

## POWERTRONIC INTELLIGENT I

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ECG for HID lamps, with cable clamp



- Shop lighting
- Health and fitness areas
- Effect and accent lighting

### Product benefits

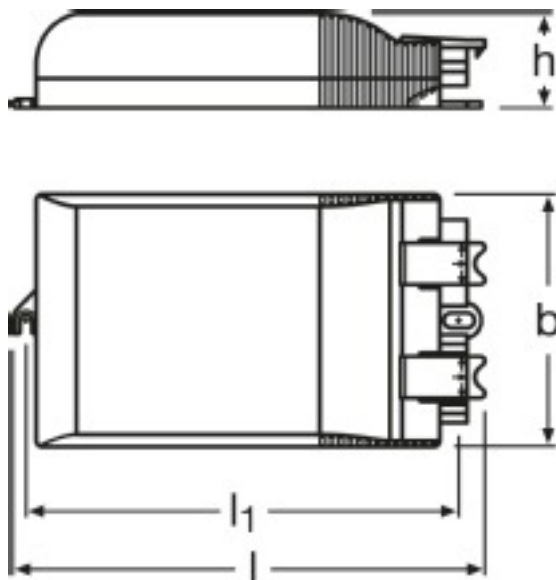
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- Extended terminal section enables mains looping
- Screw-down cable clamps for reliable strain relief
- Long reliable life at maximum permitted temperatures
- Integrated socket/plug offers many benefits
- Rapid error-free installation of the power and luminaire connections
- Incorrect wiring virtually impossible thanks to coded plug/socket
- Based on the established ST 18/GST 18 plug system

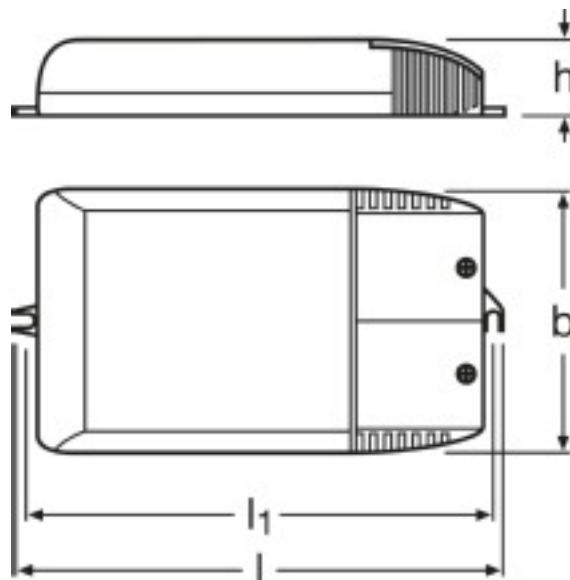
### Product features

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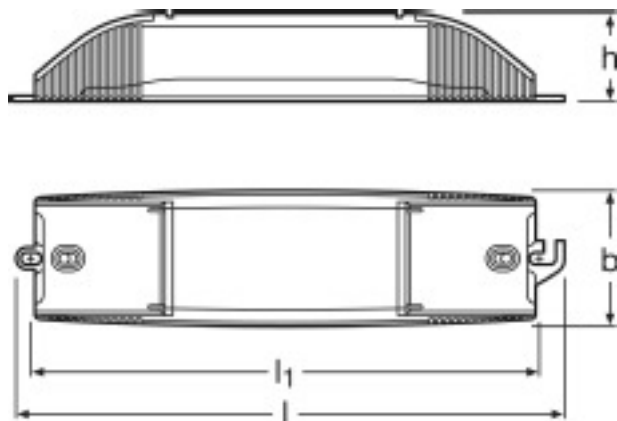
- Energy Efficiency Index EEI: A2
- Supply voltage: 220...240 V
- Line frequency: 50...60 Hz
- RI suppression: to EN 55015/CISPR 15
- Safety: to EN 61347-2-12
- Line harmonics: to EN 61000-3-2
- Immunity: to EN 61547



Product line drawing with letters  
PTi 35/220...240 SNAP | PTi 70/220...240 SNAP



