

# Value Flex G4

## Technical Datasheet



### Product description

Value Flex G4 is design for quality of light solution, widely used for embedded lighting. All series keep 3SDCM, CRI90, and 50,000hrs lifetime, fulfill project requirements. Non-IP version support package total length achieves 50meter per reel, suitable for customization length linear fixture.

### Key Features & Benefits

- Energy saving Low-power LED flexible strip
- Easy installation with Track
- Multi cut-able with CONNECT system
- Available in warm white and neutral white
- 3 SDCM, CRI90
- Non-IP and IP66 version available\*
- 120°viewing angle per module
- Dimmable
- Up to 50,000 hrs lifetime @  $t_c \text{ max}$

\*IP66 version if cut and re-connected by using OSRAM Connect system accessories, IP protect will be IP54.

### Applications

- Hospitality lighting
- Cabinet lighting
- Signage
- Architecture lighting
- Wall integration

# SPECIFICATION

The typical values involved in this specification are under the following conditions:

Product category	t <sub>c</sub> -normal
VF600-G4-9XX-05/ VF1000-G4-9XX-05/ VF1200S-G4-9XX-05	45 °C
VF2000-G4-9XX-05/ VF2400S-G4-9XX-05	55 °C
VFP600-G4-9XX-05/ VFP1000-G4-9XX-05/ VFP1200S-G4-9XX-05	40 °C
VFP2000-G4-9XX-05/ VFP2400S-G4-9XX-05	50 °C

## 1.1 Non-IP version

Product	Color	Voltage [VDC] *	Current/m [mA]*	Power/meter [W]*	Lumen/m [lm]*	Power/reel [W]*	Lumen/reel [lm]*	CRI	Color Temp [K]*	Operable length [mm]	Beam Angle [°]
VF600-G4-927-05	White	24	250	6	570	30	2850	90	2700	5000	120
VF600-G4-930-05	White	24	250	6	580	30	2900	90	3000	5000	120
VF600-G4-940-05	White	24	250	6	600	30	3000	90	4000	5000	120
VF600-G4-965-05	White	24	250	6	600	30	3000	90	6500	5000	120
VF1000-G4-927-05 (50) <sup>1</sup>	White	24	416.7	10	950	50	4750	90	2700	5000	120
VF1000-G4-930-05 (50) <sup>1</sup>	White	24	416.7	10	975	50	4875	90	3000	5000	120
VF1000-G4-940-05 (50) <sup>1</sup>	White	24	416.7	10	1000	50	5000	90	4000	5000	120
VF1000-G4-965-05	White	24	416.7	10	1000	50	5000	90	6500	5000	120
VF1200S-G4-927-05 (50) <sup>1</sup>	White	24	500.0	12	1100	60	5500	90	2700	5000	120
VF1200S-G4-930-05 (50) <sup>1</sup>	White	24	500.0	12	1150	60	5750	90	3000	5000	120
VF1200S-G4-940-05 (50) <sup>1</sup>	White	24	500.0	12	1200	60	6000	90	4000	5000	120
VF1200S-G4-965-05	White	24	500.0	12	1200	60	6000	90	6500	5000	120
VF2000-G4-927-05 (50) <sup>1</sup>	White	24	833.3	20	1850	95	8550	90	2700	5000	120
VF2000-G4-930-05 (50) <sup>1</sup>	White	24	833.3	20	1900	95	9025	90	3000	5000	120
VF2000-G4-940-05 (50) <sup>1</sup>	White	24	833.3	20	2000	95	9500	90	4000	5000	120
VF2000-G4-965-05	White	24	833.3	20	2000	95	9500	90	6500	5000	120
VF2400S-G4-927-05 (50) <sup>1</sup>	White	24	1000.0	24	2140	110	9800	90	2700	5000	120
VF2400S-G4-930-05 (50) <sup>1</sup>	White	24	1000.0	24	2200	110	10000	90	3000	5000	120
VF2400S-G4-940-05 (50) <sup>1</sup>	White	24	1000.0	24	2400	110	11000	90	4000	5000	120
VF2400S-G4-965-05	White	24	1000.0	24	2400	110	11000	90	6500	5000	120

<sup>1</sup>50meters length only for package standard value, support customer easy cutting and assembly, not allowed light up full reel at the same time. Listed specifications not for 50meters items, only for standard 5meter items.

## 1.2 IP version

Product	Color	Voltage [VDC] *	Current/m [mA]*	Power/meter [W]*	Lumen/m [lm]*	Power/reel [W]*	Lumen/reel [lm]*	CRI	Color Temp [K]*	Operable length [mm]	Beam Angle [°]
VFP600-G4-927-05	White	24	250	6	540	30	2700	90	2700	5000	120
VFP600-G4-930-05	White	24	250	6	550	30	2750	90	3000	5000	120
VFP600-G4-940-05	White	24	250	6	570	30	2850	90	4000	5000	120
VFP600-G4-965-05	White	24	250	6	570	30	2850	90	6500	5000	120
VFP1000-G4-927-05	White	24	416.7	10	900	50	4500	90	2700	5000	120
VFP1000-G4-930-05	White	24	416.7	10	950	50	4750	90	3000	5000	120
VFP1000-G4-940-05	White	24	416.7	10	980	50	4900	90	4000	5000	120
VFP1000-G4-965-05	White	24	416.7	10	980	50	4900	90	6500	5000	120
VFP1200S-G4-927-05	White	24	500.0	12	1050	60	5250	90	2700	5000	120
VFP1200S-G4-930-05	White	24	500.0	12	1100	60	5500	90	3000	5000	120
VFP1200S-G4-940-05	White	24	500.0	12	1150	60	5750	90	4000	5000	120
VFP1200S-G4-965-05	White	24	500.0	12	1150	60	5750	90	6500	5000	120
VFP2000-G4-927-05	White	24	833.3	20	1800	95	8550	90	2700	5000	120
VFP2000-G4-930-05	White	24	833.3	20	1850	95	8787	90	3000	5000	120
VFP2000-G4-940-05	White	24	833.3	20	1950	95	9260	90	4000	5000	120
VFP2000-G4-965-05	White	24	833.3	20	1950	95	9260	90	6500	5000	120
VFP2400S-G4-927-05	White	24	1000.0	24	2100	110	9625	90	2700	5000	120
VFP2400S-G4-930-05	White	24	1000.0	24	2150	110	10100	90	3000	5000	120
VFP2400S-G4-940-05	White	24	1000.0	24	2225	110	10550	90	4000	5000	120
VFP2400S-G4-965-05	White	24	1000.0	24	2225	110	10550	90	6500	5000	120

\*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

1. Testing based on tp=normal, one-meter data, tolerance of lumen flux is ±10%.
2. Tolerance of measurements for the color rendering Ra is ±2;
3. Tolerance of measurements for the Chromaticity Coordinate is ±0.005; the tolerance of CCT should be calculated accordingly.

