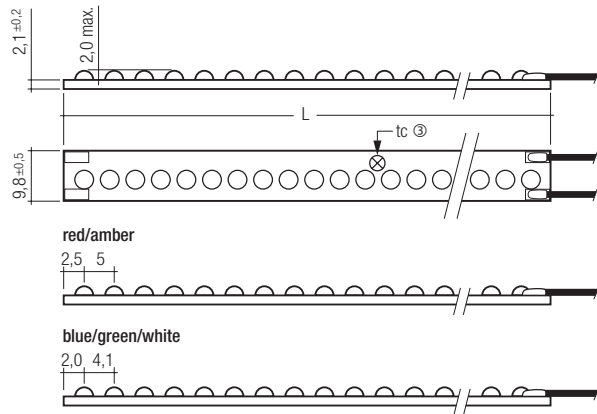


TALEXstrip P115–118

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
- minimal heat generation
- extremely high luminous efficacy achieved by a compact arrangement of the LED

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
- fixing: double sided thermal conductive adhesive tape, pre-mounted
- connection method:
TALEXstrip P115: cable 80 mm, with end ferrules
TALEXstrip P116–118: cable 200 mm, tinned
- 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	wavelength colour temp. ④	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
P115 R	89600142	red	624–630 nm	12	22.0	24	1.44	-25 → +50	80	49±1	20
P115 A	89600143	amber	586–592 nm	12	17.0	24	1.44	-25 → +50	80	49±1	20
P115 G	89600145	green	520–540 nm	12	22.0	24	1.56	-25 → +50	80	49±1	20
P115 B	89600144	blue	460–465 nm	12	6.0	24	1.56	-25 → +50	80	49±1	20
P115 WW warm	89600250	warm white	3,000 K	12	25.0	24	1.56	-25 → +50	80	49±1	20
P115 NW neutral	89600146	neutral white	4,200 K	12	32.5	24	1.56	-25 → +50	80	49±1	20
P115 DL daylight	89600147	daylight white	6,500 K	12	36.0	24	1.56	-25 → +50	80	49±1	20
P116 R	89600148	red	624–630 nm	24	43.0	24	2.88	-25 → +50	80	99±1	20
P116 A	89600149	amber	586–592 nm	24	33.0	24	2.88	-25 → +50	80	99±1	20
P116 G	89600151	green	520–540 nm	24	44.0	24	3.12	-25 → +50	80	99±1	20
P116 B	89600150	blue	460–465 nm	24	12.0	24	3.12	-25 → +50	80	99±1	20
P116 WW warm	89600209	warm white	3,000 K	24	50.5	24	3.12	-25 → +50	80	99±1	20
P116 NW neutral	89600152	neutral white	4,200 K	24	65.0	24	3.12	-25 → +50	80	99±1	20
P116 DL daylight	89600153	daylight white	6,500 K	24	72.0	24	3.12	-25 → +50	80	99±1	20

TALEX

type	article number	colour	wavelength colour temp. ④	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
P117 R	89600154	red	624–630 nm	36	65.0	24	4.32	-25 → +50	80	148±1	10
P117 A	89600155	amber	586–592 nm	36	49.0	24	4.32	-25 → +50	80	148±1	10
P117 G	89600157	green	520–540 nm	36	66.0	24	4.68	-25 → +50	80	148±1	10
P117 B	89600156	blue	460–465 nm	36	18.0	24	4.68	-25 → +50	80	148±1	10
P117 WW warm	89600210	warm white	3,000 K	36	76.5	24	4.68	-25 → +50	80	148±1	10
P117 NW neutral	89600158	neutral white	4,200 K	36	97.0	24	4.68	-25 → +50	80	148±1	10
P117 DL daylight	89600159	daylight white	6,500 K	36	108.0	24	4.68	-25 → +50	80	148±1	10
P118 R	89600160	red	624–630 nm	48	87.0	24	5.76	-25 → +50	80	197.5±1	10
P118 A	89600161	amber	586–592 nm	48	66.0	24	5.76	-25 → +50	80	197.5±1	10
P118 G	89600163	green	520–540 nm	48	88.0	24	6.24	-25 → +50	80	197.5±1	10
P118 B	89600162	blue	460–465 nm	48	24.0	24	6.24	-25 → +50	80	197.5±1	10
P118 WW warm	89600211	warm white	3,000 K	48	101.0	24	6.24	-25 → +50	80	197.5±1	10
P118 NW neutral	89600164	neutral white	4,200 K	48	130.0	24	6.24	-25 → +50	80	197.5±1	10
P118 DL daylight	89600165	daylight white	6,500 K	48	144.0	24	6.24	-25 → +50	80	197.5±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 3

Recommended cooling area in cm² ③

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

type	ta 35 °C	ta 50 °C
P115	31.2	78.0
P116	62.4	156.0
P117	93.6	234.0
P118	124.8	312.0

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

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

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

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