

The Champ FMV nR Series Floodlight offers exceptional illumination in industrial areas, both indoors and out. And, it comes standard as a restricted breathing luminaire. The Champ FMV nR Series Floodlight is easily adjusted to aim light where it's needed and is available in a wide variety of energy-saving mogul base HID light sources and wattages including:

- 150–400W High Pressure Sodium
- 175–400W Metal Halide

Applications:

The FMV is made with heavy-duty, die-cast aluminum components and stainless steel hardware. It offers superior corrosion resistance to ensure longer life, which makes the FMV floodlight the ideal choice for a wide variety of industrial applications, including wet and marine environments.

Features and Benefits:

- AEx nR, Ex nR restricted breathing rating is standard—a hazardous location luminaire without additional accessories or options; restricted breathing offers cooler T-numbers for increased hazardous locations suitability
- NEMA 7x6 butterfly beam floodlight pattern—wide, uniform and far reaching to provide excellent efficiency and more light where you need it
- NEMA Type 4X and IP66 construction is designed for use indoors and outdoors in marine and wet locations—with stainless steel external hardware suitable for saltwater and corrosive applications
- Easy wiring—standard terminal block with marked terminals saves time and eliminates wiring errors
- Vapor-tight sealing cable connector—standard
- Will accommodate existing mounting hardware—SFA6 slipfitter for pole and SWB6 wall mount
- Optional metric machining will accept M20 or M25 (must be specified on order)
- 40°C, 55°C and 65°C ambient suitability—addresses high ambient common at industrial facilities
- Low ambient capability to -40°C—perfect for colder climates
- Heavy-duty, die-cast copper-free aluminum enclosure with epoxy coating and stainless steel hardware—provides a robust design with industrial grade construction and corrosion resistance
- Hinged door frame assembly—has captive cover screws for ease of relamping
- Yoke mount design—standard construction provides the greatest mounting flexibility, can be mounted vertically (wall), horizontally (rooftop or floor), or any angle in between

- 3-axis resonance withstand and UL844 vibration compliant—can stand up to the tough jobs
- Precision formed aluminum reflector—superior beam control, distribution and efficiency
- Multi-tap ballasts—offering a choice of 120, 208, 240 and 277V; 220V 50Hz, 240V 50Hz, Tri-Tap (120, 277 and 347), and 480V ballasts are also available
- High light output with a low cost of operation—cost-effectiveness in a high wattage floodlight
- For use with SFA6 Slipfitter Adapter and SWB6 Wall Mount Bracket accessories—further enhances mounting flexibility

Certifications & Compliances:

NEC/CEC (NEC Ballast Gear and Socket):

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, AEx nR II
- Class II, Division 1, Groups F, G (up to 250W)
- Marine locations
- NEMA Type 4X and IP66
- Wet locations

IEC (IEC Ballast Gear and Socket):

- IEC Zone 2, Ex nR II (pending)

UL/cUL Standards:

- 844—Hazardous (Divisions Classified) Locations
- 60079-15
- 1598—Luminaires
- 1598A—Supplemental Requirements for Luminaires for Installation on Marine Vessels

IEC Standards:

- 60079-15

Standard Materials:

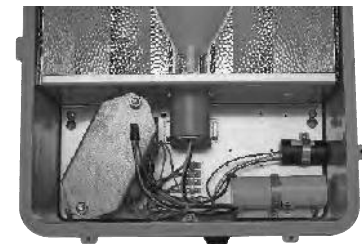
- Fixture housing and door frame assembly—die-cast aluminum
- External hardware—stainless steel
- Lens—heat- and impact-resistant tempered glass
- Yoke—aluminum

Standard Finishes:

- Enclosure and yoke—Corro-Free™ epoxy powder coat
- Stainless steel—natural



The only full frame trunnion mount floodlight with a T3 rating and a removable ballast tray assembly.