## Operating data for complete reel

Item	VF600/VFP600	VF1000/VFP1000	VF1200S/VFP1200S	VF2000/VFP2000	VF2400S/VFP2400S
Driving modes	constant voltage	constant voltage	constant voltage	constant voltage	constant voltage
Supply voltage range	24.0 ± 1.0VDC	24.0 ± 1.0VDC	24.0 ± 1.0VDC	24.0 ± 1.0VDC	24.0 ± 1.0VDC
Supply current range/reel	1.25 A ± 10%	2.083 A ± 10%	2.0 A ± 10%	4.167 A ± 10%	5.0 A ± 10%
Power Range/reel @ tp=normal	30 W ± 10%	50 W ± 10%	60 W ± 10%	95 W ± 10%	110 W ± 10%
Reverse Protection	<25V	<25V	<25V	<25V	<25V
ESD protection	Contact 2KV, Air 4KV	Contact 2KV, Air 4KV	Contact 2KV, Air 4KV	Contact 2KV, Air 4KV	Contact 2KV, Air 4KV
Connection wire gauge	20AWG(0.519mm <sup>2</sup> )	20AWG(0.519mm <sup>2</sup> )	20AWG(0.519mm <sup>2</sup> )	20AWG(0.519mm <sup>2</sup> )	20AWG(0.519mm <sup>2</sup> )
Dimmable	Yes	Yes	Yes	Yes	Yes

Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

## Optical parameter

### 1.1 CCT and Color rendering parameters

Product	Tpy. CCT(K)	Min. CCT (K)	Max. CCT (K)	Ra
VFXXXX-G4-927-05 (50)	2700	2575	2825	90
VFXXXX-G4-930-05 (50)	3000	2850	3150	90
VFXXXX-G4-940-05 (50)	4000	3800	4200	90
VFXXXX-G4-965-05	6500	6000	7000	90
VFPXXXX-G4-927-05	2700	2575	2825	90
VFPXXXX-G4-930-05	3000	2850	3150	90
VFPXXXX-G4-940-05	4000	3800	4200	90
VFPXXXX-G4-965-05	6500	6000	7000	90

- \*1. Testing based on tp=normal, one-meter data.
2. Tolerance of measurements for the color rendering Ra is ±2;
3. Tolerance of measurements for the Chromaticity Coordinate is ±0.005; the tolerance of CCT should be calculated accordingly.

## 1.2 Brightness parameter

Product	CCT	Current(mA)	lumen flux/lm	
			Min.	Max.
VF600-G4-927-05	2700K	250	515	630
VF600-G4-930-05	3000K	250	525	635
VF600-G4-940-05	4000K	250	550	650
VF600-G4-965-05	6500K	250	550	650
VF1000-G4-927-05 (50)	2700K	466.7	900	1050
VF1000-G4-930-05 (50)	3000K	466.7	900	1050
VF1000-G4-940-05 (50)	4000K	466.7	950	1130
VF1000-G4-965-05	6500K	466.7	970	1130
VF2000-G4-927-05 (50)	2700K	833.3	1750	1900
VF2000-G4-930-05 (50)	3000K	833.3	1850	1950
VF2000-G4-940-05 (50)	4000K	833.3	1900	2100
VF2000-G4-965-05	6500K	833.3	1900	2200
VF1200S-G4-927-05 (50)	2700K	500.0	1050	1150
VF1200S-G4-930-05 (50)	3000K	500.0	1070	1170
VF1200S-G4-940-05 (50)	4000K	500.0	1120	1250
VF1200S-G4-965-05	6500K	500.0	1120	1250
VF2400S-G4-927-05 (50)	2700K	1000.0	2100	2300
VF2400S-G4-930-05 (50)	3000K	1000.0	2150	2350
VF2400S-G4-940-05 (50)	4000K	1000.0	2250	2500
VF2400S-G4-965-05	6500K	1000.0	2250	2500
VFP600-G4-927-05	2700K	250	490	590
VFP600-G4-930-05	3000K	250	500	600
VFP600-G4-940-05	4000K	250	525	635
VFP600-G4-965-05	6500K	250	525	635
VFP1000-G4-927-05	2700K	416.7	850	960
VFP1000-G4-930-05	3000K	416.7	880	980
VFP1000-G4-940-05	4000K	416.7	920	1020
VFP1000-G4-965-05	6500K	416.7	920	1020
VFP2000-G4-927-05	2700K	833.3	1700	1900
VFP2000-G4-930-05	3000K	833.3	1760	1950
VFP2000-G4-940-05	4000K	833.3	1800	2000
VFP2000-G4-965-05	6500K	833.3	1800	2000
VFP1200S-G4-927-05	2700K	500.0	1000	1150
VFP1200S-G4-930-05	3000K	500.0	1030	1150
VFP1200S-G4-940-05	4000K	500.0	1050	1200
VFP1200S-G4-965-05	6500K	500.0	1050	1200
VFP2400S-G4-927-05	2700K	1000.0	2000	2200
VFP2400S-G4-930-05	3000K	1000.0	2100	2250
VFP2400S-G4-940-05	4000K	1000.0	2150	2350
VFP2400S-G4-965-05	6500K	1000.0	2150	2350

