



ACTIVEPAQ LINEAR BASIC 2 FT.
DATASHEET

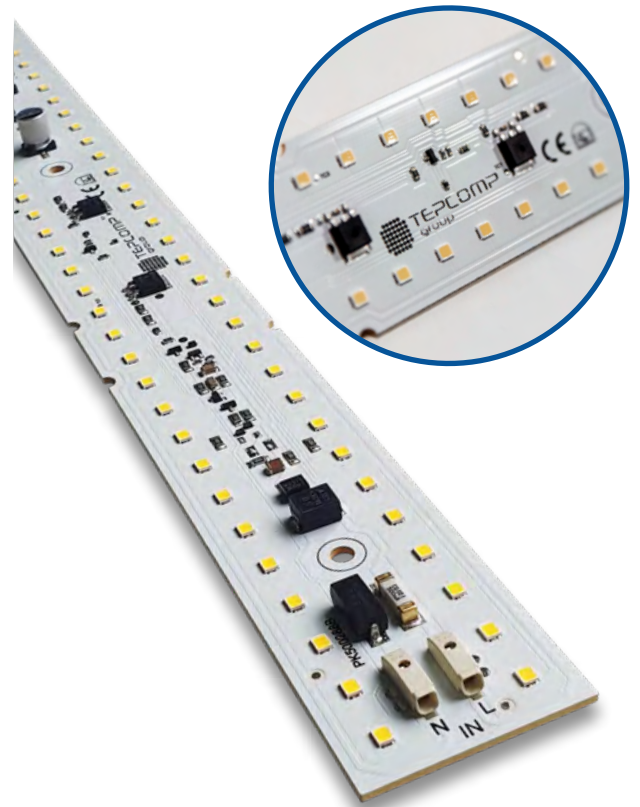
ActivePAQ Linear Basic 2 ft. 2.500lm
 ActivePAQ Linear Basic 2 ft. 2.000lm
 ActivePAQ Linear Basic 2 ft. 1.500lm

PRODUCT DESCRIPTION

DA-Group's ActivePAQ Linear Basic modules combine advanced integrated driver technology with best in class LEDs and sophisticated in-house manufacturing capabilities. The result is an affordable 2 ft. LED module that can directly be operated on mains voltage (230 Vac). Driver components are positioned in-between 2 rows of LED's over the total length of the module and on the same side of the board as LEDs, thus providing a single sided LED module for simplest possible integration into luminaire mechanics.

These ActivePAQ Linear Basic modules are designed to be attached with Avdel Rivscrew®. Rivscrew® rivets ensure that the ActivePAQ attachment method is optimized for true high-volume assembly processes.

With an in- and output connector the ActivePAQ Linear Basic module supports loop through functionality. This combination makes it perfectly suitable for use of multiple modules in a compact linear luminaire or light-line systems. With its high-quality light and compact form factor the ActivePAQ Linear Basic module is the ideal light source for linear Office-, Shop- and Industrial applications.



CERTIFICATES AND STANDARDS



- CE / ENEC (pending)
- EN 55015:2013 / EN 61547:2009 / EN 61000-3-2:2014 / EN 61000-3-3:2013 / EN 62031:2008 + A1:2013 + A2:2015 / EN 61347-1:2008 / EN 62471:2008

3 YEARS LIMITED WARRANTY

DA-Group takes pride in the quality of its products. We not only develop all products in house, they are also produced and tested in our own manufacturing plants to ensure guaranteed reliability and performance. DA-Group's ActivePAQ Linear modules come with the assurance of 3 year warranty. After all, with typical LED lifetimes of > 72.000 hours, it is critical to have an integrated power supply with equal reliability.

KEY FEATURES

- Compact form factor
- No need for separate bulky drivers
- Perfect light distribution
- Supports light-line systems
- Single sided board for simple construction
- In- and output connectors for 230 V loop-through
- Beam angle 120 deg
- Small color tolerance (SDCM <3,5)
- Low light flicker < 25 % (≥ 100 Hz)
- CRI > 80 and CRI > 90 (subject to LED availability)
- Various CCT's available 2700K, 3000K, 3500K, 4000K, 5000K, 5700K, 6500K (subject to LED availability)
- > 72.000hrs lifetime
- Simple and fast installation of modules with Avdel Rivscrews® for true high volume production

For more details or advice regarding implementation and use of those modules we refer to the "ActivePAQ Linear Basic and Performer II modules Design-in Guide" which can be downloaded from www.da-group.fi.

