

High power backlight (3FL series)

LS-3FL series · Backlights · 40 models

High power backlight (3FL) with SMD LEDs in luminous sizes from 29 x 29 up to 1000 x 1000 mm; SM3 connector up to 450 x 300 and 4-pin WS16/WS20 aviation connectors on large sizes.

Features

- High power backlight with SMD LEDs
- Installation by M3 nut slot or from the bottom side
- Three-colour RGB light source, size and height, wavelength/colour temperature, mounting and input wire length customization
- Interface: SM3 (1.3 pin) up to 450 x 300; 4-pin WS16 aviation connector 450 x 450 to 600 x 500; 4-pin WS20 aviation connector 600 x 600 to 1000 x 1000

Applications

- Contour dimension measurement
- Edge breakage detection
- Transparent object impurity detection
- Oral liquid height detection
- Contour detection (white background with contrasting black edges)



Colours

R	620-630 nm
G	520-530 nm
B	460-470 nm
W	6000-7500 K

Common specifications

Voltage	24 V DC
LED type	SMD
Installation method	M3 nut slot and bottom side installation
Wire length	500 mm (drawing)
Operating environment (indoor)	temperature 0~40 °C, humidity 20~85% (non condensing)
Working life	white: 30000 hours, red: 30000 hours (the value varies according to the use environment)
Power tolerance	actual product power within $\pm 10\%$ of the table is the normal range
Quality service	one year product warranty, technical support

Ordering code: LS-3FL<luminous surface length><luminous surface width>-<R/G/B/W/IR/UV>

Models

Model	Luminous size (mm)	Power red (W)	Power blue/white (W)	Long (mm)	Wide (mm)	High (mm)	Remarks
LS-3FL2929 colours: R, B, W	29x29	1.1	1.7	44	33	14	SM3 (1.3 pin) interface
LS-3FL5050 colours: R, B, W	50x50	2.1	2.5	80	60	20	SM3 (1.3 pin) interface
LS-3FL6060 colours: R, B, W	60x60	4.2	3.8	90	70	20	SM3 (1.3 pin) interface
LS-3FL7070 colours: R, B, W	70x70	3.7	4.8	100	80	20	SM3 (1.3 pin) interface

LS-3FL8080 colours: R, B, W	80x80	6.3	6.2	110	90	20	SM3 (1.3 pin) interface
LS-3FL9090 colours: R, B, W	90x90	6.3	6.9	120	100	20	SM3 (1.3 pin) interface
LS-3FL100100 colours: R, B, W	100x100	8.4	10.0	130	110	20	SM3 (1.3 pin) interface
LS-3FL120120 colours: R, B, W	120x120	16.9	15.4	150	130	20	SM3 (1.3 pin) interface
LS-3FL150150 colours: R, B, W	150x150	19.0	22.5	185	160	20	SM3 (1.3 pin) interface
LS-3FL180180 colours: R, B, W	180x180	24.2	21.1	194	214	21	SM3 (1.3 pin) interface
LS-3FL200100 colours: R, B, W	200x100	15.4	15.4	214	134	21	SM3 (1.3 pin) interface
LS-3FL200150 colours: R, B, W	200x150	23.0	23.0	214	184	21	SM3 (1.3 pin) interface
LS-3FL200200 colours: R, B, W	200x200	30.7	30.7	214	234	21	SM3 (1.3 pin) interface
LS-3FL250200 colours: R, B, W	250x200	38.4	38.4	264	234	21	SM3 (1.3 pin) interface
LS-3FL250250 colours: R, B, W	250x250	48.0	48.0	264	284	21	SM3 (1.3 pin) interface
LS-3FL300150 colours: R, B, W	300x150	34.6	34.6	314	184	21	SM3 (1.3 pin) interface
LS-3FL300200 colours: R, B, W	300x200	46.1	46.1	314	234	21	SM3 (1.3 pin) interface
LS-3FL300300 colours: R, B, W	300x300	69.1	69.1	314	334	21	SM3 (1.3 pin) interface
LS-3FL350250 colours: R, B, W	350x250	67.2	67.2	364	284	21	SM3 (1.3 pin) interface
LS-3FL350350 colours: R, B, W	350x350	94.1	94.1	364	384	21	SM3 (1.3 pin) interface
LS-3FL400200 colours: R, B, W	400x200	61.4	61.4	414	234	21	SM3 (1.3 pin) interface
LS-3FL400300 colours: R, B, W	400x300	92.2	92.2	434	334	21	SM3 (1.3 pin) interface
LS-3FL400400 colours: R, B, W	400x400	122.9	122.9	434	434	21	SM3 (1.3 pin) interface
LS-3FL450300 colours: R, B, W	450x300	103.7	103.7	464	334	21	SM3 (1.3 pin) interface
LS-3FL450450 colours: R, B, W	450x450	77.8	81.6	464	504	31	4-pin WS16 aviation interface
LS-3FL500300 colours: R, B, W	500x300	57.6	60.5	514	354	31	4-pin WS16 aviation interface
LS-3FL500400 colours: R, B, W	500x400	76.8	80.6	514	454	31	4-pin WS16 aviation interface
LS-3FL500500 colours: R, B, W	500x500	96.0	100.8	514	554	31	4-pin WS16 aviation interface
LS-3FL600300 colours: R, B, W	600x300	69.1	72.6	614	354	31	4-pin WS16 aviation interface
LS-3FL600400 colours: R, B, W	600x400	92.2	96.8	614	454	31	4-pin WS16 aviation interface