Industry Best for Ease of Installation:

1. Removable ballast tray
2. Prewired to terminal blocks
3. Substantial room for wiring

Ratings (Electrical/Size): Sources/Wattages (Mogul Base Lamps)

- HPS—150, 250, and 400W
- MH—175, 250, and 400W

Voltages

Standard Voltage Ballasts

- Multi-tap (120, 208, 240, and 277V 60Hz)
- Dual-tap (120 and 277V)
- 480V 60Hz
- Tri-tap (120, 277, 347V 60Hz)

Optional Voltage Ballasts

- 220V or 240V 50Hz (for export)
- 220V 60Hz (for export)

Isolated Ballasts

- 208, 240, or 480V (for Canada)

Hub Size

- Standard—3/4" NPT
- Optional—25 mm (M25 x 1.5) or 20 mm (M20 x 1.5)

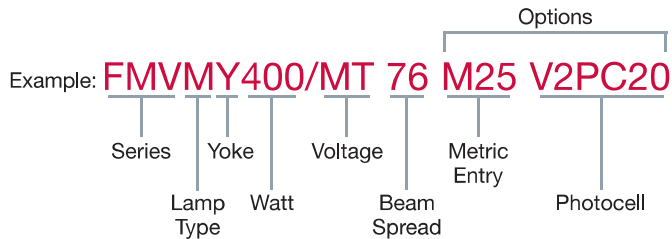
Ordering Information for Floodlight with NEC Ballast:

Lamp Type	Watts	Yoke Mount 3/4" NPT Hub
High Pressure Sodium	150	FMVSY150/MT 76
	250	FMVSY250/MT 76
	400	FMVSY400/MT 76
Metal Halide	175	FMVMY175/MT 76
	250	FMVMY250/MT 76
	400	FMVMY400/MT 76

Voltage Suffixes†

Voltage (60Hz)	Dual-Tap	Tri-Tap	Multi-Tap	480
Suffix	/DT	/TT	/MT	/480

†To complete catalog number, add voltage and options suffix(es).



†150W HPS fixtures are furnished with ANSI spec/S55 ballasts for 55V lamps. For 100V lamps, add suffix "CE" after voltage suffix. Example: FMVSY150/MT CE 76.

Options:

Description

Instant Restrike and Ballast Guard

Instant restrike—enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage
Ballast guard starter cut out switch—prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and ignitor life.

- 150W LX HPS only.....
- Factory assembled with HID lamp installed
- Fused (not suitable for marine applications).....
- 20mm metric thread for conduit opening
- 25mm metric thread for conduit opening
- 3/4" NPT hub conduit opening
- Furnished with lamps (not installed)
- Retention chain
- Pulse-Start Metal Halide
- Enclosure machined for 2 conduit/cable entries

Suffix

- TIR
- FA
- S658
- M20
- M25
- NPT75
- S714
- S831
- S828
- S886

Options for Photocell*:

Description

- Photocell 120V, 50/60Hz installed
- Photocell 208-240V, 50/60Hz installed
- Photocell 277V, 50/60Hz installed

- Suffix
- V2PC20
- V2PC22
- V2PC27

*Photocell for Div. 2 installation only.

Accessories (Order Separately):

Slipfitter Adapter

To be mounted to yoke mount fixture

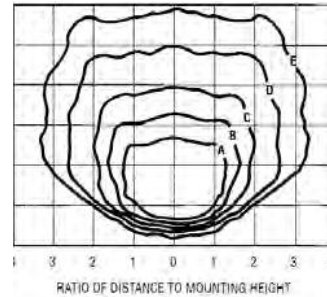
Fits onto 2" pipe/conduit

Wall Bracket

Use with slipfitter adapter SFA6 for easy

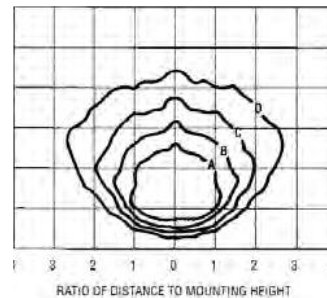
wall mounting and increased adjustability.....

Photometric Data:



Isofootcandle Chart FMV
400W High Pressure Sodium (HPS)
Catalog Number: FMVSY400-76
Lamp: 400W Clear HPS
Lumen Rating: 50,000
For 150W HPS, multiply footcandles by .32.
For 250W HPS, multiply footcandles by 0.6.
Fixture located at 0°, 0° aiming angle at 45°

(Note: See Figures 1 and 2).



Isofootcandle Chart FMV
400W Metal Halide (MH)
Catalog Number: FMVMY400-76
Lamp: 400W Clear MH
Lumen Rating: 34,000
For 250W MH, multiply footcandles by 0.6.
Fixture located a 0°, 0° aiming angle 45°

(Note: See Figures 1 and 2).