Product line drawing with letters  
PTi 100/220...240 I | PTi 35/220...240 I/P | PTi 35/220...240 I/P | PTi 70/220-240 I/P-01 | PTi 150/220...240 I | PTi 35/220...240 I | PTi 70/220...240 I | PTi 150/220...240 I/P | PTi 2X35/220...240 | PTi 2X70/220...240



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*Product line drawing with letters*  
*PTi 20/220...240 I*

## Technical data

Product description	System wattage	Lamp wattage	Voltage Range	Line current	Rated power factor $\lambda$	Inrush current
PTi 35/220...240 SNAP	42.5 W	39 W	198...264 V	0.19 A <sup>1)</sup>	0.95 <sup>2)</sup>	30 A <sup>3)</sup>
PTi 70/220...240 SNAP	79 W	73 W	198...264 V	0.36 A <sup>1)</sup>	0.95 <sup>2)</sup>	45 A <sup>7)</sup>
PTi 100/220...240 I	106 W	97 W	198...254 V	0.49 A <sup>1)</sup>	0.95 <sup>2)</sup>	60 A <sup>7)</sup>
PTi 35/220...240 I/P	43.5 W	39 W	198...254 V	0.20 A <sup>1)</sup>	0.95 <sup>2)</sup>	30 A <sup>3)</sup>
PTi 35/220...240 I/P	43.5 W	39 W	198...254 V	0.20 A <sup>1)</sup>	0.95 <sup>2)</sup>	30 A <sup>3)</sup>
PTi 70/220-240 I/P-01	80 W	73 W	198...254 V	0.36 A <sup>1)</sup>	0.95 <sup>2)</sup>	45 A <sup>7)</sup>
PTi 70/220-240 I/P-02	80 W	73 W	198...254 V	0.36 A <sup>1)</sup>	0.95 <sup>2)</sup>	45 A <sup>7)</sup>
PTi 20/220...240 I	23 W	20 W	198...264 V	0.11 A <sup>1)</sup>	0.95 <sup>2)</sup>	12 A <sup>8)</sup>
PTi 150/220...240 I	160 W	147 W	198...254 V	0.72 A <sup>1)</sup>	0.95 <sup>2)</sup>	70 A <sup>7)</sup>
PTi 35/220...240 I	42 W	39 W	198...254 V	0.20 A <sup>1)</sup>	0.95 <sup>2)</sup>	30 A <sup>3)</sup>
PTi 50/220-240 I	54.5 W	50 W		0.24 A <sup>1)</sup>	0.95 <sup>2)</sup>	45 A <sup>7)</sup>
PTi 70/220...240 I	79 W	73 W	198...254 V	0.36 A <sup>1)</sup>	0.95 <sup>2)</sup>	45 A <sup>7)</sup>
PTi 150/220...240 I/P	160 W	147 W	198...254 V	0.72 A <sup>1)</sup>	0.95 <sup>2)</sup>	70 A <sup>7)</sup>
PTi 2X35/220...240	86 W	2*39 W	198...254 V	0.19 A	0.95 <sup>2)</sup>	30 A
PTi 2X70/220...240	159 W	2*73 W	198...254 V	0.70 A <sup>1)</sup>	0.95 <sup>2)</sup>	70 A <sup>7)</sup>

Product description	Max. no. of ECGs on circuit breaker 10 A	Max. no. of ECGs on circuit breaker 16 A	Max. no. of ECGs on 16A MCB with EBN-OS	Operating frequency	U-OUT	Max. working voltage between LH and LL
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PTi 35/220...240 SNAP	15	26	65	0.200...0.240 kHz	250 V	250 V
PTi 70/220...240 SNAP	7	13	32	0.200...0.240 kHz	250 V	250 V
PTi 100/220...240 I	5	8	20	0.165 kHz	250 V	250 V
PTi 35/220...240 I/P	15	26	65	0.165 kHz	250 V	250 V
PTi 35/220...240 I/P	15	26	65	0.165 kHz	250 V	250 V
PTi 70/220-240 I/P-01	7	13	32	0.165 kHz	250 V	250 V
PTi 70/220-240 I/P-02	7	13	32	0.165 kHz	250 V	250 V
PTi 20/220...240 I	22	33	82	0.100...0.120 kHz	250 V	250 V
PTi 150/220...240 I	4	7	17	0.165 kHz	250 V	250 V
PTi 35/220...240 I	15	26	65	0.165 kHz	250 V	250 V
PTi 50/220-240 I	7	13	32	0.200...0.240 kHz	250 V	250 V
PTi 70/220...240 I	7	13	32	0.165 kHz	250 V	250 V
PTi 150/220...240 I/P	4	7	17	0.165 kHz	250 V	250 V
PTi 2X35/220...240	7	13		0.165 kHz	250 V	250 V
PTi 2X70/220...240	4	7	17	0.165 kHz	250 V	250 V

