



FUTURLED 3: the most successful generation of LED-based traffic signal modules

## FUTURLED3 TRAFFIC SIGNAL MODULES

### 12V DC / 24V AC/DC – ALTERNATIVE POWER SUPPLIES

THE STANDARD FOR HIGHEST OPTICAL PERFORMANCE – EN12368

With more than 2,500,000 FUTURLED3 units sold, SWARCO FUTURIT impressively underscores its outstanding position and know-how in LED signalling technology. Over 10 years of experience in the development and manufacture of LED-based signals allow us to offer highly reliable, state-of-the-art products. The central light source combined with the dual lens system enables a brilliant and very uniform signal display.

#### FUTURLED3: 12V DC / 24V AC/DC – EN12368 – ALTERNATIVE POWER SUPPLIES

SWARCO FUTURIT recognizes the increasing importance of alternative power supplies such as solar panels and fuel cells and therefore designed its high performance LED modules to comply with these new applications.



FUTURLED3: custom-made masks available

#### KEY BENEFITS

- no LED dots visible, very uniform signal glow – central light source
- high anti-phantom performance
- lowest power consumption and brilliant light output
- all products traceable by serial number
- custom-made masks display any symbol
- life cycle > 5 years
- optimum heat balance reduces degradation to a minimum
- automatic light compensation in case of diode failure
- proven technology
- also available with clear lens
- compatible with standard-conforming signal head housings

SWARCO FUTURIT is ISO 9001:2000 certified and the world's No. 1 manufacturer of high quality traffic signals.

**TECHNICAL DETAILS: FUTURLED3 12V DC / 24V AC/DC – EN12368**

FUTURLED 3		12V DC		24V AC/DC	
Diameter	Ø 210 mm	Ø 300 mm	Ø 210 mm	Ø 300 mm	
Luminous intensity acc. to EN12368	red > 200 cd amber > 200 cd green > 200 cd	red > 400 cd amber > 400 cd green > 400 cd	red > 200 cd amber > 200 cd green > 200 cd	red > 400 cd amber > 400 cd green > 400 cd	
Optical performance acc. to EN12368	B2/1, W	B3/1, N	B2/1, W	B3/1, N	
Colour acc. to EN12368	red 613.5-631 nm amber 585 - 597 nm green 498.5-508 nm white 5000 – 7000 K				
Uniformity of Luminance acc. to EN12368	better than 1 : 2.5				
LED type	High Flux				
Phantom light class	Class 4		Class 4		
Power Factor	> 0.9				
Operating Voltage	12V DC (+10%; - 15%)		24V AC/DC (+ 10%; - 15%)		
Frequency	-		24V AC: 50 Hz (+/- 5 %)		
Power consumption	red 4 W amber 4 W green 4 W white 4 W		red 12 W amber 12 W green 12 W white 12 W		
EMC	acc. EN 50293				
Cable	2 x 0.75 mm²; 1 m				
Ambient temperature range: acc. to EN12368	Class A, B, C				
Protection Class	Safety Class II acc. to EN 60598				
Tightness	IP 65 acc. to EN 60598				
Impact resistance	Class IR3; acc. to EN 60598-1				
Material of lens / housing	UV-stabilized polycarbonate				
Weight	< 1.0 kg	< 1.5 kg	< 1.0 kg	< 1.5 kg	
Dimensions (incl. front lens)	Ø 210 x 117 mm	Ø 300 x 149 mm	Ø 210 x 117 mm	Ø 300 x 149 mm	

**YOUR LOCAL CONTACT**



**SWARCO FUTURIT**

SWARCO FUTURIT is the leading global player in LED-based signalling technology. The company specialises in traffic lights, variable message signs, street lighting, in-road markers and railway signals using the very latest developments in light emitting diode (LED) technology offering ecological friendliness and the advantages of low failure rate, energy-saving and a long operating life.

Customers in over 60 countries around the world rely on the outstanding quality of SWARCO FUTURIT products, made in Austria to the highest standards and supporting road safety and improved traffic flows.

**SWARCO FUTURIT VERKEHRSSIGNALSYSTEME Ges.m.b.H**

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