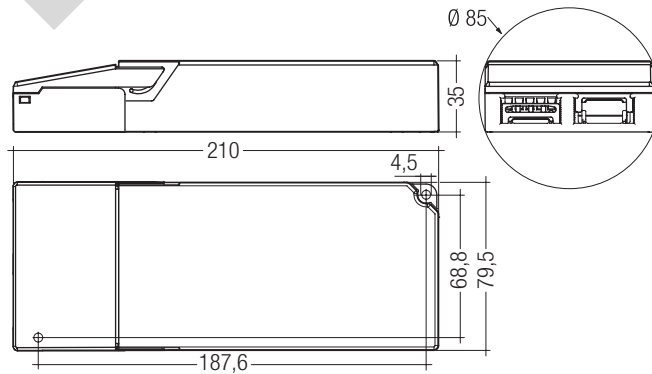
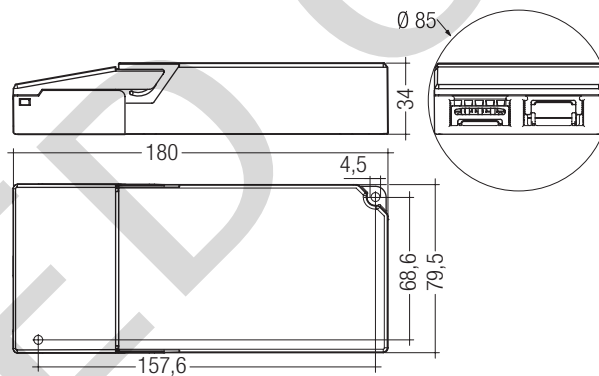




PCI B021 Twin
PCI PRO independent

Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Pulse packets for increased ignition energy (pulseCONTROL technology)
- With patented circuit elements
- Flicker-free light
- Colour stability thanks to constant power
- Guaranteed long life
- No acoustic resonance
- Two independent lamp output circuits
- Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
- Greatly reduced reignition time
- Hardly any EMC interference in the ignition phase
- Automatic shutdown on overheating
- Through wiring possible
- No tools required for installing the terminal cover and cable clamps
- Screw terminals: $\leq 1.5 \text{ mm}^2$ for stranded wire, $\leq 2.5 \text{ mm}^2$ for solid wire
- Casing, one-part, polyamide, black



Technical data

Mains voltage range	220 – 240 V
AC voltage range	198 – 254 V
DC voltage range	153 – 320 V
Mains frequency	0 / 50 / 60 Hz
Max. ignition voltage	5 kVp
Operating frequency	145 Hz
Type of protection	IP20



Standards, page 2

Wiring diagrams and installation examples, page 2

Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
For luminaires with 2 lamps				
PCI 2/35 B021	86458208	15 pc(s).	810 pc(s).	0.374 kg
PCI 2/70 B021	86458210	15 pc(s).	810 pc(s).	0.458 kg

Specific technical data

Lamp wattage	Lamp type	Type	Article number	Dimensions L x W x H	Lamp power	Circuit power ^①	EEl	Efficiency	Current at 50 Hz 230 V	λ at 50 Hz 230 V	Max. cable length to lamp	tc point max.	Ambient temperature ta	tc/ta for $\geq 50,000 \text{ h}$
For luminaires with 2 lamps														
2 x 35 W	HI	PCI 2/35 B021	86458208	180 x 79.5 x 34 mm	2 x 39 W	87 W	A2	> 89 %	0.38 A	0.97	per 3 m / 240 pF	65 °C	-25 ... +50 °C	65/50 °C
2 x 70 W	HI	PCI 2/70 B021	86458210	210 x 79.5 x 35 mm	2 x 72 W	158 W	A2	> 91 %	0.70 A	0.97	per 3 m / 240 pF	75 °C	-25 ... +45 °C	75/45 °C

① At ta = 25 °C.

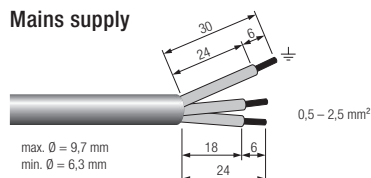
Installation instructions

Wiring type and cross section

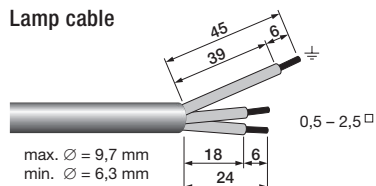
Stranded wire with end ferrule with a cross section up to 1.5 mm² or solid wire up to 2.5 mm² may be used for wiring.

