POWERTRONIC® PTi 50/220-240 I
With cable clamp and mains looping
For metal halide lamps 50 W

Technical Information
Edition: Sep. 2012
Subject to change

Technical data

Reference:	**PTi 50/220-240 I**
Lamp:	HCI 50 W and other similar commercially available lamps
System wattage:	54.5 W ± 1.5 W
Lamp wattage:	50 W ± 1.5 W
Ballast efficiency:	~ 92%
Line voltage:	220 – 240 V_{AC}
Voltage range:	198 – 264 V_{AC}
Line frequency:	50/60 Hz
Line current:	0.24 A_{eff} @ 230 V_{AC}
Power factor λ:	> 0.95
Inrush current:	Max. 45 A / 250 µs @ 50%
Max. no. of ECG @ circuit breakers 10 A (B type):	7
Max. no. of ECG @ circuit breakers 16 A (B type):	13
Max. no. of ECG @ circuit breakers 16 A (B type) in combination with EBN-OS:	32
Max. current for mains looping:	16 A
Protective conductor current:	0.30 mA_{rms}
Operating frequency (50 / 60 Hz Line frequency):	200/240 Hz
U-OUT:	250 V
Maximum working voltage between LH and LL:	250 V
Maximum working voltage between LL/LH and earth:	250 V
Ambient temperature t_a:	-25°C to +55 °C
Max. temperature at point t_c:	+80 °C
ECG life time:	50000 h (@ t_c max.) [1]
Overheating protection:	Power reduction and shutdown at T at the t_c point > 80 °C
Overvoltage protection:	275 V < U_{mains} < 300 V -> 48 h [2] 300 V < U_{mains} < 320 V -> 2 h [2] 320 V < U_{mains} < 350 V -> 5 min [3]
Min. ECG-reset time (by mains interrupt):	0.5 sec
Wire cross section input / output line:	0.75 – 2.5 mm²
Wire stripping:	10 – 11 mm
Max. wiring length ECG/lamp:	1.50 m
Max. capacitance of wire ECG/lamp:	120 pF
Cable mains (cable clamp B and C):	NYM-J 3x1.5; NYM-J 3x2.5; H05VV-F 3x1.5 NHXMH-J 3x1.5
Cable output (cable clamp B):	SIHF-J 3x1.5; SIHF-J 3x2.5; SIHSI 3x1
Cables with extra small diameter (cable clamp A):	Cables with outer diameters < 7 mm can be clamped in compartment A, but compliance with international and local standards must be verified.
Ignition voltage:	4.5 kV
Limited ignition time:	20 min
Dimensions (l x w x h):	155 mm x 83 mm x 32 mm
Distance mounting wholes (l1):	163 mm
Weight:	≈ 290 g
Safety:	EN 61347-2-12 / IEC 61347-2-12
Radio interference suppression:	EN 55015 / CISPR 15
Harmonics of line current:	EN 61000-3-2 / IEC 61000-3-2
Immunity:	EN 61547 / IEC 61547
Electromagnetic fields:	EN 62493 / IEC 62493
VDE-ENEC-sign:	40035813
VDE-EMC-sign:	40025469

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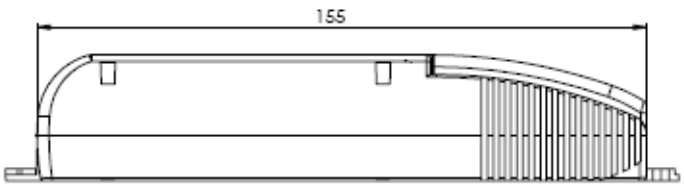
Approval marks:

1) with max. 10% failure rate at max. tc

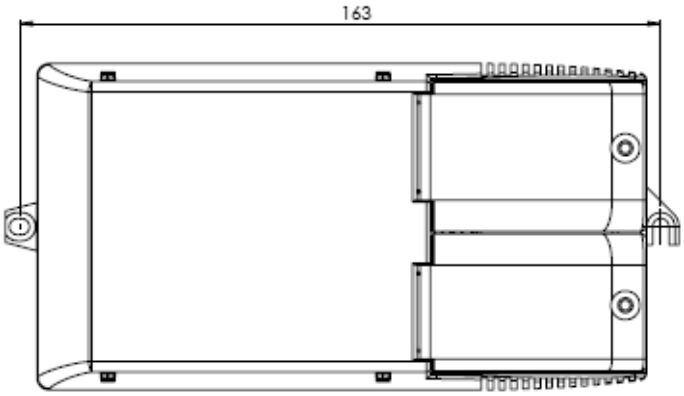
2) ECG switches off after 40 sec

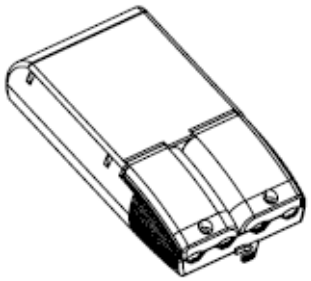
3) ECG switches off or does not start

Geometry

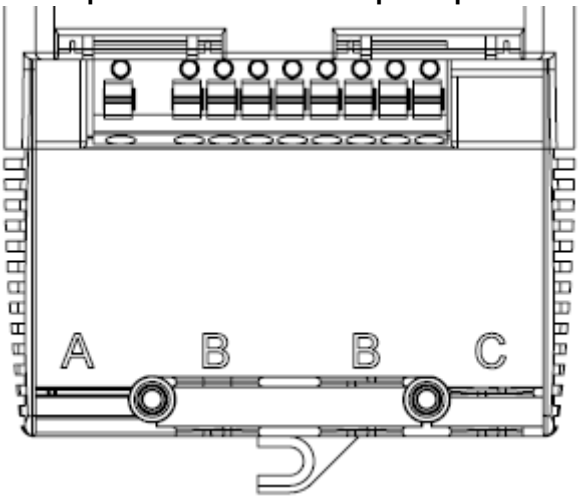








Description of the cable clamp compartment



Product number:

Reference	EAN 10	EAN 40
PTi 50/220-240 I	4008321 **955869**	4008321 **955951**

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Thermal characteristics

Ballast losses and lamp heat radiation can lead to heat accumulation in a complete closed case. Therefore it is necessary to ensure, that the temperature at the measuring point t_c does not exceed the maximum value.

Attention!

For safety reasons disconnect the device before replacing the lamp.

Wiring diagram

Installation by qualified electricians only.

The LUM PE earthing terminal (marked with this symbol: 

) is only allowed for earthing of the lamp compartment, which is powered by this control gear.

Max. lamp cable length is 1.5m; cable should be twisted for favourable EMC behaviour .

