



# The most reliable solution in road lighting

## MASTER SON-T PIA Plus

High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

### Benefits

- Initial investment saving options with "Plus" concept
- High lumen output, maintained over life
- Minimal maintenance cost

### Features

- Clear tubular outer bulb
- Ceramic discharge tube with Unique Philips Integrated Antenna (PIA) concept enabling long and reliable lifetime
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- Dimmable

### Application

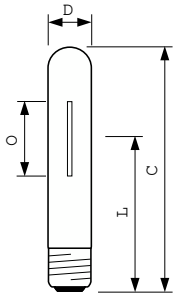
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

# MASTER SON-T PIA Plus

## Warnings and Safety

- Control gear must include end-of-life protection (IEC60662, IEC 62035)
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

## Dimensional drawing



Product	D (max)	O	L	C (max)
MASTER SON-T PIA PLUS 150W E E40 1SL/12	47 mm	61 mm	132 mm	209 mm
MST SON-T PIA PLUS 250W E E40 1SL/12	48 mm	64 mm	158 mm	257 mm
MST SON-T PIA PLUS 400W E E40 1SL/12	48 mm	83 mm	175 mm	279 mm
MST SON-T PIA Plus 100W E E40	47 mm	47 mm	132 mm	209 mm
MST SON-T PIA Plus 100W E40 1SL/12	47 mm	47 mm	132 mm	209 mm
MST SON-T PIA Plus 100W/220 E40 1SL/12	48 mm	47 mm	132 mm	210 mm
MST SON-T PIA Plus 150W E E40	47 mm	61 mm	132 mm	209 mm
MST SON-T PIA Plus 150W E40 1SL/12	47 mm	61 mm	132 mm	209 mm
MST SON-T PIA Plus 150W/220 E40 - 1SL/12	48 mm	61 mm	132 mm	210 mm
MST SON-T PIA Plus 250W E E40	48 mm	64 mm	158 mm	257 mm
MST SON-T PIA Plus 250W E E40 1SL/12	48 mm	64 mm	158 mm	257 mm
MST SON-T PIA Plus 250W E40 1SL/12	48 mm	64 mm	158 mm	257 mm
MST SON-T PIA Plus 400W E E40	48 mm	83 mm	175 mm	279 mm
MST SON-T PIA Plus 400W E E40 1SL/12	48 mm	83 mm	175 mm	279 mm
MST SON-T PIA Plus 400W E40 1SL/12	48 mm	83 mm	175 mm	279 mm
MST SON-T PIA Plus 50W/220 E27 1SL/12	36 mm	35 mm	104 mm	156 mm
MST SON-T PIA Plus 600W/220 E40 1SL/12	47 mm	126 mm	174.2 mm	279 mm
MST SON-T PIA Plus 70W E E27	36 mm	42 mm	104 mm	156 mm
MST SON-T PIA Plus 70W/220 E27 1SL/12	36 mm	42 mm	104 mm	156 mm
MSTSON-TPIA Plus 70W E27 1CT/12	35.75 mm	42 mm	102 mm	156 mm
SON-T PIA PLUS 250W E E40 1SL/12	48 mm	64 mm	158 mm	257 mm

### General Information

Operating Position UNIVERSAL

### Light Technical

Color rendering index (CRI) -

### Mechanical and Housing

Bulb Finish Clear

## General Information

Order Code	Full Product Name	Cap-Base
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	E40
928144709292	MST SON-T PIA Plus 250W E E40	E40
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	E40
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	E40
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	E40
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	E40
928144809292	MST SON-T PIA Plus 400W E E40	E40
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	E40
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	E40
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	E40
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	E40
928483300094	MST SON-T PIA Plus 100W E E40	E40
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	E40
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	E40
928483400094	MST SON-T PIA Plus 150W E E40	E40

# MASTER SON-T PIA Plus

Order Code	Full Product Name	Cap-Base
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	E40
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	E27
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	E27

Order Code	Full Product Name	Cap-Base
928152700091	MST SON-T PIA Plus 70W E E27	E27
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	E27

## Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	Luminous Efficacy (rated)	
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	(Nom)	Luminous Flux
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	0.535	0.420	2000 K	125 lm/W	33,000 lm
928144709292	MST SON-T PIA Plus 250W E E40	0.535	0.420	2000 K	125 lm/W	32,100 lm
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	0.535	0.420	2000 K	125 lm/W	33,000 lm
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	0.535	0.420	2000 K	125 lm/W	32,100 lm
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	0.535	0.420	2000 K	125 lm/W	32,100 lm
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	0.535	0.42	2000 K	137 lm/W	55,900 lm
928144809292	MST SON-T PIA Plus 400W E E40	0.535	0.420	2000 K	137 lm/W	-
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	0.535	0.42	2000 K	137 lm/W	55,900 lm
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	0.535	0.420	2000 K	137 lm/W	-
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	0.535	0.42	2000 K	115.16 lm/W	17,800 lm
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	0.535	0.42	2000 K	105 lm/W	10,600 lm
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	0.530	0.428	2000 K	149 lm/W	-
928483300094	MST SON-T PIA Plus 100W E E40	0.535	0.420	2000 K	105 lm/W	10,600 lm
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	0.535	0.42	2000 K	105 lm/W	10,600 lm
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	0.535	0.420	2000 K	115 lm/W	17,800 lm
928483400094	MST SON-T PIA Plus 150W E E40	0.535	0.420	2000 K	115 lm/W	17,800 lm
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	0.535	0.42	2000 K	115 lm/W	17,800 lm
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	0.54	0.42	1900 K	83 lm/W	4,500 lm
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	0.54	0.42	1900 K	90 lm/W	6,650 lm
928152700091	MST SON-T PIA Plus 70W E E27	0.540	0.420	1900 K	90 lm/W	6,650 lm
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	0.54	0.42	1900 K	91 lm/W	6,650 lm

## Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	109 V	264 W
928144709292	MST SON-T PIA Plus 250W E E40	102 V	257.0 W
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	102 V	264 W
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	102 V	257.0 W
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	102 V	257.0 W
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	105 V	408.0 W
928144809292	MST SON-T PIA Plus 400W E E40	105 V	408.0 W
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	105 V	408.0 W
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	105 V	408.0 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	104 V	155.0 W
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	100 V	101.0 W
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	110 V	603 W
928483300094	MST SON-T PIA Plus 100W E E40	100 V	100.4 W
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	100 V	101.0 W
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	100 V	154.0 W
928483400094	MST SON-T PIA Plus 150W E E40	100 V	154.0 W
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	100 V	155.0 W
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	91 V	54.5 W

## MASTER SON-T PIA Plus

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	92 V	74 W
928152700091	MST SON-T PIA Plus 70W E E27	92 V	74 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	93 V	74.0 W

### Controls and Dimming

Order Code	Full Product Name	Dimmable
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	Yes
928144709292	MST SON-T PIA Plus 250W E E40	Yes
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	Yes
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	Yes
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	Yes
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	Yes
928144809292	MST SON-T PIA Plus 400W E E40	Yes
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	Yes
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	Yes
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	Yes
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	Yes

Order Code	Full Product Name	Dimmable
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	No
928483300094	MST SON-T PIA Plus 100W E E40	No
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	Yes
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	No
928483400094	MST SON-T PIA Plus 150W E E40	No
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	Yes
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	Yes
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	Yes
928152700091	MST SON-T PIA Plus 70W E E27	Yes
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	Yes

### Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	T46
928144709292	MST SON-T PIA Plus 250W E E40	T46
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	T46
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	T46
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	T46
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	T46
928144809292	MST SON-T PIA Plus 400W E E40	T46
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	T46
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	T46
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	T46
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	T46

Order Code	Full Product Name	Bulb Shape
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	T46
928483300094	MST SON-T PIA Plus 100W E E40	T46
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	T46
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	T46
928483400094	MST SON-T PIA Plus 150W E E40	T46
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	T46
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	T35
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	T35
928152700091	MST SON-T PIA Plus 70W E E27	T35
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	T35

### Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928144709230	MST SON-T PIA Plus 250W E E40 1SL/12	257 kWh	15.1 mg	15.1 mg
928144709292	MST SON-T PIA Plus 250W E E40	286 kWh	-	15.1 mg
928144709293	MST SON-T PIA Plus 250W E40 1SL/12	257 kWh	15.1 mg	15.1 mg
928144709295	SON-T PIA PLUS 250W E E40 1SL/12	286 kWh	-	15.1 mg
928144709298	MST SON-T PIA PLUS 250W E E40 1SL/12	286 kWh	-	15.1 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928144809227	MST SON-T PIA Plus 400W E E40 1SL/12	408 kWh	19.6 mg	20 mg
928144809292	MST SON-T PIA Plus 400W E E40	449 kWh	-	20 mg
928144809293	MST SON-T PIA Plus 400W E40 1SL/12	408 kWh	19.6 mg	20 mg
928144809298	MST SON-T PIA PLUS 400W E E40 1SL/12	449 kWh	-	20 mg
928150909230	MST SON-T PIA Plus 150W/220 E40 - 1SL/12	155 kWh	15.1 mg	15 mg

## MASTER SON-T PIA Plus

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928151709230	MST SON-T PIA Plus 100W/220 E40 1SL/12	101 kWh	16.3 mg	16.3 mg
928158409227	MST SON-T PIA Plus 600W/220 E40 1SL/12	663 kWh	-	18.9 mg
928483300094	MST SON-T PIA Plus 100W E E40	110 kWh	-	14.3 mg
928483300095	MST SON-T PIA Plus 100W E40 1SL/12	101 kWh	16.3 mg	14.3 mg
928483400093	MASTER SON-T PIA PLUS 150W E E40 1SL/12	169 kWh	-	13.9 mg
928483400094	MST SON-T PIA Plus 150W E E40	169 kWh	-	13.9 mg
928483400095	MST SON-T PIA Plus 150W E40 1SL/12	155 kWh	15.1 mg	13.9 mg
928151900028	MST SON-T PIA Plus 50W/220 E27 1SL/12	55 kWh	9.8 mg	9.8 mg

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
928152700028	MST SON-T PIA Plus 70W/220 E27 1SL/12	73 kWh	12.2 mg	12.2 mg
928152700091	MST SON-T PIA Plus 70W E E27	80 kWh	-	12.2 mg
928483200094	MSTSON-TPIA Plus 70W E27 1CT/12	73 kWh	12.2 mg	12.2 mg