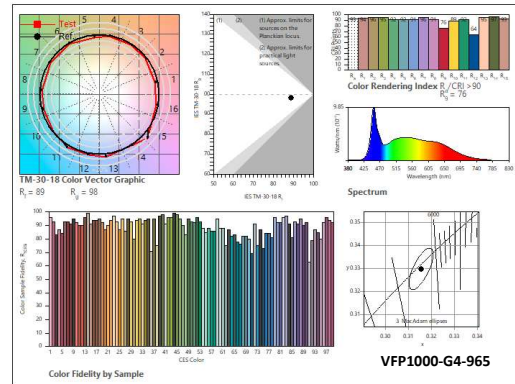
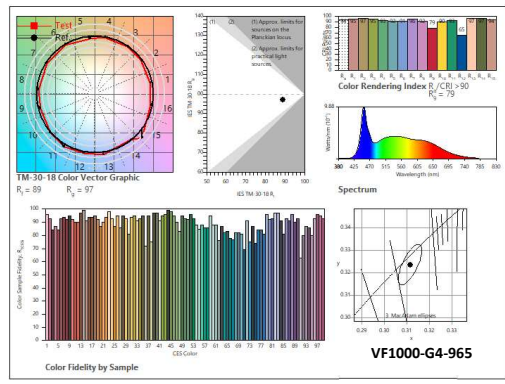
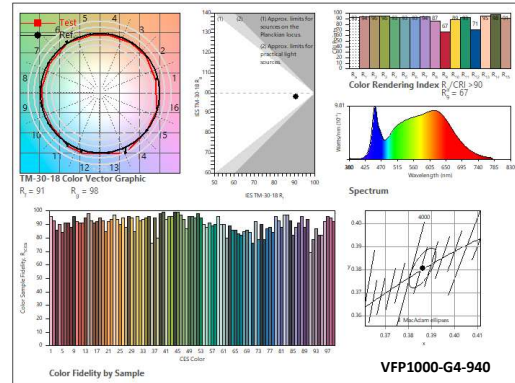
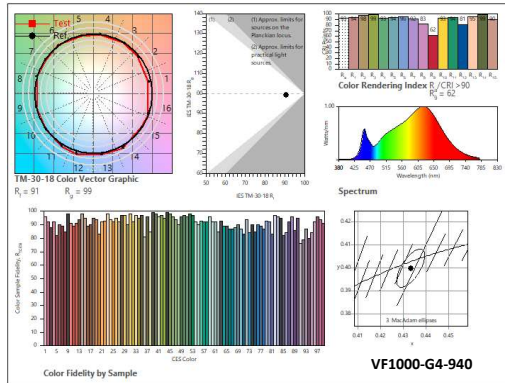
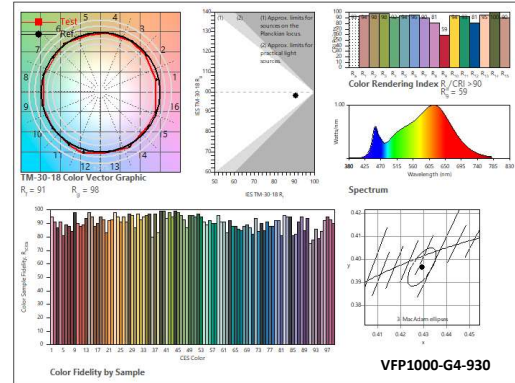
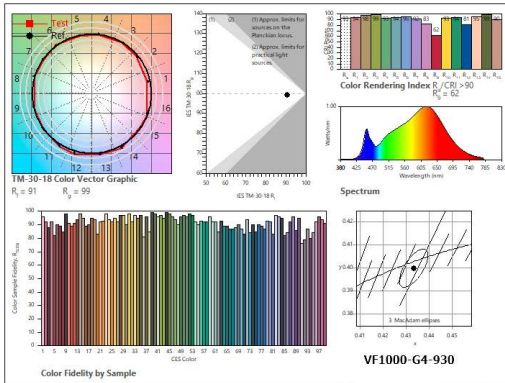
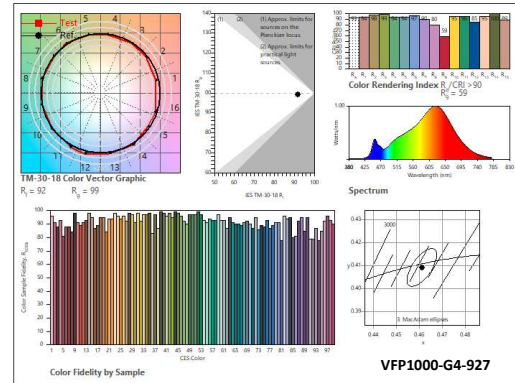
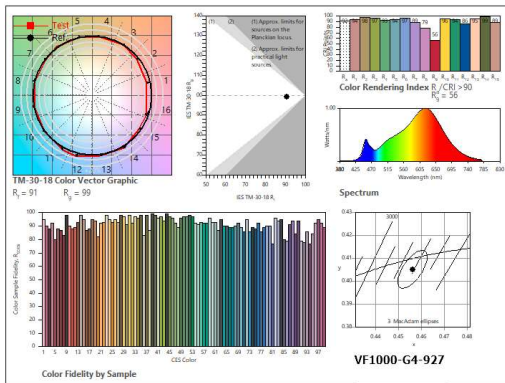
Remarks: Testing condition is DC 24V,  $t_p$ =normal, one-meter data.

- Exceeding maximum ratings for operating and storage temperature will reduce expected lifetime or destroy the LED Module.

- The temperature of the LED module must be measured at the  $t_c$ -point according to EN60598-1 in thermal stable status.

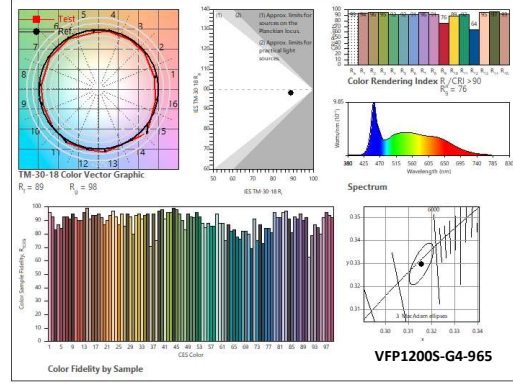
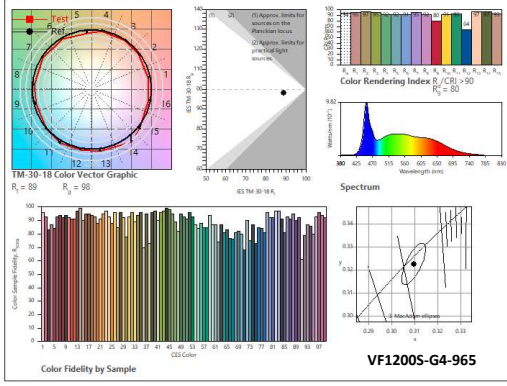
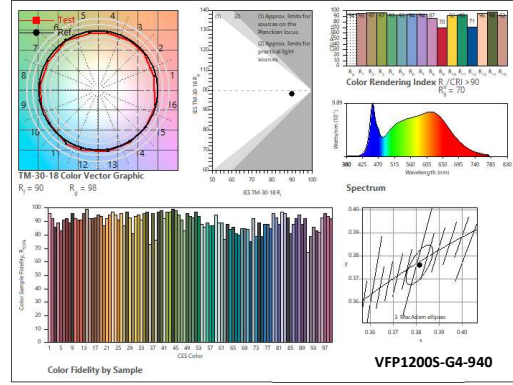
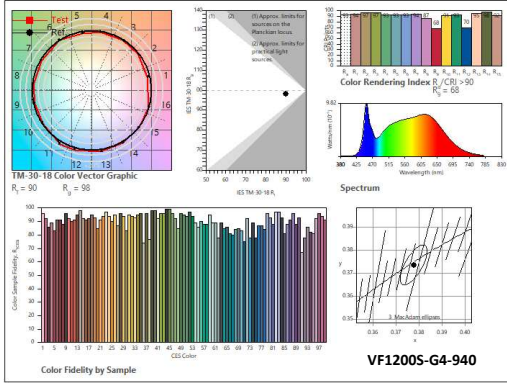
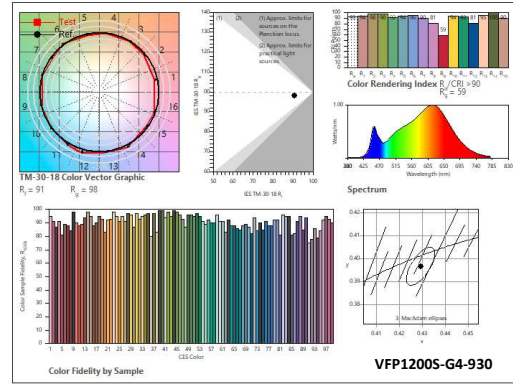
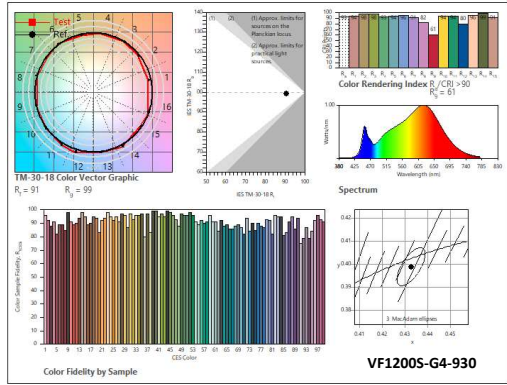
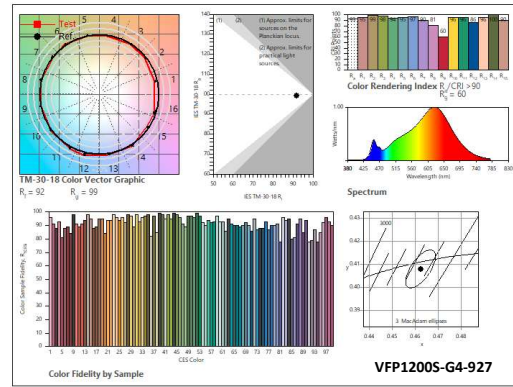
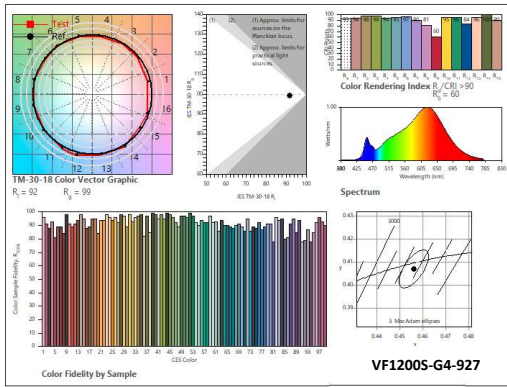
- Due to the special conditions of the manufacturing processes of LED, the typical data or calculated correlations of technical parameters can only reflect statistical figures. These do not necessarily correspond to the actual parameters of each single product, which could differ from the typical data and calculated correlations or the typical characteristic line. If requested, e.g. because of technical improvements, these typ. data will be changed without any further notice.

