Product Description

MASTER MHN-SA

Compact quartz metal halide lamps with double-pinch

Benefits

- Allows compact and very efficient luminaire systems with high precision optics for good beam control and minimal spill light
- Very good color rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers a superior solution for (semi-) professional stadiums with regular TV coverage

Features

- Very compact source (Short Arc) with high luminous efficacy and superior color rendering
- Double-pinch concept results in long lifetime
- Natural white color appearance, high color rendering and good color stability
- Daylight color temperature eases transition from daylight to artificial lighting

Application

- Professional sports lighting and floodlighting

Warnings and Safety

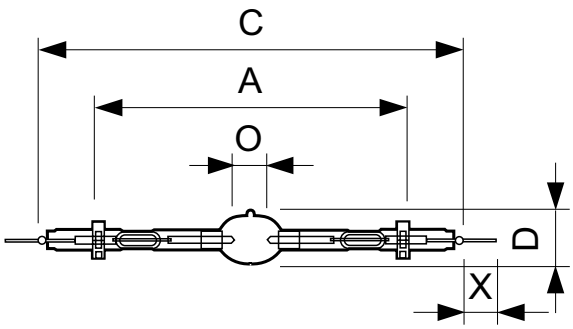
- Use only in totally enclosed luminaire, even during testing (IEC61167, IEC 62035, IEC60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and 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 MHN-SA

Versions

MHN-SA, X830R

Dimensional drawing



Product	D (max)	O	X	A	C (max)
MASTER MHN-SA 1800W/956 230V XW UNP/1	41 mm	25 mm	25 mm	318 mm	369 mm
MASTER MHN-SA 2000W/956 400V XW HO UNP/1	41 mm	25 mm	34 mm	226 mm	369 mm

Approval and Application	
Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
General Information	
Cap-Base	X830R
Life To 10% Failures (Nom)	2300 h
Life To 20% Failures (Nom)	3000 h
Life To 50% Failures (Nom)	5000 h
Operating Position	P15
Light Technical	
Chromaticity Coordinate X (Nom)	330
Color Code	956
Color Designation	Daylight
Correlated Color Temperature (Nom)	5600 K
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	TD40

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Mercury (Hg) Content (Nom)
928099205130	MASTER MHN-SA 1800W/956 230V XW UNP/1	1980 kWh	92 mg
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	2305 kWh	215 mg

Operating and Electrical (1/2)

MASTER MHN-SA

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928099205130	MASTER MHN-SA 1800W/956 230V XW UNP/1	17.3 A	130 V	110 V	120 V

Order Code	Full Product Name	Lamp Current (EM) (Nom)	Voltage (Max)	Voltage (Min)	Voltage (Nom)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	11.8 A	220 V	185 V	205 V

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
928099205130	MASTER MHN-SA 1800W/956 230V XW UNP/1	1800.0 W
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	2095.0 W

Light Technical (2/2)

General Information

Order Code	Full Product Name	Life To 5% Failures (Nom)
928099205130	MASTER MHN-SA 1800W/956 230V XW UNP/1	1800 h

Order Code	Full Product Name	Life To 5% Failures (Nom)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	1700 h

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928099205130	MASTER MHN-SA 1800W/956 230V XW UNP/1	980 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928195105129	MASTER MHN-SA 2000W/956 400V XW HO UNP/1	1015 °C

Light Technical (1/2)

Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Color Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
928099205130	MASTER MHN-SA 1800W/95	339	86	92 %	80 %

Order Code	Full Product Name	Chromaticity Coordinate Y (Nom)	Color Rendering Index (Nom)	Lumen Maintenance 1000 h (Nom)	Lumen Maintenance 2000 h (Nom)
	6 230V XW UNP/1				
928195105129	MASTER MHN-SA	366	81	96.5 %	92.5 %