7 0-10	Gray	IK10	0°+5°-5°	137 mm