1.3.1 TM30 report\*

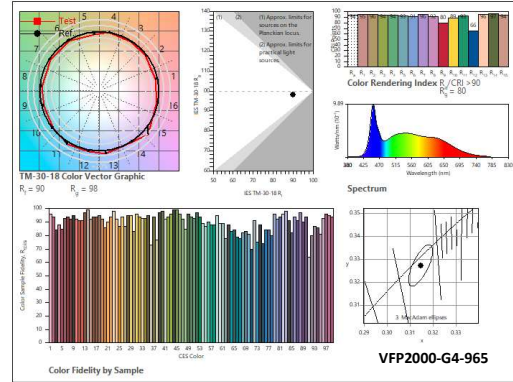
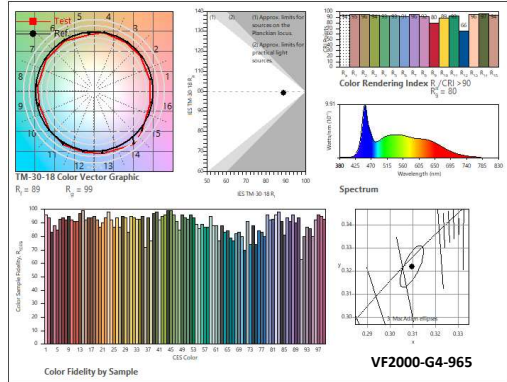
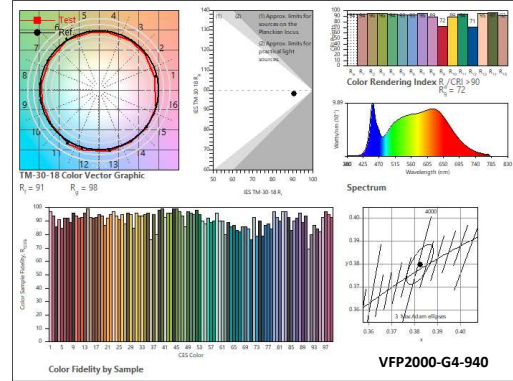
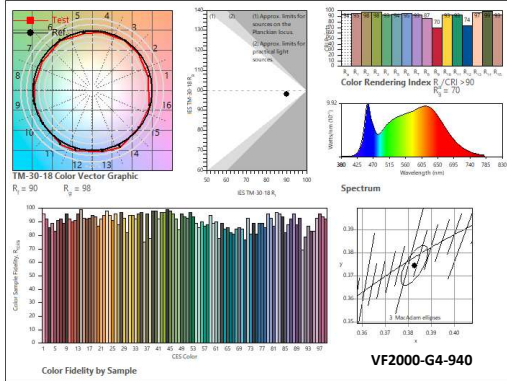
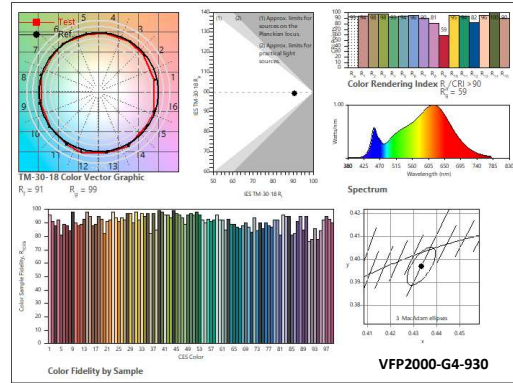
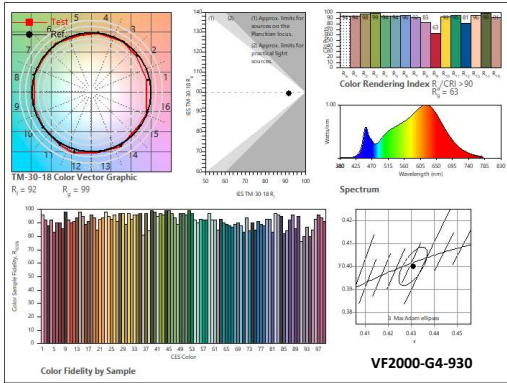
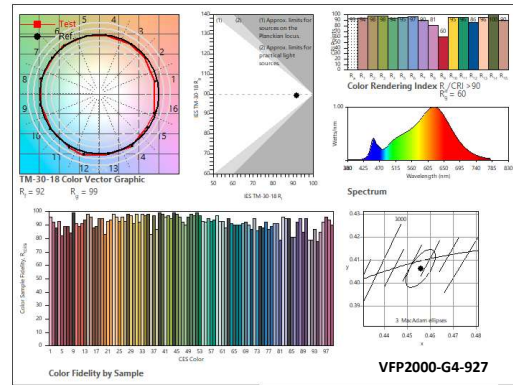
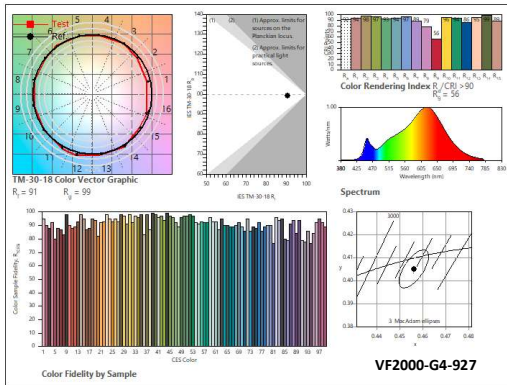


\*Due to LEDs specification tolerance impact, individual report data cannot represent for all good's actual parameters. Above TM30 report specified value only for reference.