Product description	Max. working voltage betw. LL/LH & earth	Ambient temperature range	Overheating protection	Overvoltage protection at 275...300 V	Overvoltage protection at 300...320 V	Overvoltage protection at 320...350 V
PTi 35/220...240 SNAP	250 V	-25...+65 °C	Power reduction and switch off at T > 80 °C at the tc point	48 h	2 h <sup>4)</sup>	5 min <sup>5)</sup>

PTi 70/220...240 SNAP	250 V	-25...+50 °C	Power reduction and switch off at T > 80 °C at the tc point	48 h	2 h <sup>4)</sup>	5 min <sup>5)</sup>
PTi 100/220...240 I	250 V	-25...+55 °C	Power reduction and switch off at T > 70 °C at the tc point			
PTi 35/220...240 I/P	250 V	-25...+65 °C	Power reduction and switch off at T > 80 °C at the tc point			
PTi 35/220...240 I/P	250 V	-25...+65 °C	Power reduction and switch off at T > 80 °C at the tc point			
PTi 70/220-240 I/P-01	250 V	-25...+50 °C	Power reduction and switch off at T > 80 °C at the tc point			
PTi 70/220-240 I/P-02	250 V	-25...+55 °C	Power reduction and switch off at T > 80 °C at the tc point			
PTi 20/220...240 I	250 V	-25...+60 °C	Switch off at T > 75 °C at the tc point			
PTi 150/220...240 I	250 V	-25...+50 °C	Power reduction and switch off at T > 75 °C at the tc point			
PTi 35/220...240 I	250 V	-25...+65 °C	Power reduction and switch off at T > 80 °C at the tc point			

PTi 50/220-240 I	250 V	-25...+55 °C	Power reduction and switch off at T > 80 °C at the tc point	48 h	2 h <sup>4)</sup>	5 min <sup>5)</sup>
PTi 70/220...240 I	250 V	-25...+50 °C	Power reduction and switch off at T > 80 °C at the tc point			
PTi 150/220...240 I/P	250 V	-25...+50 °C	Power reduction and switch off at T > 75 °C at the tc point			
PTi 2X35/220...240	250 V	-25...+55 °C	Automatic switch off, reversible by mains reset			
PTi 2X70/220...240	250 V	-25...+50 °C	Power reduction and switch off at T > 75 °C at the tc point			

Product description	ECG reset time	Maximum wiring length ECG/lamp	Max. capacitance of wire ECG/lamp	Ignition voltage	Product weight	Approval marks – approval
PTi 35/220...240 SNAP	> 0.5 s	1.5 m	120 pF	4.5 kVp	270.00 g	ENEC 10
PTi 70/220...240 SNAP	> 0.5 s	1.5 m	120 pF	4.5 kVp	270.00 g	ENEC 10
PTi 100/220...240 I	> 0.5 s	1.5 m	120 pF	4.5 kVp	400.00 g	ENEC 10
PTi 35/220...240 I/P	> 0.5 s	1.5 m	120 pF	4.5 kVp	340.00 g	ENEC 10
PTi 35/220...240 I/P	> 0.5 s	1.5 m	120 pF	4.5 kVp	340.00 g	ENEC 10
PTi 70/220-240 I/P-01	> 0.5 s	1.5 m	120 pF	4.5 kVp	340.00 g	ENEC 10
PTi 70/220-240 I/P-02	> 0.5 s	1.5 m	120 pF	4.5 kVp	315.00 g	ENEC 10
PTi 20/220...240 I	> 0.5 s	1.5 m	120 pF	3.0 kVp	160.00 g	ENEC 10

