



Product Description

MASTER SON PIA Plus

High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- · High luminous efficacy makes this the most energy efficient HPS lamp

Features

- \cdot Ovoid, internally white coated outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- · ZrCo getter ensures high lumen maintenance and few early failures
- "Plus" concept with high efficacy translated into high light output
- · Completely lead-free lamps

Application

- · Road and residential lighting
- \cdot Industrial lighting both indoor and outdoor
- $\boldsymbol{\cdot}$ Recreational sports facilities Outdoor and Indoor

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.

MASTER SON PIA Plus

Dimmable	Yes
Operating and Electrical	
Voltage (Max)	115 V
Voltage (Min)	85 V
General Information	
Cap-Base	E40
LSF 12000 h Rated	99 %
LSF 2000 h Rated	100 %
LSF 4000 h Rated	99 %
LSF 6000 h Rated	99 %
LSF 8000 h Rated	99 %
Operating Position	UNIVERSAL
System Description	External Ignitor
	(E)
Luminaire Design Requirements	
Bulb Temperature (Max)	350 °C
Light Technical	
Chromaticity Coordinate X (Nom)	0.535
	0.42
Chromaticity Coordinate Y (Nom)	0.42
` '	220
Colour Code	
Chromaticity Coordinate Y (Nom) Colour Code Correlated Colour Temperature (Nom) Colour Rendering Index (Max)	220
Colour Code Correlated Colour Temperature (Nom) Colour Rendering Index (Max)	220 2000 K
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Approval and Application

		Energy Consumption	Mercury (Hg)	Mercury (Hg)
Order Code	Full Product Name	kWh/1000 h	Content (Max)	Content (Nom)
928151409827	MASTER SON PIA Plus 150W/220	154 kWh	15.1 mg	15 mg
	E40 1SL/12			
928151608827	MASTER SON PIA Plus 100W/220	101 kWh	16.3 mg	16.3 mg
	E40 1SL/12			
928153309830	MASTER SON PIA Plus 250W/220	250 kWh	15.1 mg	15.1 mg
	E40 1SL/12			

Operating and Electrical

		Lamp			Re-Ignition
		Current	Voltage	Power	Time (Min)
Order Code	Full Product Name	(EM) (Nom)	(Nom)	(Nom)	(Max)
928151409827	MASTER SON PIA	0.178 A	100 V	154.0 W	180 s
	Plus 150W/220 E40				
	1SL/12				
928151608827	MASTER SON PIA	0.119 A	100 V	101.0 W	120 s
	Plus 100W/220 E40				
	1SL/12				

		Lamp			Re-Ignition
		Current	Voltage	Power	Time (Min)
Order Code	Full Product Name	(EM) (Nom)	(Nom)	(Nom)	(Max)
928153309830	MASTER SON PIA	0.300 A	96 V	250.0 W	120 s
	Plus 250W/220 E40				
	1SL/12				

General Information (1/2)

			Life To	Life To	
		Life To 10%	20%	50%	Life To 5%
	Full Product	Failures	Failures	Failures	Failures
Order Code	Name	(Nom)	(Nom)	(Nom)	(Nom)
928151409827	MASTER SON PIA	24000 h	28000 h	36000 h	20500 h
	Plus 150W/220				
	E40 1SL/12				

MASTER SON PIA Plus

			Life To	Life To	
		Life To 10%	20%	50%	Life To 5%
	Full Product	Failures	Failures	Failures	Failures
Order Code	Name	(Nom)	(Nom)	(Nom)	(Nom)
928151608827	MASTER SON PIA	21000 h	25000 h	29000 h	17000 h
	Plus 100W/220				
	E40 1SL/12				

			Life To	Life To	
		Life To 10%	20%	50%	Life To 5%
	Full Product	Failures	Failures	Failures	Failures
Order Code	Name	(Nom)	(Nom)	(Nom)	(Nom)
928153309830	MASTER SON PIA	24000 h	28000 h	36000 h	20500 h
	Plus 250W/220				
	E40 1SL/12				

General Information (2/2)

		LSF 16000 h	LSF 20000 h
Order Code	Full Product Name	Rated	Rated
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	98 %	95 %
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	97 %	91 %

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Light Technical (1/2)

		LLMF 12000 h	LLMF 16000 h	LLMF 2000 h	LLMF 20000 h
Order Code	Full Product Name	Rated	Rated	Rated	Rated
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	96 %	95 %	99 %	94 %
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	92 %	90 %	98 %	89 %

		LLMF	LLMF	LLMF	LLMF
		12000 h	16000 h	2000 h	20000 h
Order Code	Full Product Name	Rated	Rated	Rated	Rated
928153309830	MASTER SON PIA	96 %	95 %	99 %	94 %
	Plus 250W/220 E40				
	1SL/12				

Light Technical (2/2)

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								Ratio Scotopic/
		LLMF 4000 h	LLMF 6000 h	LLMF 8000 h	Luminous Efficacy	Luminous Flux	Luminous Flux	Photopic
Order Code	Full Product Name	Rated	Rated	Rated	(rated) (Nom)	(Nom)	(Rated) (Nom)	Lumens
928151409827	MASTER SON PIA Plus 150W/220	98 %	97 %	96 %	107.79 lm/W	16600 lm	16600 lm	0.55
	E40 1SL/12							
928151608827	MASTER SON PIA Plus 100W/220	96 %	95 %	94 %	95 lm/W	9600 lm	9600 lm	0.55
	E40 1SL/12							
928153309830	MASTER SON PIA Plus 250W/220	98 %	97 %	96 %	120 lm/W	30000 lm	30000 lm	0.60
	E40 1SL/12							

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928151409827	MASTER SON PIA Plus 150W/220 E40 1SL/12	BD90
928151608827	MASTER SON PIA Plus 100W/220 E40 1SL/12	B75

Order Code	Full Product Name	Bulb Shape
928153309830	MASTER SON PIA Plus 250W/220 E40 1SL/12	BD90

MASTER SON PIA Plus



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