Effective Projected Area (EPA):

- For windloading
- For proper pole selection

Aiming Angle	EPA
0°	2.9 FT ²
30°	2.5 FT ²
45°	2.1 FT ²

Footcandle Table:

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
15'	8.0	4.0	2.0	0.80	0.40
20'	4.5	2.3	1.1	0.50	0.23
25'	2.9	1.4	0.7	0.30	0.14
30'	2.0	1.0	0.5	0.20	0.10
35'	1.5	0.7	0.4	0.15	0.07
40'	1.1	0.6	0.3	0.11	0.06

7L

Champ® FMV nR Floodlights

Cl. I, Div. 2, Groups A, B, C, D
Cl. I, Zone 2, AEx nR II

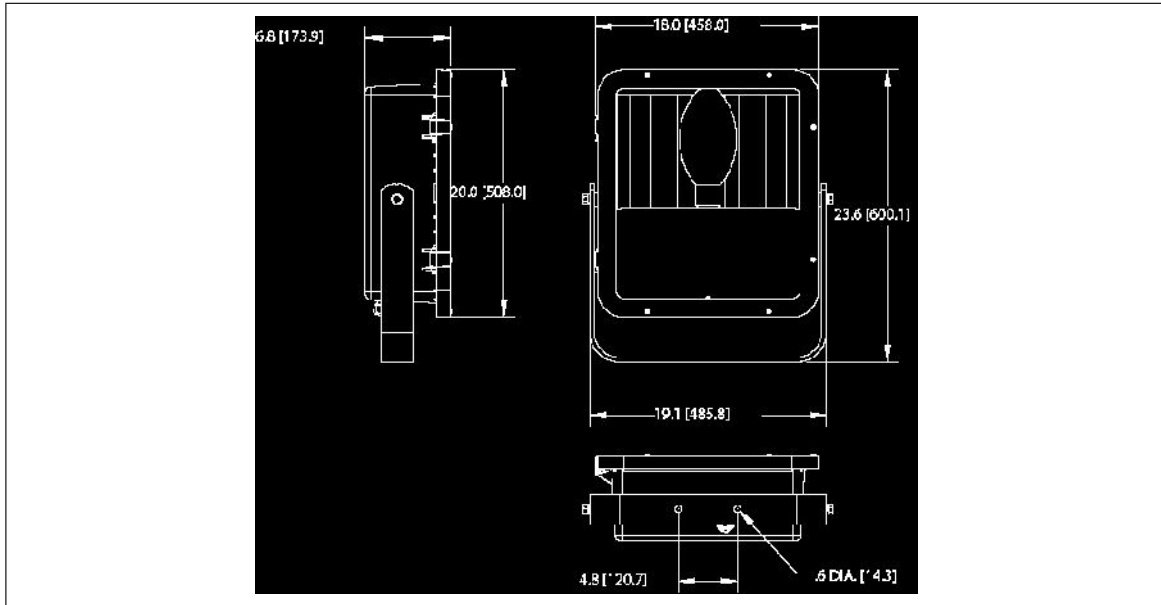
Marine locations
NEMA Type 4X and IP66
Wet locations

Weights and Dimensions:

Net Fixture Weights (Lbs.):

Fixtures	FMVS	FMVM
150W	37	37
175-250W	40	42
400W	44	44

SFA6 (Slipfitter Adapter)—Add 4 lbs., SWB6 (Wall Bracket)—Add 6 lbs.



7L

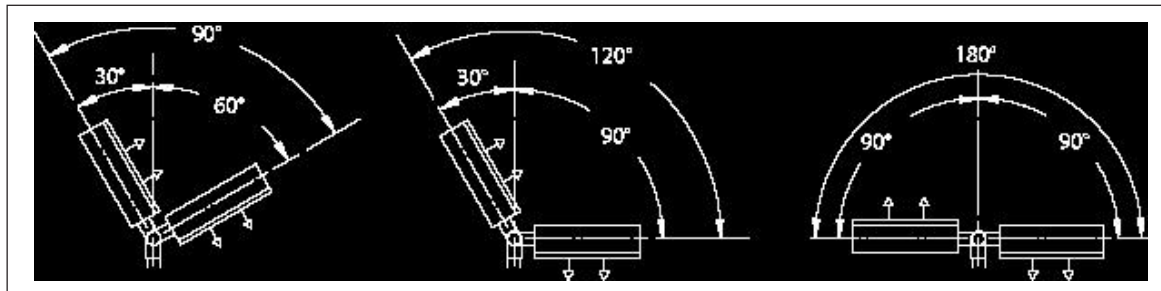


FIGURE 1

FIGURE 2

FIGURE 3

Temperature Performance Data:

