

# FS3

## 12V & 24V LED IP20 / 65 Flexible Strip Systems

### Key Features

- Energy saving LED solution, utilising multiple LEDs on a flexible backing
- Wide choice of fixed LED colour and RGB colour change options
- Quick and simple to install using the self adhesive backing
- Can be dimmed using the appropriate driver
- IP20 and IP65 versions available
- Standard and High Output LED options

### Lamp Colour Options

- CW** Cool White
- G** Green
- WW** Warm White
- RB** Royal Blue
- A** Amber
- RGB** Colour Change RGB
- R** Red

### Lamp Options

- 60 SMD (single colour) = 1m
- 66 RGB trinity SMD (colour change) = 1m
- 120 SMD (single colour) = 2m
- 132 RGB trinity SMD (colour change) = 2m
- 180 SMD (single colour) = 3m
- 188 RGB trinity SMD (colour change) = 3m
- 240 SMD (single colour) = 4m
- 300 SMD (single colour) = 5m
- 360 SMD (single colour) = 6m

### Materials

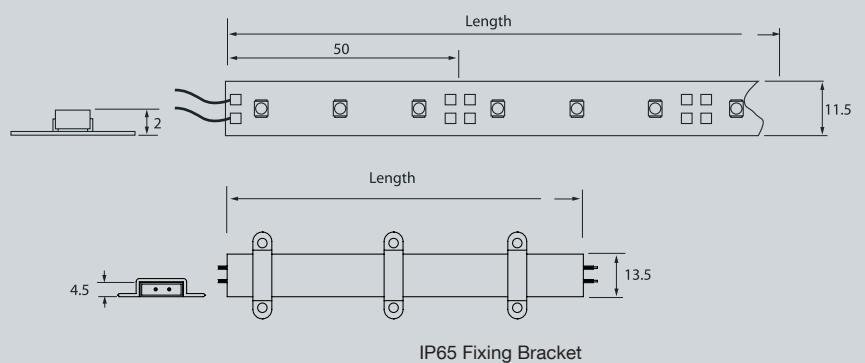
- Flexible circuit board

### Beam Angles



FS3 is a flexible linear strip populated with a series of individual surface mounted LEDs, available in standard and high output formats. Supplied by the metre, it is available in a wide variety of single colours as well as the RGB colour change option. A cut point is provided at intervals along the strip for total versatility. The flexible foil backing dissipates the heat from the LEDs thus improving LED life colour stability. The foil backing is supplied with a self adhesive surface for quick and simple installation.

### Dimensions (mm)



### Installation

- IP20 version suitable for interior applications
- IP67 version suitable for exterior applications supplied in flexible
- polycarbonate sleeve and c/w mounting clips
- Surface mount with self adhesive backing
- Cut points with solder connection points every 50mm
- IP20 versions available in 1m increments up to 6m for single colour, and up to 3m for RGB colour change
- IP67 versions available in up to 6m for single colour and up to 3m for RGB colour change
- Requires suitable power supply unit
- RGB versions supplied with 2m cable

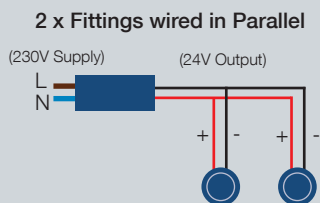
### Power Input

- 12V DC = Single Colour
- 24V DC = RGB

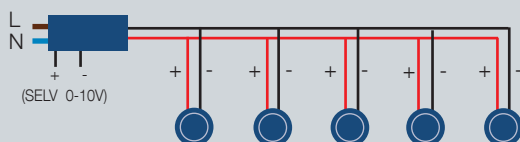
### Power Consumption

- 4.8W/m = Single Colour
- 15.84W/m = RGB

### Wiring Diagrams

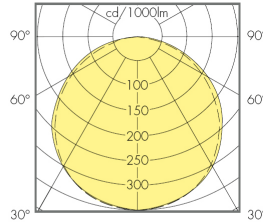


5 x Fittings wired in Parallel



### Photometric Data

Cat. No. FS3-20-1M-CWN

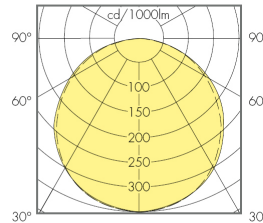


LOR: 1.00  
ULOR: 0.00  
DLOR: 1.00  
SHR nom: 1.5:1  
SHR max: 1.63:1

Utilisation factors / TM5

Reflectances			Room Index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
70	50	20	60	68	76	81	88	93	96	101	103
30	20		52	60	68	74	82	87	91	96	100
10			47	55	63	69	77	83	87	93	97
50	50	20	58	66	73	78	85	89	92	97	99
30			51	59	67	72	80	85	88	93	96
10			46	54	62	67	75	81	85	90	94
30	50	20	57	64	71	75	82	86	89	93	95
30			51	58	65	71	77	82	86	90	93
10			46	54	61	66	74	79	83	88	91
0	0	0	44	51	58	63	70	75	79	83	86
BZ-Class			4	4	4	4	4	4	4	4	4

Cat. No. FS3H-20-1M-CWN



LOR: 1.00  
ULOR: 0.00  
DLOR: 1.00  
SHR nom: 1.5:1  
SHR max: 1.63:1

Utilisation factors / TM5

Reflectances			Room Index								
C	W	F	0.75	1.0	1.25	1.5	2.0	2.5	3.0	4.0	5.0
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30			51	59	67	72	80	85	88	93	96
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0	0	0	44	51	58	63	70	75	79	83	86
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### Recommended Drivers & Cables

- Driver to be ordered separately
- Recommended fixed output driver Cat No: LS-12V20W
- LS-12V20W will drive up to 4m of fixed colour standard output FS3
- Recommended colour change driver Cat No: LS-RGB50
- LS-RGB50 will drive up to 3m of colour change FS3

### Ordering Codes

example: FS3H - 20-2M - RGB

Luminaire Type

FS3 - Flexible Strip  
H - For 24V only  
(Blank on 12V version)

Length  
(Meters)

Lamp Colour  
(see available colours)

IP Rating  
20 - Interior, 68 - Exterior