TECHNICAL DATA

Parameter	Unit	Linear Basic 2 ft. / 2.500lm	Linear Basic 2 ft. / 2.000lm	Linear Basic 2 ft. / 1.500lm
Module length	ft. / mm	2 / 560	2 / 560	2 / 560
Width	mm	40	40	40
Integrated driver		Yes	Yes	Yes
CRI		> 80	> 80	> 80
CCT ⁰⁾	K	4000	4000	4000
Lumen output	lm	2.500 ± 5%	2.000 ± 5%	1.500 ± 5%
System efficiency	lm / W	> 130	> 130	> 130
Maximum input voltage range	Vac	230 ± 10%	230 ± 10%	230 ± 10%
Nominal voltage range ¹⁾	Vac	220...240	220...240	220...240
Nominal current	A ac	< 0.085	< 0.07	< 0.05
Nominal wattage	W	19	15	11
Starting time	s	< 0.5	< 0.5	< 0.5
Flicker level ²⁾	%	< 25	< 25	< 25
Flicker frequency	Hz	≥ 100	≥ 100	≥ 100
Power Factor		> 0.99	> 0.99	> 0.99
THD ³⁾	%	< 7	< 9	< 10
Standard deviation of color matching	MacAdam SDCM	< 3.5	< 3.5	< 3.5
Beam angle	deg	120	120	120
No. of LEDs / module	pcs	100	100	100
No. of Rows		2	2	2
Connector type		BJB 46.131.1001.50	BJB 46.131.1001.50	BJB 46.131.1001.50
Weight	gr	< 100	< 100	< 100
Module height incl. components	mm	< 13	< 13	< 13
Storage temp range ⁴⁾	degC	-40...+85	-40...+85	-40...+85
Tc max	degC	110	110	110
Tc life ⁵⁾	degC	100	100	100
Dimmable		No	No	No
Surge protection	kV	2	2	2
Fast transient protection	kV	4	4	4
No. of switching cycles ⁶⁾	qty	> 65.000	> 65.000	> 65.000

⁰⁾ Various CCT's available: 2700K, 3000K, 3500K, 4000K, 5000K, 5700K and 6500K (subject to LED availability). Above table's performance values are for 4000K CRI80.

¹⁾ Rated Voltage Un = 230 Vac.

²⁾ Product variant with < 15 % flicker level also available on request (with module height of < 16 mm), as well as product variant with < 10 % flicker level also available on request (with module height of < 19 mm).

³⁾ Measured according to EN61000-3-2.

⁴⁾ Non-condensing. These conditions are for short term storage and transportation. For long-term storage, the temperature should be kept at +25 +/-10C and humidity at < 75%. In these long-term storage conditions, the maximum shelf life is 24 months and short term means 10 % of this shelf life. Operating temperature low limit is also -40C.

⁵⁾ See 'Design-in guide' for lifetime defining components to be measured during design-in of the ActivePAQ module.

⁶⁾ Tested at room temperature and with 230 Vac 50 Hz input with cycle times of 15 seconds ON and 3 seconds OFF.

ActivePAQ Linear Basic 2 ft. lifetime 2.500lm, 2.000lm and 1.500lm

TC3 °C	L90B10	L90B20	L90B50	L80B10	L80B20	L80B50	L70B10	L70B20	L70B50
55	>62	>66	>72	>72	>72	>72	>72	>72	>72
60	>59	>62	>72	>72	>72	>72	>72	>72	>72
65	>55	>59	>67	>72	>72	>72	>72	>72	>72
70	>52	>55	>62	>72	>72	>72	>72	>72	>72
75	>49	>52	>58	>72	>72	>72	>72	>72	>72
80	>46	>49	>54	>72	>72	>72	>72	>72	>72
85	>43	>46	>50	>50	>50	>50	>50	>50	>50

Minimum lifetime estimation in thousand hours versus TC3-point (LED) temperature. TC2- and TC4-point (ELCAP's) temperatures estimated to be at least 5 °C less than TC3. TC1-point (FET) maximum temperature 100 °C.

LED lifetime data based on 12 000 hour LM-80 data from LED manufacturer.

Module lifetime estimation limited to 6 times LM-80 test time, 72 000 hour.

Module lifetime estimation limited by ELCAP's estimated lifetime.

ORDERING DATA

Product description	CCT	Ordering code	Box quantity = MoQ (pcs)	Pallet qty max. (pcs) ~ 475 kg	Brutto weight (150 pcs)	Netto weight (150 pcs)
ActivePAQ Linear Basic 2 ft. 2.500lm	4000K	VP400100	150	3600	18.5 kg	15 kg
	3000K	TBD	150	3600	18.5 kg	15 kg
ActivePAQ Linear Basic 2 ft. 2.000lm	4000K	TBD	150	3600	18.5 kg	15 kg
	3000K	TBD	150	3600	18.5 kg	15 kg
ActivePAQ Linear Basic 2 ft. 1.500lm	4000K	TBD	150	3600	18.5 kg	15 kg
	3000K	TBD	150	3600	18.5 kg	15 kg