PTi 150/220...240 I	> 0.5 s	1.5 m	120 pF	4.5 kVp	420.00 g	ENEC 10
PTi 35/220...240 I	> 0.5 s	1.5 m	120 pF	4.5 kVp	275.00 g	ENEC 10
PTi 50/220-240 I	> 0.5 s	1.5 m	120 pF	4.5 kVp	275.00 g	ENEC 10
PTi 70/220...240 I	> 0.5 s	1.5 m	120 pF	4.5 kVp	275.00 g	ENEC 10
PTi 150/220...240 I/P	> 0.5 s	1.5 m	120 pF	4.5 kVp	490.00 g	ENEC 10
PTi 2X35/220...240	> 0.5 s	1.5 m	120 pF	4.5 kVp	440.00 g	ENEC 10
PTi 2X70/220...240	> 0.5 s	1.5 m	120 pF	4.5 kVp	450.00 g	ENEC 10

Product description	Cable cross-section, input side	Cable cross-section, output side	Cable types, input side	Cable types, output side	Design / version	Dimmable
PTi 35/220...240 SNAP	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	Connector	No
PTi 70/220...240 SNAP	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	Connector	No
PTi 100/220...240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 35/220...240 I/P	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>		Connector	No
PTi 35/220...240 I/P	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>		Connector	No
PTi 70/220-240 I/P-01	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>		Connector	No
PTi 70/220-240 I/P-02	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>		Connector	No
PTi 20/220...240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 150/220...240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 35/220...240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 50/220-240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 70/220...240 I	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No



PTi 150/220...240 I/P	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>		Connector	No
PTi 2X35/220...240	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No
PTi 2X70/220...240	0.75...2.5 mm <sup>2</sup>	0.75...2.5 mm <sup>2</sup>	NYM-J 3x1.5 mm <sup>2</sup>	SIHF-J 3x1.5 mm <sup>2</sup>	With cable clamp	No

Product description	ECG efficiency	ECG lifetime	EEI – Energy Label	Height	Input voltage	Length
PTi 35/220...240 SNAP	92 %	50000 h <sup>6)</sup>	A2	31.0 mm	220...240 V	155.0 mm
PTi 70/220...240 SNAP	92 %	50000 h <sup>6)</sup>	A2	31.0 mm	220...240 V	155.0 mm
PTi 100/220...240 I	92 %	50000 h <sup>6)</sup>	A2	33.0 mm	220...240 V	195.0 mm
PTi 35/220...240 I/P	91 %	50000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 35/220...240 I/P	91 %	50000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 70/220-240 I/P-01	91 %	40000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 70/220-240 I/P-02	91 %	40000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 20/220...240 I	87 %	50000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	185.0 mm
PTi 150/220...240 I	92 %	40000 h <sup>6)</sup>	A2	33.0 mm	220...240 V	195.0 mm
PTi 35/220...240 I	91 %	40000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 50/220-240 I	92 %	50000 h <sup>6)</sup>		32.0 mm	220...240 V	171.0 mm
PTi 70/220...240 I	91 %	40000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	155.0 mm
PTi 150/220...240 I/P	92 %	40000 h <sup>6)</sup>	A2	33.0 mm	220...240 V	195.0 mm
PTi 2X35/220...240	91 %	50000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	207.0 mm
PTi 2X70/220...240	92 %	40000 h <sup>6)</sup>	A2	32.0 mm	220...240 V	207.0 mm