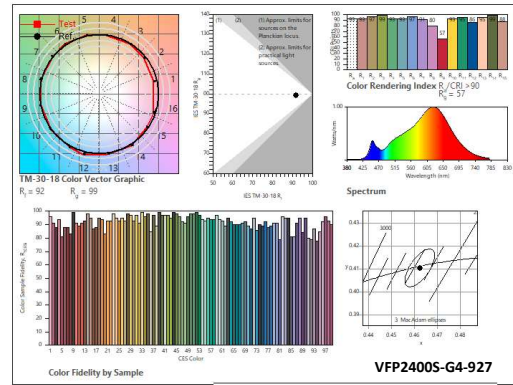
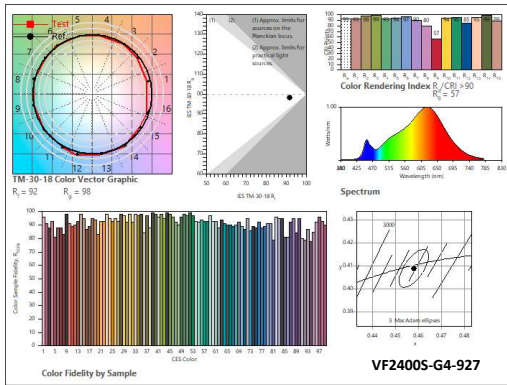


\*Due to LEDs specification tolerance impact, individual report data cannot represent for all good's actual parameters. Above TM30 report specified value only for reference.

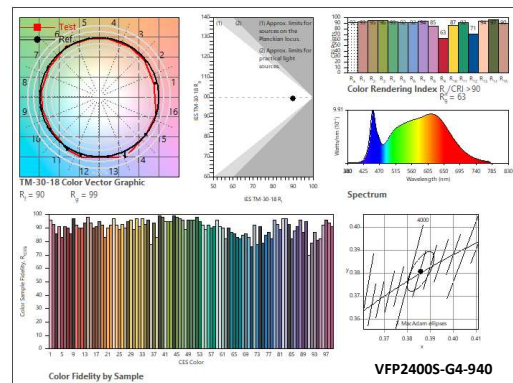
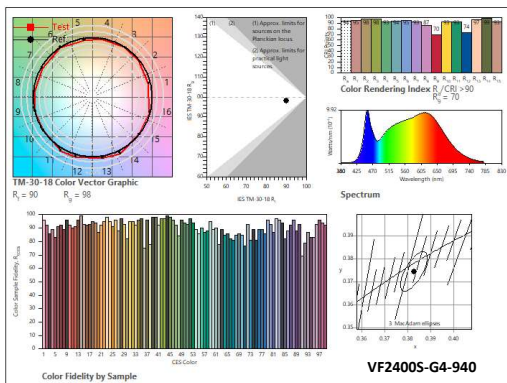
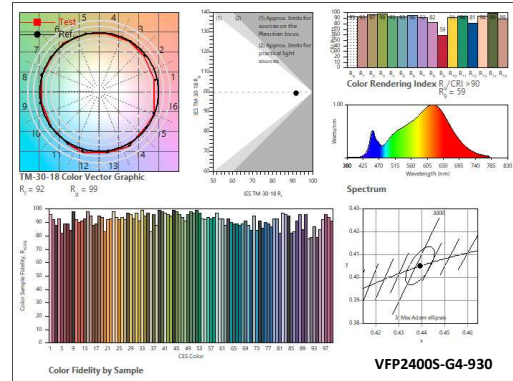


\*Due to LEDs specification tolerance impact, individual report data cannot represent for all good's actual parameters. Above TM30 report specified value only for reference.



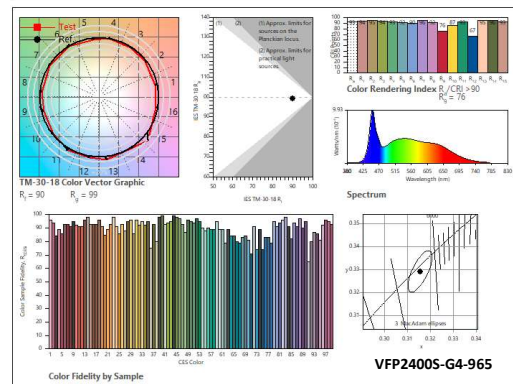
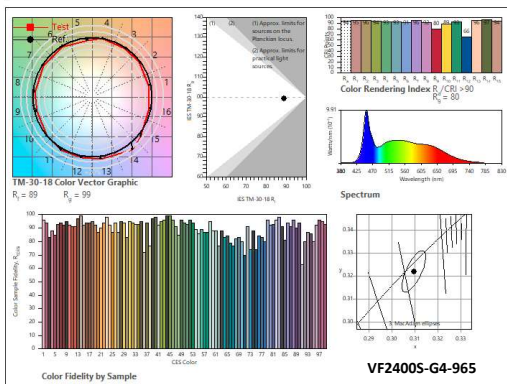


VF2400S-G4-930



VF2400S-G4-940

VFP2400S-G4-940



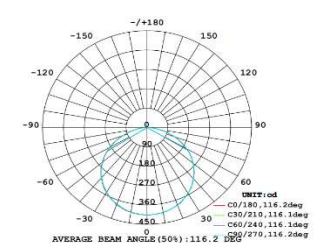
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VFP2400S-G4-965

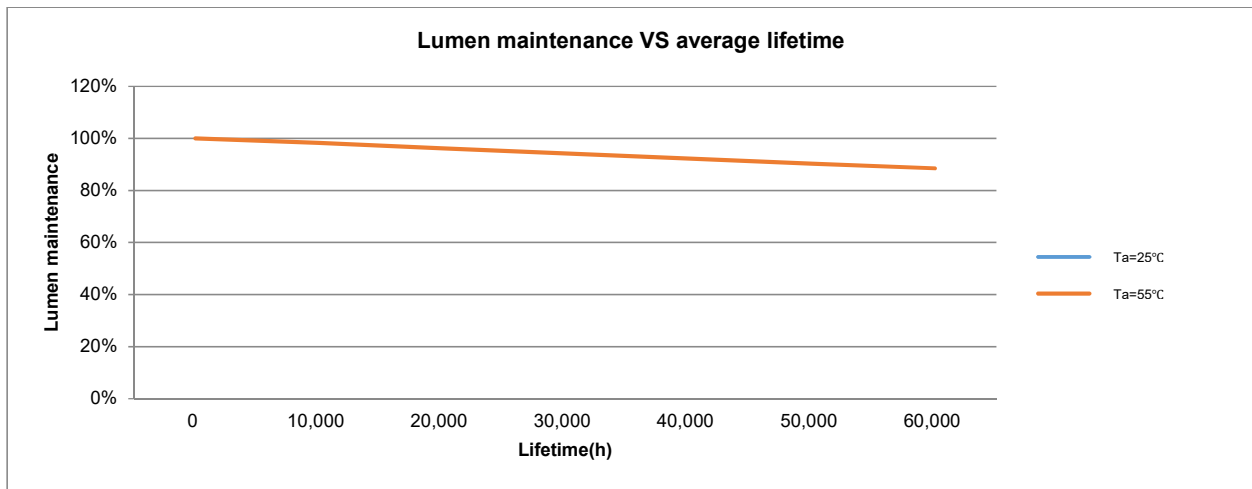
\*Due to LEDs specification tolerance impact, individual report data cannot represent for all good's actual parameters. Above TM30 report specified value only for reference.



