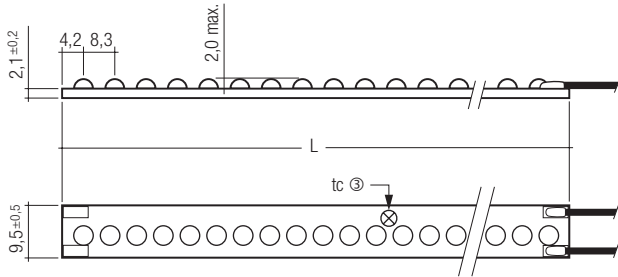


TALEXstrip P105–108

RoHS



Applications:

- safety lighting, general lighting, effect lighting and shelf lighting
- accenting lines and edges and for side injection
- edge lighting of transparent or diffuse materials
- suitable for use with TALEXprofile Z200 / 201 / 202 / 203

Highlights:

- maximum possible beam angle for uniform illumination (thanks to COB technology)
- low profile

Properties:

- high-power LED in COB technology
- dimmable by pulse width modulation (PWM)
- colour temperature white: ④
warm white (WW): 3,000 K
neutral white (NW): 4,200 K
daylight white (DL): 6,500 K
- integrated current source to stabilise luminous flux
- broad 140° light distribution for uniform illumination
- pre-mounted thermal conductive adhesive tape
- connection method: cable 200 mm
- identification of polarity: + red / – black

Notes:

- cooling required ③
- applying reversed polarity of the supply voltage may damage the TALEXstrip
- none of the components of the TALEXstrip (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"

TALEX

type	article number	colour	colour temperature K	light points per module	typ. luminous flux lm ①	voltage V _{DC} ②	power W ①	ta °C	tc max. °C ③	length L mm	packing unit pieces/carton
P105 WW warm	89600168	warm white	3,000	6	13.0	24	0.96	-25 → +50	80	50±1	20
P105 NW neutral	89600166	neutral white	4,200	6	16.5	24	0.96	-25 → +50	80	50±1	20
P105 DL daylight	89600167	daylight white	6,500	6	18.0	24	0.96	-25 → +50	80	50±1	20
P106 WW warm	89600171	warm white	3,000	12	25.0	24	1.92	-25 → +50	80	100±1	20
P106 NW neutral	89600169	neutral white	4,200	12	32.5	24	1.92	-25 → +50	80	100±1	20
P106 DL daylight	89600170	daylight white	6,500	12	36.0	24	1.92	-25 → +50	80	100±1	20
P107 WW warm	89600174	warm white	3,000	18	38.0	24	2.88	-25 → +50	80	150±1	10
P107 NW neutral	89600172	neutral white	4,200	18	49.0	24	2.88	-25 → +50	80	150±1	10
P107 DL daylight	89600173	daylight white	6,500	18	54.0	24	2.88	-25 → +50	80	150±1	10
P108 WW warm	89600177	warm white	3,000	24	50.5	24	3.84	-25 → +50	80	200±1	10
P108 NW neutral	89600175	neutral white	4,200	24	65.0	24	3.84	-25 → +50	80	200±1	10
P108 DL daylight	89600176	daylight white	6,500	24	72.0	24	3.84	-25 → +50	80	200±1	10

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 TALEXstrip. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXstrip. Tolerance range for the supply voltage: 24V: +2V / -0V
- 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 TALEXstrip 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.
- ④ For colour temperatures and tolerances – see page 2

Recommended cooling area in cm² ③

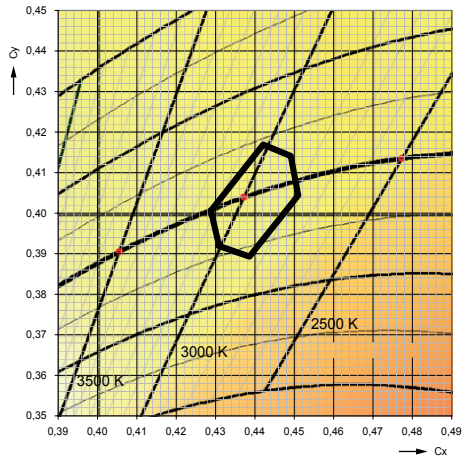
Values for aluminium > 1 mm thick, tc = 80 °C

type	ta 35 °C	ta 50 °C
P105	19.2	48.0
P106	38.4	96.0
P107	57.6	144.0
P108	76.8	192.0

It has to be observed that tc max. value is not exceeded within the specific application.

TALEX(strip P105-108

Corresponding colour temperature and CIE coordinates 3,000 K

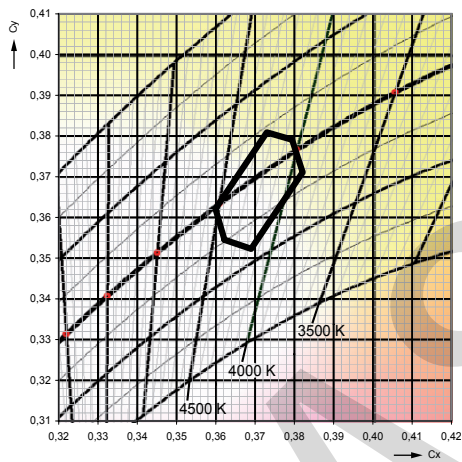


CIE coordinates: tolerance area

warm white, 3,000 K

	Cx	Cy
tolerance area	0.4309	0.3919
	0.4288	0.4006
	0.4421	0.4169
	0.4491	0.4141
	0.4510	0.4044
	0.4386	0.3893

Corresponding colour temperature and CIE coordinates 4,200 K

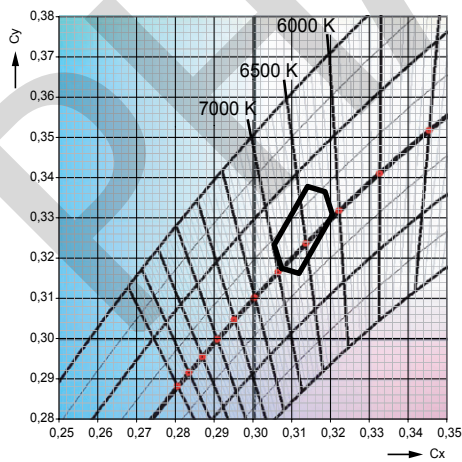


CIE coordinates: tolerance area

neutral white, 4,200 K

	Cx	Cy
tolerance area	0.3622	0.3545
	0.3599	0.3621
	0.3730	0.3809
	0.3794	0.3791
	0.3821	0.3711
	0.3690	0.3523

Corresponding colour temperature and CIE coordinates 6,500 K



CIE coordinates: tolerance area

daylight white, 6,500 K

	Cx	Cy
tolerance area	0.3074	0.3175
	0.3055	0.3233
	0.3141	0.3378
	0.3186	0.3365
	0.3205	0.3308
	0.3119	0.3162