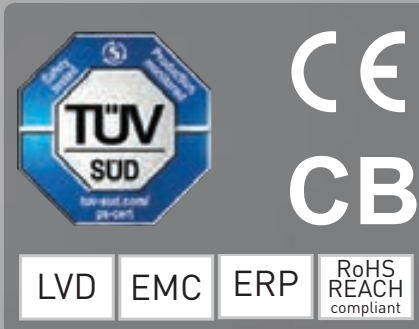


FUMAGALLI LED LAMPS

MODULAR SYSTEM



Innovative **TÜV certified LED lamps** with standard E27, GX53 ,R7s, GU10 or G9 lamp holder to get a very efficient LED lighting system. Heatsink and driver are built-in the lamps. LED modules can be easily replaced without the help of a qualified technician. Available in different wattage versions and color temperature. Moreover combining in series Fumagalli GX53 lamps you get a powerful and efficient public lighting system both on classic and modern luminaries.



BENEFITS:

- **COST SAVING:** long-life and efficient LED light sources.
- **BUILT-IN DRIVER:** quick and easy lamp replacement.
- **GREAT FLEXIBILITY:** standard lamp holder.
- **FUTURE-PROOFED LUMINARIES:** performances easy to upgrade to latest technology developments.
- **SUITABLE FOR OUTDOOR USE:** driver fully protected against heat and humidity by silicone paste.
- **TÜV CERTIFIED QUALITY:** Production monitored, CE marked, LVD and EMC tested, in compliance with the European Ecodesign Directive (ERP) and with RoHS and REACH directives. CB certified.



Power surges resistant

- **Wide voltage range (100-240V)** to protect the driver both from voltage droop and voltage overshoot, which are quite frequent in case of outdoor installations.
- **Double 400V capacitors** and multiple resistances to withstand power surges.
- **Silicone paste** to avoid – in case of voltage swings- the vibration of the electronic components of the driver and the consequent risk of components unsoldering.



Heat resistant - Working temperature -30°+80°C

- **Gold wire bonding:** Chips connected by pure gold wires, which are able to withstand at the highest and lowest temperatures and at temperature fluctuations between day and night. The gold wire bonding can grant a lumens maintenance factor > 80%.
- **Silicone paste:** Thermoconductive silicone paste with metal powder inside for helping heat dissipation and avoid overheating problems and for protecting the electronic components in case of high and low temperatures.



Humidity resistant - Weatherproof driver for a longer lifetime

- **Silicone paste:** The driver is fully enclosed in a special silicone paste, which ensures the highest driver protection against moisture and humidity up to 90%, both unavoidable in outdoor installations.



Tested according to :
EN 62560:2012/A1: 2015
IEC/TR 62778:2014
EN 62493:2015



LVD
TESTED

LVD Certificate: Fumagalli lamps fulfil the Low Voltage Directive 2014/35/EU, therefore are CE marked and comply with safety requirements like protection against electrical shock, moisture and heat resistance, resistance to flame and ignition.

EMC
TESTED

EMC Certificate: Fumagalli lamps meet the Electromagnetic Compatibility Directive 2014/30/EU and its amendments.

NEW
ERP

New ERP Attestation of conformity: Fumagalli lamps fulfil the NEW European Ecodesign Directive EU 2019/2020, which sets stricter energy efficiency requirements, new verification tolerances and other factors such as bulb lifetime and warm-up time.

CB
IECEE CB
SCHEME

IECEE CB Certificate: Fumagalli lamps meet the International System for Conformity and Certification of Electrotechnical Equipment allowing direct market access in more than 50 countries all over the world.

RoHS
REACH
COMPLIANT

RoHS REACH compliant: Fumagalli lamps fulfil the RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendments and the REACH regulation (EC) No. 1907/2006, regarding the concentration of Very High Concern Substances (SVHC).



R7s LED

TÜV CERTIFIED LED MODULES



HEATSINK

- Made by an aluminum tube on which the PCB is glued to.
- Special design to grant a correct heat dissipation



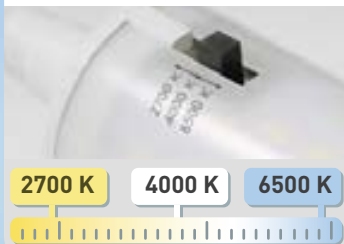
DRIVER 100-240V

- IC isolated driver technology.
- Wide voltage range: **100-240V** +/- 10% tolerance to protect the driver both from voltage droop and voltage overshoot.
- High quality capacitors and multiple resistances able to withstand power surges.



