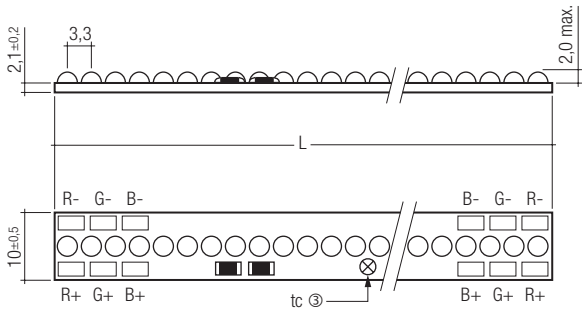
TALEX‹strip D109 / 110 / 111 RGB 24V

RoHS



Applications:
- TALEX‹strip modules for accenting lines, edges and for side injection with RGB colour mixing
- edge lighting
- suitable for use with TALEX‹profile Z200 / 201 / 202 / 203

Highlights:
- simple mounting by pre-assembled adhesive tape
- maximum possible beam angle for uniform illumination (thanks to COB technology)
- low profile
- minimal heat generation

Properties:
- 15 high-power COB LED per 50 mm
- RGB individually controllable
- dimmable by pulse width modulation (PWM) with TridonicAtco control units
- broad 140° light distribution for uniform illumination
- fixing: M3 plastic screw and/or pre-mounted thermal conductive adhesive tape
- minimal cooling required ③
- connection method: cable 200 mm, both sides
- identification of polarity: + red / – black

Notes:
- reversing the polarity may damage the TALEX‹strip!
- different colour temperatures can be produced by selective control of green, red and blue
- none of the components of the TALEX‹strip (substrate, LED, electronic components etc.) may be exposed to tensile or compressive stresses
- for further information on installation please refer to the brochure entitled “TALEX‹ installation instructions”
- maximum chaining length: 3 strips TALEX‹strip D111 (homogeneous colours over full length)

TALEX‹

type	article number	colour	wavelength nm	light points per module	typ. luminous flux lm ①	voltage V_{DC} ②	current mA	power W ① per colour	power W ① total	ta °C	tc point °C ③	length L mm	packing unit pieces/carton
		red	619–629		4.5		12	0.30					
D109 RGB 24V	89600216	green	520–535	5 RGB	6.0	24	15	0.35	0.9	-25 → +45	75	48.80 ±0.5	20
		blue	460–465		1.2		10	0.25					
		red	619–629		9.0		12	0.30					
D110 RGB 24V	89600112	green	520–535	10 RGB	12.0	24	30	0.70	1.4	-25 → +45	75	97.55 ±0.5	20
		blue	460–465		2.5		18	0.40					
		red	619–629		18.0		25	0.60					
D111 RGB 24V	89600111	green	520–535	20 RGB	24.0	24	60	1.40	2.8	-25 → +45	75	195.10 ±0.5	20
		blue	460–465		5.0		35	0.80					

all data for ta = 25 °C

① Tolerance range for optical and electrical data: ±15 %

② Exceeding the maximum operating voltage leads to an overload on the TALEX‹strip. This may in turn result in a significant reduction in lifetime or even destruction of the TALEX‹strip. Tolerance range for the supply voltage: 24 V: +2 V / -0 V

③ If the maximum temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. The temperature of the TALEX‹strip at the tc point in the thermally stable state by means of a temperature sensor or temperature-sensitive sticker (available for example from www.conrad.com, www.rs-components.com) as per EN60598-1. For the precise position of the tc point see the above diagram.

Cooling area in cm² per single module ③
Values for aluminium ≥ 2 mm thick, tc = 75 °C

type	ta 25 °C	ta 40 °C
D109	27 (18.5 K/W)	54 (9.3 K/W)
D110	43 (11.6 K/W)	86 (5.8 K/W)
D111	86 (9.3 K/W)	172 (2.9 K/W)