



# LINEAR RIGID ADVANCE

## LRALL-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 5 metres
- Exceptional efficiency up to 144 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

<b>Operating voltage</b>	24 VDC
<b>Rated power</b>	1,5 W
<b>Rated current</b>	62,5 mA
<b>LED type</b>	SMD 4014
<b>LED spacing</b>	7,2 mm
<b>LED quantity / module</b>	28
<b>Module efficiency</b>	max. 144 lm / W
<b>Colour rendering</b>	Ra >90
<b>Colour consistency</b>	3 SDCM
<b>Dimensions (l x w x h)</b>	300 x 10 x 1,65 mm
<b>Service life</b>	50.000 h



### CONNECTION-RELATED INFORMATION

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



### FULFILMENT OF STANDARDS

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



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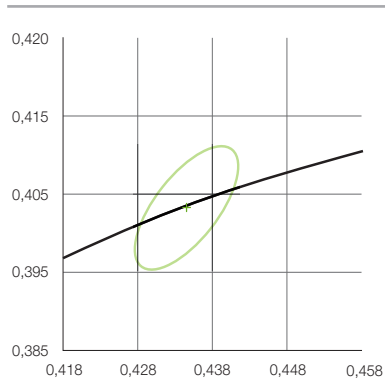
### SPECIFIC DATA OVERVIEW

Item no.	Light colour	Nominal colour temp.	Typical lumen	Tolerance	Operating voltage
9009363	warm white	3000 K	182 lm	3 SDCM	24 VDC
9009364	neutral white	4000 K	196 lm	3 SDCM	24 VDC
9009365	cool white	5000 K	196 lm	3 SDCM	24 VDC

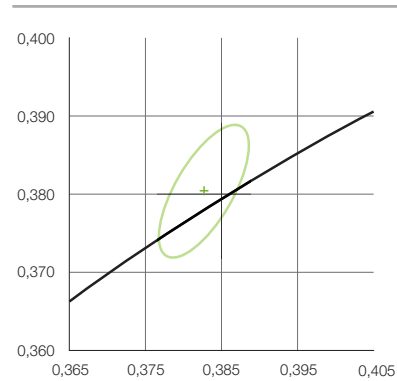
### PHOTOMETRIC DATA

Item no.	Nominal colour temperature	Colour temperature	Colour location coordinates (x,y)	Typical luminous flux / m	Luminous flux tolerance	CRI (Ra)	Beam angle
9009363	3000 K	3041 K	0,4345 / 0,4033	182 lm	± 8 %	≥ 90	120°
9009364	4000 K	3974 K	0,3827 / 0,3804	196 lm	± 8 %	≥ 90	120°
9009365	5000 K	5012 K	0,3452 / 0,3558	196 lm	± 8 %	≥ 90	120°

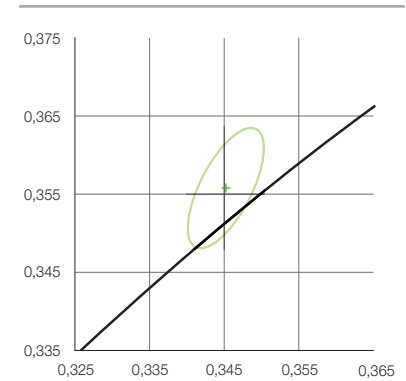
#### 3000 K



#### 4000 K



#### 5000 K





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### ELECTRICAL DATA

Item no.	Nominal voltage	Rated current	Rated power	Power consumption	Energy classification
9009363	24 VDC	0,0625 A	1,5 W	1,5 kWh/1000h	A ++
9009364	24 VDC	0,0625 A	1,5 W	1,5 kWh/1000h	A ++
9009365	24 VDC	0,0625 A	1,5 W	1,5 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
9009363	L80 B10 / 50.000 h	55 °C	-20 ... +80 °C	80 °C	-20 ... +80 °C
9009364	L80 B10 / 50.000 h	55 °C	-20 ... +80 °C	80 °C	-20 ... +80 °C
9009365	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
9009363	17 pcs.	yes	IP 00	—	M2 screw with PA washer
9009364	17 pcs.	yes	IP 00	—	M2 screw with PA washer
9009365	17 pcs.	yes	IP 00	—	M2 screw with PA washer

### PRODUCT KEY DESCRIPTION

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



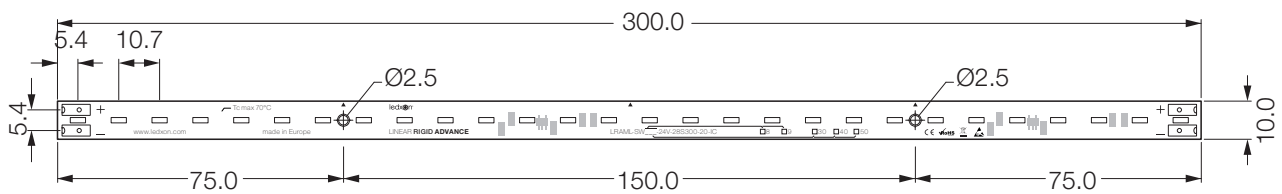
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### DIMENSIONS

Item no.	Length	Width	Height	LEDs / module	LED spacing
9009363	300 mm	10 mm	1,65 mm	28	7,2 mm
9009364	300 mm	10 mm	1,65 mm	28	7,2 mm
9009365	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 (OU)
9009363	LRALL-SW930-24V-28S103-20-IC	3000 K	PU = 40	piece
9009364	LRALL-SW940-24V-28S103-20-IC	4000 K	PU = 40	piece
9009365	LRALL-SW950-24V-28S103-20-IC	5000 K	PU = 40	piece



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### INFORMATION ON SERVICE LIFE

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The maximum  $T_c/T_p$  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  $T_c$  point.

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

### INFORMATION ON PHOTOMETRIC AND ELECTRICAL DATA

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Capacity coordinates and tolerances in accordance with CIE 1931

Measurement environment temperature:  $t_a = 25^\circ$

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

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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.