Product description	Mains frequency	Mains terminals	Mounting hole spacing, length	Maximum temperature at tc test point	Overload protection	Restriction on ignition time
PTi 35/220...240 SNAP	50...60 Hz	GST 18	142.0 mm	80 °C	Yes <sup>4)</sup>	20 min
PTi 70/220...240 SNAP	50...60 Hz	GST 18	142.0 mm	80 °C	Yes <sup>4)</sup>	20 min
PTi 100/220...240 I	50...60 Hz		203.0 mm	70 °C	No	20 min
PTi 35/220...240 I/P	50...60 Hz		163.0 mm	80 °C	No	20 min
PTi 35/220...240 I/P	50...60 Hz		163.0 mm	80 °C	No	20 min
PTi 70/220-240 I/P-01	50...60 Hz		163.0 mm	80 °C	No	20 min
PTi 70/220-240 I/P-02	50...60 Hz				No	20 min
PTi 20/220...240 I	50...60 Hz		186.5 mm	75 °C	No	20 min
PTi 150/220...240 I	50...60 Hz		203.0 mm	75 °C	No	20 min
PTi 35/220...240 I	50...60 Hz		163.0 mm	80 °C	No	20 min
PTi 50/220-240 I	50...60 Hz			80 °C		20 min
PTi 70/220...240 I	50...60 Hz		163.0 mm	80 °C	No	20 min
PTi 150/220...240 I/P	50...60 Hz		203.0 mm	75 °C	No	20 min
PTi 2X35/220...240	50...60 Hz		163.0 mm	70 °C	No	20 min
PTi 2X70/220...240	50...60 Hz		215.0 mm	75 °C	No	20 min

Product description	Secondary terminals	Standards	Suitable for emergency lighting	Suitable for fixtures with prot. class	Width	Wire preparation length, input side
PTi 35/220...240 SNAP	ST 18i3 UNI	acc. to EN 61347-2-12	No	I	83.0 mm	

PTi 70/220...240 SNAP	ST 18i3 UNI	acc. to EN 61347-2-12	No	I	83.0 mm	
PTi 100/220...240 I		acc. to EN 61347-2-12	No	I	93.0 mm	10...11 mm
PTi 35/220...240 I/P		acc. to EN 61347-2-12	No	I	83.0 mm	10...11 mm
PTi 35/220...240 I/P		acc. to EN 61347-2-12	No	I	83.0 mm	10...11 mm
PTi 70/220-240 I/P-01		acc. to EN 61347-2-12	No	I	83.0 mm	10...11 mm
PTi 70/220-240 I/P-02		acc. to EN 61347-2-12		I	83.0 mm	10...11 mm
PTi 20/220...240 I		acc. to EN 61347-2-12	No	I	50.0 mm	10...11 mm
PTi 150/220...240 I		acc. to EN 61347-2-12	No	I	93.0 mm	10...11 mm
PTi 35/220...240 I		acc. to EN 61347-2-12	No	I	83.0 mm	10...11 mm
PTi 50/220-240 I		acc. to EN 61347-2-12/IEC 61347-2-12			83.0 mm	10...11 mm
PTi 70/220...240 I		acc. to EN 61347-2-12	No	I	83.0 mm	10...11 mm
PTi 150/220...240 I/P		acc. to EN 61347-2-12	No	I	93.0 mm	10...11 mm
PTi 2X35/220...240		acc. to EN 61347-2-12	No	I	96.0 mm	10...11 mm
PTi 2X70/220...240		acc. to EN 61347-2-12	No	I	96.0 mm	10...11 mm

Product description	Wire preparation length, output side	Maximum current for mains looping
PTi 35/220...240 SNAP		
PTi 70/220...240 SNAP		
PTi 100/220...240 I	10...11 mm	
PTi 35/220...240 I/P		16 A

PTi 35/220...240 I/P		16 A
PTi 70/220-240 I/P-01		16 A
PTi 70/220-240 I/P-02	10...11 mm	16 A
PTi 20/220...240 I	10...11 mm	16 A
PTi 150/220...240 I	10...11 mm	
PTi 35/220...240 I	10...11 mm	16 A
PTi 50/220-240 I	10...11 mm	
PTi 70/220...240 I	10...11 mm	16 A
PTi 150/220...240 I/P		
PTi 2X35/220...240	10...11 mm	
PTi 2X70/220...240	10...11 mm	

1) At 230 V<sub>AC</sub>

2) Minimum

3)  $t_{\text{width}} = 150 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

4) Control gear switches off after 40 s

5) Control gear switches off or does not start

6) At maximum  $T_c$  / 10 % failure rate

7)  $t_{\text{width}} = 250 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

8)  $t_{\text{width}} = 210 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

## Equipment / Accessories

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- Precabled versions available on request

## Application advice

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For more detailed application information and graphics please see product datasheet.

## Disclaimer

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Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.