For mains-side through-wiring on a single terminal we recommend the use of the same wire cross section.

Mains supply



Lamp cable

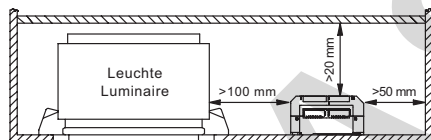


Terminals

Screw type M3
Torque 0.5 Nm

Fixing conditions

Dry, acidfree, oilfree, fatfree. The maximum ambient temperature should not be exceeded. Is not suitable for fixing in corner.



If several ballasts are installed in masts, boxes, etc., measures must be taken to avoid overheating of individual components.

Radio interference

- Do not cross mains and lamp cables.
- Do not lay mains cables together with lamp cables (ideally they should be 5–10 cm apart).
- Do not lead mains cables too closely along the electronic ballast.
- Twist lamp cables.
- Increase the distance between lamp cables and earthed metal surfaces.
- Keep the mains cable in the luminaire short.
- Parallel runs (x) of mains and lamp cables must be kept as short as possible.

Important advise

When a lamp is changed (at the end of its life), if a lamp is missing or after overtemperature shutdown the mains voltage of the ECG must be disconnected.

Warning – starting voltage up to max. 5 kV!
Not suitable for use with lamps with integral ignitors.

Note on wiring

The length of the lamp wires is limited by the value of cable capacitance. The maximum of 240 pF would enable connection of approximately 3 metres of lamp wire for each lamp.

In class 1 luminaires it is necessary to earth the ballast and the luminaire, in class 2 luminaires not.

Standards

- EN 55015 (radio interference)
- EN 61000-3-2 (mains harmonics)
- EN 61347-2-12
- EN 61547 (interference immunity)
- CE mark
- EMV-VDE mark
- ENEC mark

Ballast lumen factor EN 60929 8.1

Type	AC/DC BLF at U = 198-254 V, 25 °C
PCI 2/35	1,0
PCI 2/70	1,0

Harmonic distortion in the mains supply

Ballast Type	THD	3	5	7	9	11
PCI 2/35	7,5	6,0	3,5	3,5	3,5	1,5
PCI 2/70	7,5	4,5	5,0	2,5	2,5	1,0

Loading of automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
Installation Ø	1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²	1,5 mm ²	1,5 mm ²	1,5 mm ²	2,5 mm ²
PCI 2/35	14	25	36	42	8	14	18	18
PCI 2/70	7	14	20	20	4	6	7	7

Safety switch off

End of life of the lamps

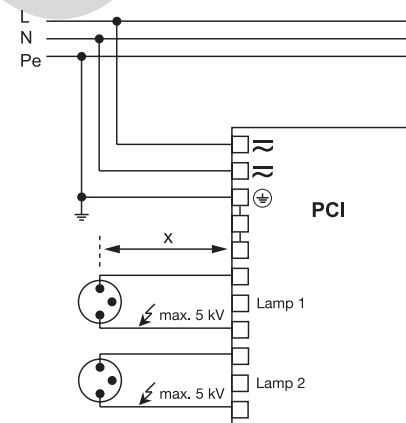
At the end of their useful life, lamps often cycle on/off. The PCI ballast recognises this condition and switches off the lamp, after three complete on/off cycles and whilst the supply has been unswitched. Complete lamp switch off enables easy identification of a defective lamp in the application. After a change of the faulty lamp and an interruption of the mains supply (mains reset) the ballast will strike the lamp. When there is no lamp in circuit or a defective lamp is connected to the ballast, the ballast will switch off after apr. 25 minutes (3.5 minutes of ignition time).

Overtemperature shutdown

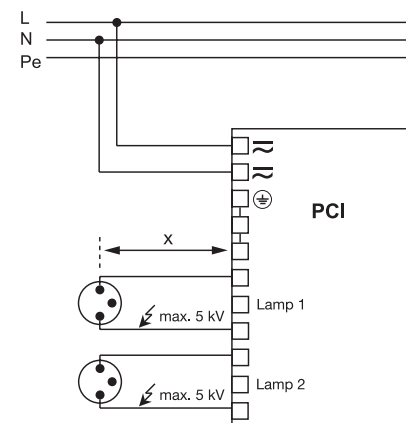
The units shut down at Δt approx. +10 °C compared with t_c/t_a. A mains reset must be carried out so that the units switch on again.

Overload strength

320 V_{ac} / 1 h



Circuit diagram PCI class 1 application



Circuit diagram PCI class 2 application