### 1.4 Light distribution

Product	Distribution Graph	Beam angle range (2Xθ1/2)
VFXXXX-G4-9XX-05 (50) VFPXXXX-G4-9XX-05	<p style="text-align: center;">LUMINOUS INTENSITY DISTRIBUTION DIAGRAM</p> 	$110 \pm 10^\circ$

### 1.5 Lumen maintenance



## Environmental and Application Conditions

Items	Non-IP version		IP version	
	<b>Operating (case) temperature (t<sub>c</sub>)</b>	VF600-G4	75°C	VFP600-G4
VF1000-G4		75°C	VFP1000-G4	70°C
VF1200S-G4		75°C	VFP1200S-G4	70°C
VF2000-G4		85°C	VFP2000-G4	80°C
VF2400S-G4		85°C	VFP2400S-G4	80°C
<b>Operating (case) temperature range (t<sub>a</sub>)</b>	-25°C~55°C		-25°C~55°C	
<b>Storage temperature range</b>	-25°C~70°C		-25°C~70°C	
<b>IP rating</b>	NON-IP		IP66	
<b>Accessories IP rating</b>	NON-IP		IP54	
<b>Lifetime @ t<sub>c max</sub> (L70B50)</b>	50,000 hrs		50,000 hrs	
<b>Minimum bending radius</b>	20 mm		50 mm	

The modules are designed for operation with OPTOTRONIC® / Element Driver.

\*) Exceeding maximum ratings for operating and storage temperature will reduce expected lifetime or destroy the light engine. The temperature of the LED module must be measured at the t<sub>c</sub>-point according to EN60598-1 in thermally settled conditions with a temperature sensor.

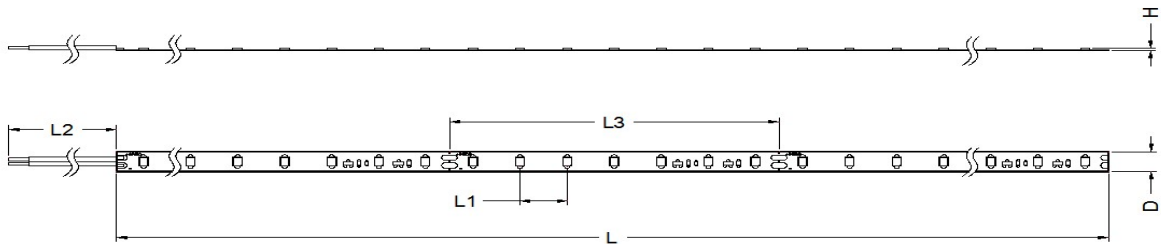
## Standards / Normative Requirements

Eye security	EN62471/EN62778
Combination with connector -FX-SC08-G2-CT2PF-0500 (2pin) -FX-SC08-G2-CT2PF-1000 (2pin) -FX-SC08-G2-C2PF-IP54-0500 (2pin with IP54 boot)	IEC60838
UV Proof	Only for IP version, ISO 4892-2 - Method A
Salt Mist Proof	Only for IP version, IEC 60068-2-52 severity 1
RoHS/Reach	Yes
CE	Yes

## Product Drawing

### Non-IP version

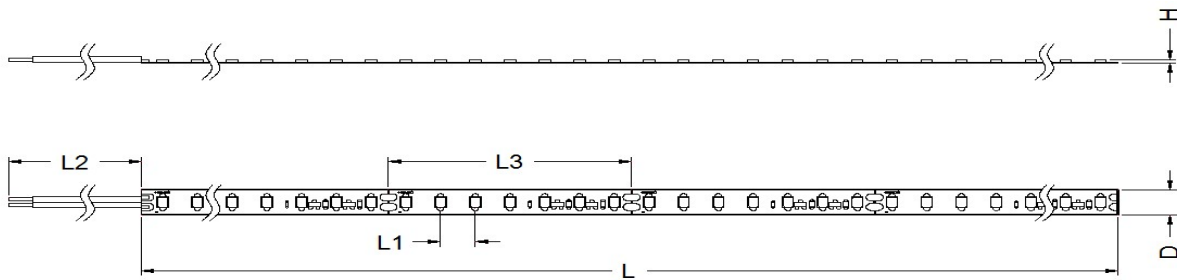
VF600-G4-9XX-05/VF1000-G4-9XX-05 (50)/VF2000-G4-9XX-05 (50)



Dimension/mm	VF1000-G4-9XX-05 (50)/ VF2000-G4-9XX-05 (50)						
	L1	L2	L3	D	H	L Standard Reel/mm	L 50meter length Reel/mm
Min	14.26	495.00	99.80	7.80	1.20	4995.00	49950.00
Typ	14.29	500.00	100.00	8.00	1.35	5000.00	50000.00
Max	14.32	505.00	100.20	8.20	1.50	5005.00	50050.00

Remark: The C quantitative value (Does not contain 3 M glue height, does not contain end cap).  
The maximum package length is 50 meters, standard length is 5 meters

VF1200S-G4-9XX-05 (50)/VF2400S-G4-9XX-05 (50)

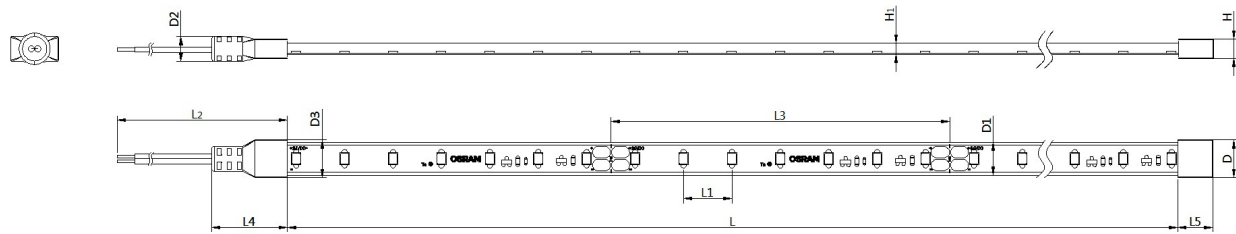


Dimension/mm	VF1200S-G4-9XX-05 (50)/VF2400S-G4-9XX-05 (50)						
	L1	L2	L3	D	H	L Standard Reel	L 50meter length Reel
Min	8.54	495.00	59.80	7.80	1.20	4975.00	49750.00
Typ	8.57	500.00	60.00	8.00	1.35	4980.00	49800.00
Max	8.60	505.00	60.20	8.20	1.50	4985.00	49880.00

Remark: The C quantitative value (Does not contain 3 M glue height, does not contain end cap).  
The maximum package length is 50 meters, standard length is 5 meters

**IP version**

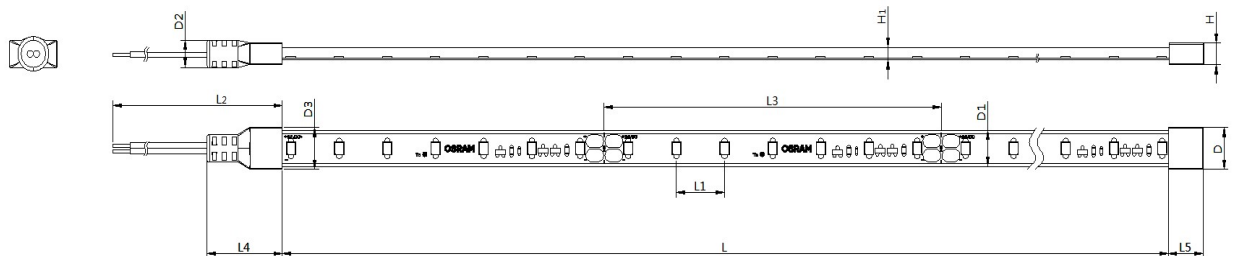
VFP600-G4-9XX-05/VFP1000-G4-9XX-05/VFP2000-G4-9XX-05



Dimension/mm	VFP1000-G4-9XX-05 / VFP2000-G4-9XX-05											
	L1	L2	L3	L4	L5	H1	H	D	D1	D2	D3	L
Min	14.28	495.00	99.80	30.50	12.00	3.80	5.50	11.90	10.70	8.00	11.90	4990.00
Typ.	14.29	500.00	100.00	31.50	13.00	4.10	6.00	12.20	11.00	9.00	12.20	5000.00
Max	14.30	505.00	100.20	32.50	14.00	4.40	6.50	13.00	11.30	10.00	13.00	5015.00

Remark: The C quantitative value (Does not contain 3 M glue height, does not contain end cap).