CCT SETTABLE

- Switch settable in three different positions, to select the desired Kelvin temperature (2700K, 4000K, 6500K) and get a customized ambiance.
- 2700K, 4000K and 6500K led chips on 3 separate circuits to grant SDCM < 6.



LENS

- Opal lens made of UV stabilized resin material to avoid yellowing process.
- Designed for granting 360° light distribution and for improving light efficiency.

GOLD WIRE BONDING

- LED chips connected by pure **gold wires** able to withstand at the highest and lowest temperatures and granting a **lumens maintenance factor > 80%**.
- SMD 3014 LED.



THERMOCONDUCTIVE SILICONE PASTE (7,5W-10,5W)

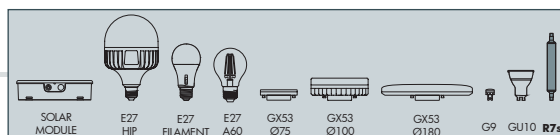
- To protect the driver against moisture and humidity up to **90%**, granting a longer product lifetime.
- To help heat dissipation thanks to the metal powder inside the paste, granting **-30°+80°C** working temperature.
- To avoid the vibration and the unsoldering of the electronic components of the driver.



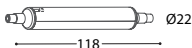
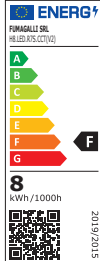
R7s LAMPHOLDER

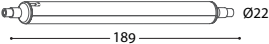
- Quick and easy lamp replacement and version upgrade.
- Made of steatite material to resist up to 250°.
- VDE certified.





R7s LED 78mm- CCT SETTABLE					
SIZE & SOCKET	R7s		POWER		
			3,5W		
 SDCM <6			2700 K		
			325 lm		
			4000 K		
 2019/2015			6500 K		
			365 lm		
			365 lm		
			VOLTAGE		
			100-240 V		
			FREQUENCY		
			50/60 Hz		
			DISPLACEMENT FACTOR		
			>0		
			PSTLM (NO FLICKER)		
			<1		
			SVM		
			0,4		
			CRI		
			> 80		
			SDCM		
			<6		
			SWITCHING CYCLE		
			45.000		
			WARM UP TIME		
			≤ 0,5"		
			LIFETIME		
			25.000 h		
			EFFICIENCY CLASS		
			F		
			REF. CODE		
			H7.LED.R7S.CCT		

R7s LED 118mm- CCT SETTABLE			
SIZE & SOCKET			POWER
	R7s		7,5 W
SILICONE PROTECTION DRIVER INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT  	CCT SETTABLE  2700 K 4000 K 6500 K		LUMINOUS FLUX (Φ TOTAL)
	2700 K		680 lm
	4000 K		775 lm
	6500 K		790 lm
	VOLTAGE		100-240 V
	FREQUENCY		50/60 Hz
	DISPLACEMENT FACTOR		>0,5
	PSTLM (NO FLICKER)		<1
	SVM		0,4
	CRI		> 80
SDCM		<6	
SWITCHING CYCLE		45.000	
WARM UP TIME		≤ 0,5"	
LIFETIME		25.000 h	
EFFICIENCY CLASS		F	
REF. CODE		H8.LED.R7S.CCT	

R7s LED 189mm- CCT SETTABLE			
SIZE & SOCKET			POWER
	R7s		10,5 W
SILICONE PROTECTION DRIVER INDOOR & OUTDOOR USE -30 +80 °C 90% HUMIDITY VOLTAGE SURGE RESISTANT	CCT SETTABLE 2700 K 4000 K 6500 K SDCM <6 		LUMINOUS FLUX (Φ TOTAL)
			2700 K
			4000 K
			6500 K
			VOLTAGE
			FREQUENCY
			DISPLACEMENT FACTOR
			PSTLM (NO FLICKER)
			SVM
			CRI
CE LVD EMC ERP TUV 3000	ENERGY+ FORMAGALLI SRL H9.120.R7S.CCT(VQ) A B C D E F G 11 kWh/1000h 2019/2015 QR CODE		1000 lm
			1130 lm
			1060 lm
			100-240 V
			50/60 Hz
			>0,7
			<1
			0,4
			> 80
			<6
		45.000	
		≤ 0,5"	
		25.000 h	
		F	
		REF. CODE	
		H9.LED.R7S.CCT	