## LINEAR RIGID ADVANCE



### LRAML-SW900-24V-28S103-20-IC

#### **PRODUCT DESCRIPTION**

- Voltage-based, rigid LED module
- Particularly suited for use in linear luminaires
- Simple system integration, thanks to its slim-line design
- Assembly options up to 4 metres
- Exceptional efficiency up to 150 lm / W
- Very high light quality and colour consistency (MacAdam 3)
- Available in 3000, 4000, and 5000 K
- Aluminium circuit board with optimised thermal management

#### **TECHNICAL DATA/OVERVIEW**

Operating voltage	24 VDC
Rated power	3 W
Rated current	0,125 A
LED type	SMD 4014
LED spacing	7,2 mm
LED quantity / module	28
Module efficiency	max. 150 lm / W
Colour rendering	Ra >90
Colour consistency	3 SDCM
Dimensions (I x w x h)	300 x 10 x 1,65 mm
Service life	50.000 h



Type of connection	Plug terminal blocks
Plug terminal block	2 x 1-pole Wago 2059
Max. wire cross section	0,5 mm <sup>2</sup>
Max. assembly length [m]	4,2

## CE WOHS &

#### **FULFILMENT OF STANDARDS**

EN 62031:2015	IEC 62717	2011/65/EU
EN 62471:2009	2014/35/EU	2009/125/EU







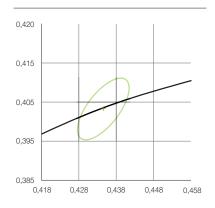
#### **SPECIFIC DATA OVERVIEW**

· · · · · · · · · · · · · · · · · · ·				:	
Item no.	Light colour	Nominal colour temp.	Typical lumen	Tolerance	Operating voltage
9009369	warm white	3000 K	355 lm	3 SDCM	24 VDC
9009370	neutral white	4000 K	383 lm	3 SDCM	24 VDC
9009371	cool white	5000 K	383 lm	3 SDCM	24 VDC

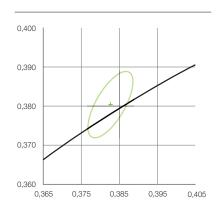
#### **PHOTOMETRIC DATA**

Nominal colour		Colour	Colour location	Typical luminous	Luminous flux	CRI	Beam
item no.	temperature	temperature	coordinates (x,y)	flux / m	tolerance	(Ra)	angle
9009369	3000 K	3041 K	0,4345 / 0,4033	384 lm	355 lm	≥ 90	120°
9009370	4000 K	3974 K	0,3827 / 0,3804	413 lm	383 lm	≥ 90	120°
9009371	5000 K	5012 K	0,3452 / 0,3558	413 lm	383 lm	≥ 90	120°

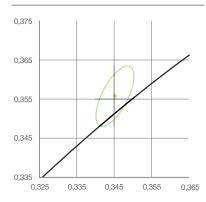
#### 3000 K



#### 4000 K



#### 5000 K







#### **ELECTRICAL DATA**

Item no.	Nominal voltage	Rated current	Rated power	Power consumption	Energy classification
9009369	24 VDC	0,125 A	3 W	3 kWh/1000h	A ++
9009370	24 VDC	0,125 A	3 W	3 kWh/1000h	A ++
9009371	24 VDC	0,125 A	3 W	3 kWh/1000h	A ++

#### **THERMAL DATA**

Item no.	Rated service life	Operating temp. according to IEC 62717	Operating temp. range	Tc point max. temp.	Ambient temperature
9009369	L80 B10 / 50.000 h	55 °C	-20 +80 °C	80 °C	-20 +80 °C
9009370	L80 B10 / 50.000 h	55 °C	-20 +80 °C	80 °C	-20 +80 °C
9009371	L80 B10 / 50.000 h	55 °C	-20 +80 °C	80 °C	-20 +80 °C

#### **FURTHER INFORMATION**

Item no.	max. modules in a row	Dimmable	IP rating	Water protection	Fixture
9009369	14 pcs.	yes	IP 00	_	M2 screw with PA washer
9009370	14 pcs.	yes	IP 00	_	M2 screw with PA washer
9009371	14 pcs.	yes	IP 00	_	M2 screw with PA washer

#### PRODUCT KEY DESCRIPTION

LFBML	SW800	24V	5S100	20
category	photometrical	voltage- / current-	layout code	protection
	Code	based		class

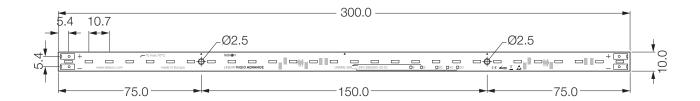


# LINEAR RIGID ADVANCE LRAML-SW900-24V-28S103-20-IC



#### **DIMENSIONS**

	:	:	:	:	1
Item no.	Length	Width	Height	LEDs / module	LED spacing
9009369	300 mm	10 mm	1,65 mm	28	7,2 mm
9009370	300 mm	10 mm	1,65 mm	28	7,2 mm
9009371	300 mm	10 mm	1,65 mm	28	7,2 mm



#### **ORDER INFORMATION**

Item no.	Item description	Nominal colour temperature	Packaging unit (PU)	Ordering unit
9009369	LRAML-SW930-24V-28S103-20-IC	3000 K	PU = 40	piece
9009370	LRAML-SW940-24V-28S103-20-IC	4000 K	PU = 40	piece
9009371	LRAML-SW950-24V-28S103-20-IC	5000 K	PU = 40	piece





## LINEAR RIGID ADVANCE LRAML-SW900-24V-28S103-20-IC



#### **INFORMATION ON SERVICE LIFE**

The maximum Tc/Tp temperature is a crucial factor for the service life information relating to ledxon LED modules.

If the permitted limits are exceeded, this shall significantly reduce the service life and may even result in the destruction of the modules.

The expected service life in hours represents a purely statistical parameter.

For optimum operation of ledxon LED modules, we recommend installation only on rigid and stationary surfaces.

The heatsink must provide for sufficient heat dissipation such that the maximum permitted temperature is not exceeded at the Tc point.

The temperatures at the Tc point must be measured in accordance with the specifications stated in EN 60598-1.

#### INFORMATION ON PHOTOMETRIC AND ELECTRICAL DATA

Capacity coordinates and tolerances in accordance with CIE 1931

Measurement environment temperature: ta = 25°

Measurement tolerance for colour coordinates (x / y) +/- 0.005

Tolerance range of photometric and electrical data +/-10%

The maximum permitted operating voltage must not be exceeded. Otherwise a reduction in service life or a failure may occur.

All ledxon LED modules can be dimmed using PWM (pulse width modulation).

#### SAFETY AND INSTALLATION INFORMATION

When installing ledxon RIGID LED modules, the relevant specifications and standards must be observed.

The modules must be de-energised when they are being connected. The correct polarity for the connection lines must be observed upon start-up. Incorrect polarity may result in the destruction of the LED modules. When installing these modules, standard ESD safety precautions must be complied with. ledxon RIGID LED modules are delivered without cabling. These modules are electrified by connecting leads to the provided plug terminal connection. The maximum permitted cable cross-section must be observed in this process. High mechanical load must be avoided during installation. Powerful compression forces, in particular on the light area, result in damage to the components as well as the conducting paths. We recommend using polyamide screws to secure the LED modules.