VFP1200S-G4-9XX-05/VFP2400S-G4-9XX-05



Dimension/mm	VFP1200S-G4-9XX-05 / VFP2400S-G4-9XX-05											
	L1	L2	L3	L4	L5	H1	H	D	D1	D2	D3	L
Min	8.54	495.00	59.80	30.50	12.00	3.80	5.50	11.90	10.70	8.00	11.90	4970.00
Typ.	8.57	500.00	60.00	31.50	13.00	4.10	6.00	12.20	11.00	9.00	12.20	4980.00
Max	8.60	505.00	60.20	32.50	14.00	4.40	6.50	13.00	11.30	10.00	13.00	4995.00

Remark: The C quantitative value (Does not contain 3 M glue height, does not contain end cap).



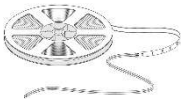
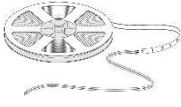
## System matching combination

Type	EAN list	model	Remark
On/Off	4052899605527	ELEMENT 60/220-240/24 G2 VS30 OSRAM	
	4052899605541	ELEMENT 120/220-240/24 G2 VS20 OSRAM	
	4052899605565	ELEMENT 180/220-240/24 G2 VS20 OSRAM	
	4052899545960	OT 60/220-240/24 P	
	4052899545984	OT 100/220-240/24 P	
	4052899546004	OT 130/220-240/24 P	
	4052899546028	OT 250/220-240/24 P	
	4062172085465	OT FIT 80/220-240/24 P	
	4062172085601	OT FIT 150/220-240/24 P	
	4062172085649	OT FIT 200/220-240/24 P	
4062172085687	OT FIT 300/220-240/24 P		
Dimmable	4052899529670	OT 60/100-200/24 DIM P G2	Suggest to matching 0-10V dimmer
	4052899529694	OT 90/100-200/24 DIM P G2	
	4052899529717	OT 150/100-200/24 DIM P G2	
	4052899605527	ELEMENT 60/220-240/24 G2 VS30 OSRAM	+ OTi DALI DIM 4008321061195
	4052899605541	ELEMENT 120/220-240/24 G2 VS20 OSRAM	
	4052899605565	ELEMENT 180/220-240/24 G2 VS20 OSRAM	
	4052899545960	OT 60/220-240/24 P	+ OTi DALI DIM 4008321061195
	4052899545984	OT 100/220-240/24 P	
	4052899546004	OT 130/220-240/24 P	
	4052899546028	OT 250/220-240/24 P	+ OTi DALI DIM 4008321061195
	4062172085465	OT FIT 80/220-240/24 P	
	4062172085601	OT FIT 150/220-240/24 P	
	4062172085649	OT FIT 200/220-240/24 P	
	4062172085687	OT FIT 300/220-240/24 P	
	4052899605527	Element 60/220...240/24 G2 VS30 OSRAM	+OT DIM 4050300943459
	4052899605541	Element 120/220...240/24 G2 VS20 OSRAM	
	4052899605565	Element 180/220...240/24 G2 VS20 OSRAM	
	4062172085465	OT FIT 80/220-240/24 P	+OT DIM 4050300943459
	4062172085601	OT FIT 150/220-240/24 P	
	4062172085649	OT FIT 200/220-240/24 P	
4062172085687	OT FIT 300/220-240/24 P		
4052899545847	OT 60/220-240/24 DIM P	Suggest to matching 0-10V dimmer	
4052899545861	OT 100/220-240/24 DIM P		
4052899545885	OT 130/220-240/24 DIM P		
4052899545908	OT 250/220-240/24 DIM P		

## Package and Order information

### Non-IP version

#### 1.1 Unit package information

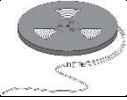

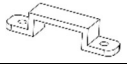
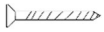
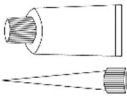
Component name	Quantity/unit package [PCS]	Picture
Value Flex G4 standard 5meters/reel	1	
Value Flex G4 50meters/reel	1	

#### 1.2 Order number

Model	EAN10	S-unit	EAN40	S-unit
VF600-G4-927-05	4052899622715	1	4052899622791	20
VF600-G4-930-05	4052899622722	1	4052899622807	20
VF600-G4-940-05	4052899622739	1	4052899622814	20
VF600-G4-965-05	4052899622746	1	4052899622821	20
VF1000-G4-927-05	4062172152723	1	4062172152747	20
VF1000-G4-927-50	4062172152761	1	4062172152778	5
VF1000-G4-930-05	4062172152785	1	4062172152808	20
VF1000-G4-930-50	4062172152815	1	4062172152822	5
VF1000-G4-940-05	4062172152839	1	4062172152853	20
VF1000-G4-940-50	4062172152860	1	4062172152877	5
VF1000-G4-965-05	4062172152884	1	4062172152907	20
VF1200S-G4-927-05	4062172152914	1	4062172152938	20
VF1200S-G4-927-50	4062172152945	1	4062172152952	5
VF1200S-G4-930-05	4062172152969	1	4062172152983	20
VF1200S-G4-930-50	4062172152990	1	4062172153003	5
VF1200S-G4-940-05	4062172153010	1	4062172153034	20
VF1200S-G4-940-50	4062172153041	1	4062172153058	5
VF1200S-G4-965-05	4062172153065	1	4062172153089	20
VF2000-G4-927-05	4062172153096	1	4062172153119	20
VF2000-G4-927-50	4062172153126	1	4062172153133	5
VF2000-G4-930-05	4062172153140	1	4062172153164	20
VF2000-G4-930-50	4062172153171	1	4062172153188	5
VF2000-G4-940-05	4062172153195	1	4062172153218	20
VF2000-G4-940-50	4062172153225	1	4062172153232	5
VF2000-G4-965-05	4062172153249	1	4062172153263	20
VF2400S-G4-927-05	4062172153270	1	4062172153294	20
VF2400S-G4-927-50	4062172153300	1	4062172153317	5
VF2400S-G4-930-05	4062172153324	1	4062172153348	20
VF2400S-G4-930-50	4062172153355	1	4062172153362	5
VF2400S-G4-940-05	4062172153379	1	4062172153393	20
VF2400S-G4-940-50	4062172153409	1	4062172153416	5
VF2400S-G4-965-05	4062172153423	1	4062172153447	20