Catalog Series	Lamp		40°C Ambient			55°C Ambient			65°C Ambient			Fixture Aiming	
			Temperature Code			Temperature Code			Temperature Code			Range	Figure
	Type	Watts	Class I, Zone 2	Class I, Div. 2	Supply Wire °C	Class I, Zone 2	Class I, Div. 2	Supply Wire °C	Class I, Zone 2	Class I, Div. 2	Supply Wire °C		
FMVS	High Pressure Sodium	150	T4	325	90	T4	325	90	T3	325	105	90°	1
			T4	325	90	T3	325	105	T3	325	105	120°	2
			T3	325	90	T3	325	105	T3	325	105	180°	3
	250	T4	325	90	T4	325	90	T3	325	105	90°	1	
		T4	325	90	T3	325	105	T3	325	105	120°	2	
		T3	325	90	T3	325	105	T3	325	105	180°	3	
		T3	T1	90	T3	T1	105	-	-	-	90°	1	
		T3	T1	105	T3	T1	125	-	-	-	120°	2	
		T3	T1	105	T3	T1	125	-	-	-	180°	3	
FMVM	Metal Halide	175	T4	325	90	T4	325	90	T3	325	105	90°	1
			T4	325	90	T4	325	105	T3	325	105	120°	2
			T3	350	90	T3	350	125	T3	T1	105	180°	3
		250*	T4	325	90	T4	325	90	T3	325	105	90°	1
			T4	325	90	T4	325	105	T3	325	105	120°	2
			T3	350	90	T3	350	125	T3	T1	105	180°	3
			T3	325	90	T3	325	105	-	-	-	90°	1
			T3	325	105	T3	325	125	-	-	-	120°	2
			T3	T1	105	T2	T1	125	-	-	-	180°	3
	400**	T4	325	90	T3	325	105	T3	325	105	90°	1	
		T4	325	90	T3	325	105	T3	325	105	120°	2	
		T3	350	90	T3	T1	105	T3	T1	105	180°	3	
		T4	325	90	T3	325	105	T3	325	105	90°	1	
		T4	325	90	T3	325	105	T3	325	105	120°	2	
		T3	350	90	T3	T1	105	T3	T1	105	180°	3	
	Pulse-Start Metal Halide	250*	T4	325	90	T3	325	105	T3	325	105	90°	1
			T4	325	90	T3	325	105	T3	325	105	120°	2
			T3	350	90	T3	T1	105	T3	T1	105	180°	3
320**		T4	325	90	T3	325	105	T3	325	105	90°	1	
		T4	325	90	T3	325	105	T3	325	105	120°	2	
		T3	350	90	T3	T1	105	T3	T1	105	180°	3	
350**	T3	350	105	T3	350	105	-	-	-	90°	1		
	T3	350	105	T3	T1	125	-	-	-	120°	2		
	T3	T1	105	T3	T1	125	-	-	-	180°	3		

*Suitable for use in 65°C ambient without optional fuses.
**Suitable for use in 55°C ambient without optional fuses.

Lamp Selection (Mogul Base):

Fixture	Watts Type	Bulb	G.E.	Osram	Philips
FMVSY150	150 HPS	ED23 ½ BT25	LU150/55	LU150/55	C150S55
FMVSY250	250 HPS	ED18 ½ or ET18	LU250	LU250	C250S50
FMVSY400	400 HPS	ED37 ½ BT37	LU400	LU400	C400S51
FMVMY175	175 MH	ED28 or BT28	MVR175/U	M175/U	MH175/U
FMVMY250	250 MH	ED28 or BT28	MVR250/U	M250/U	MH250/U
FMVMY400	400 MH	ED37 or BT37	MVR400/U	M400/U	MH400/U

Photometrics are available online.