## IP version

### 1.1 Unit package information




Component name	Quantity/unit package [PCS]	Picture
Value Flex G4 Standard 5meters/reel	1	
Endcap	10	
Bracket	20	
Screw	40	
Glue and Nozzles(45g) Only for EAN40 package	2	

### 1.2 Order number

Model	EAN10	S-unit	EAN40	S-unit
VFP600-G4-927-05	4052899622753	1	4052899622838	20
VFP600-G4-930-05	4052899622760	1	4052899622845	20
VFP600-G4-940-05	4052899622777	1	4052899622852	20
VFP600-G4-965-05	4052899622784	1	4052899622869	20
VFP1000-G4-927-05	4062172153454	1	4062172153478	20
VFP1000-G4-930-05	4062172153485	1	4062172153508	20
VFP1000-G4-940-05	4062172153515	1	4062172153539	20
VFP1000-G4-965-05	4062172153546	1	4062172153560	20
VFP1200S-G4-927-05	4062172153577	1	4062172153591	20
VFP1200S-G4-930-05	4062172153607	1	4062172153621	20
VFP1200S-G4-940-05	4062172153638	1	4062172153652	20
VFP1200S-G4-965-05	4062172153669	1	4062172153683	20
VFP2000-G4-927-05	4062172153690	1	4062172153713	20
VFP2000-G4-930-05	4062172153720	1	4062172153744	20
VFP2000-G4-940-05	4062172153751	1	4062172153775	20
VFP2000-G4-965-05	4062172153782	1	4062172153805	20
VFP2400S-G4-927-05	4062172153812	1	4062172153836	20
VFP2400S-G4-930-05	4062172153843	1	4062172153867	20
VFP2400S-G4-940-05	4062172153874	1	4062172153898	20
VFP2400S-G4-965-05	4062172153904	1	4062172153928	20

## Accessories Non-IP version



### 1.1 SLIMCONNECT SYSTEM G2 naked

Accessory name	EAN10 content [PCS]		Min. Package [PCS]		Picture
	Components	Qty	EAN Type	Qty	
FX-SC08-G2-CT2PF-0500	2pin feeder	1	EAN20	20	
FX-SC08-G2-CT2PF-1000	2pin feeder	1	EAN20	20	
FX-SC08-G2-CT4PJ	4pin Jumper	1	EAN20	25	

Model	EAN10	S-unit	EAN40	S-unit
FX-SC08-G2-CT2PF-0500	4052899464735	1	4052899464759	280
FX-SC08-G2-CT2PF-1000	4052899464766	1	4052899464780	280
FX-SC08-G2-CT4PJ	4052899464858	1	4052899464872	1250

## IP version

### 1.1 SLIMCONNECT SYSTEM G2 IP54

Accessory name	EAN10 content [PCS]		Min. Package [PCS]		Picture
	Components	Qty	EAN Type	Qty	
FX-SC08-G2-C2PF-IP54-0500 (2pin with IP54 boot)	2pin feeder IP54	1	EAN20	20	
FX-SC08-G2-BTJ-IP54 (IP54 boot)	Silicone boot for jumper to add IP54 protection	1	EAN20	25	

Model	EAN10	S-unit	EAN40	S-unit
FX-SC08-G2-C2PF-IP54-0500	4052899464889	1	4052899464902	280
FX-SC08-G2-BTJ-IP54	4052899568853	1	4052899568877	250

## Safety Information

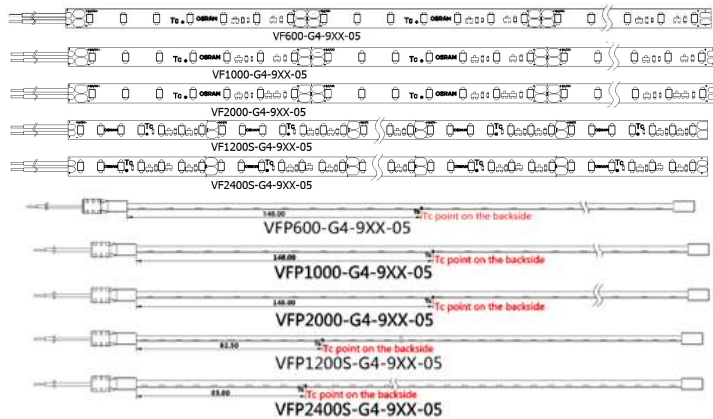
- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- To avoid mechanical damage, the LED modules should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Observe correct polarity! Incorrect polarity will lead to no light emission and may cause damage of the LED module.
- Parallel connection is highly recommended as safe electrical operation mode. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
- The maximum length is 7m[VF(P)600-G4/1000-G4/VF(P)1200S-G4], 6m[VF(P)2000-G4/VF(P)2400S] with power feed at one end.
- When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation at soldering points between module and the mounting surface,
- Pay attention to ESD steps when mounting the module.
- Please ensure that the power supply is of adequate power to operate the total load.



- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC® OT DIM, OT DALI DIM, OTI DALI DIM.
- Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable protection class.
- Recommended for indoor and semi-outdoor applications using.

## Assembly Information

- The smallest electrical unit (SEU) can be removed by cutting at the printed marks at the side.
- After cutting connect the module via IP66 CONNECT system. Insert module into connector and apply pressure on a hard surface until locked.
- The mounting of the single LED coupons is facilitated by means of the double-sided adhesive on the back surface of the module. Care must be taken to provide a clean and dry mounting surface, free of oils or silicone coatings as well as dirt particle. The mounting substrate must have sufficient structural integrity. Take care to completely remove the adhesive backing. Once the module is appropriately positioned, press on the module with about 20N/cm<sup>2</sup> (refer to application techniques of Tessa adhesive transfer tapes). To support adhesion at higher temperatures, use additional mounting brackets if temperature exceeds t<sub>c</sub> max. (VF600=75°C; VF1000=75°C; VF2000=85°C; VF1200S=75°C; VF2400S=85°C; VFP600=70°C; VFP1000=70°C; VFP2000=80°C; VFP1200S=70°C; VFP2400S=80°C).
- The minimum bending radius is 2 cm for Non-IP version, and 5 cm for IP version.
- When installing in environments with large variations in temperature (e.g. outdoor applications) and operating length of more than 2 m, the use of adequate mounting surfaces is necessary. Otherwise it is advisable to use an additional thicker adhesive tape to absorb the stress of any mismatch in expansion.
- Pay attention to avoid highly corrosive atmospheres, e.g. permanent high humidity or Hydrogen Sulfide (H<sub>2</sub>S). With current LED technology, H<sub>2</sub>S is causing accelerated corrosion which will lead to shortened time life or premature failure. Sources for H<sub>2</sub>S may be rubber, foamed rubber, soft-foam-tapes, sealing on rubber basis, natural sources (e.g. sulfur springs), etc. To avoid H<sub>2</sub>S from sulfur-vulcanized rubber it is necessary to switch to silicon-based materials or rubber that is Peroxid-crosslinked.
- Indication may be found in the material datasheet of the rubber supplier.
- t<sub>c</sub> point as below:



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<https://www.osram.com/ds>

Sales and technical support is given by the local OSRAM subsidiaries. Complete subsidiaries listing is available at OSRAM homepage.