

FZD floodlights are the first to deliver NEMA 7x6 floodlight distribution patterns for Class I, Division 1 and Zone 1 environments. That means you'll need fewer of them to illuminate a given area.

## Applications:

With its labor saving features and flexible mounting options, the FZD is ideal for:

- Heavy process industries where flammable or explosive vapors or gases are present
- Hazardous areas, both indoors and outdoors, including those requiring elevated ambient capability, where long life and low maintenance costs are desired
- Petroleum refineries, chemical, petrochemical and other heavy process industrial facilities
- Mounting to a wall, structure or pole (with pole mount adapter accessory)

## Features:

- NEMA 7x6 floodlight distribution pattern is standard – ideal light distribution for industrial applications; requires fewer luminaires in general lighting applications than required when using general area luminaires with high bay reflectors
- Internal reflector – available in wide and narrow beam options; enclosed in glass tube, reducing maintenance and enhancing light output
- Heavy duty cast copper-free aluminum construction with epoxy powder coat finish and stainless steel hardware – provides long life in industrial, abusive environments
- Explosionproof threaded construction – suitable for hazardous and industrial applications; easy to maintain with no bolted covers
- O-ring gaskets on all threaded openings – allow NEMA Type 4X and marine listing for the harshest outdoor environments
- 40°C, 55°C and 65°C ambient suitability – ideal for use in high ambient temperature areas common in industrial facilities
- Factory sealed ballast housing – keeps ballast isolated from wiring chamber
- Trunnion (yoke) mount design – standard construction provides the greatest mounting flexibility; can be vertically (wall) or horizontally (rooftop or floor) mounted
- Simple installation – requires only two bolts to mount
- Mounting flexibility – pole mount with SFA6-XP pole mount adapter or wall or ceiling mount with FZD-KIT1 mounting accessory kit



FZD with separate ballast enclosure

## Certifications and compliances:

### NEC/CEC:

- Class I, Division 1, Groups B (with suffix GB<sup>A</sup>), C, D
- Class I, Zone 1, Groups IIB + H<sub>2</sub> (with suffix GB<sup>A</sup>), IIB
- AEx d IIB + H<sub>2</sub> (with suffix GB<sup>A</sup>), IIB
- Ex d IIB + H<sub>2</sub> (with suffix GB<sup>A</sup>), IIB
- Marine and wet locations
- Enclosure Type 4X, IP66
- UL Listed (UL standards 844, 1598, 1598A, 2279)
- cUL Listed (certified by UL to CSA standard C22.2 No. 137 and CAN/CSAE60079-1)

## Standard materials:

- Luminaire housing, covers, socket holder and lamp tube end rings – copper-free aluminum
- External hardware – stainless steel
- Glass lamp tube – heat- and impact-resistant tempered glass
- O-ring gaskets – neoprene/silicone
- Yoke – aluminum
- Trunnion adapter – brass

## Standard finishes:

- Aluminum – Corro-free epoxy powder coat
- Stainless steel – natural
- Brass – natural



Pole mount adapter

## Electrical ratings:

### Sources/wattages (mogul base lamps):

- High pressure sodium (HPS) – 150, 250, 400W
- Metal halide (MH) – 175, 250, 400W

### Voltages:

#### Standard voltage ballasts

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

#### Optional voltage ballasts

- 220V, 60 Hz
- 220V, 50 Hz

### Hub sizes:

- Standard – two 3/4" NPT entries
- Optional – two 25mm (M25) entries (contact factory)

## Photometrics:

- Complete photometrics can be found at [www.crouse-hinds.com/photometrics](http://www.crouse-hinds.com/photometrics)

<sup>A</sup>See Options section for Group B and IIB + H<sub>2</sub> ordering information.

## Ordering information:

Lamp type	Watts	Cat. # Yoke mount with 3/4" NPT hubs <sup>ⓐ</sup>
<b>Wide beam reflector – NEMA 7x6 distribution</b>		
High pressure sodium	150 <sup>ⓐ</sup>	FZDS2NY150W/MT
	250	FZDS2NY250W/MT
	400	FZDS2NY400W/MT
Metal halide	175	FZDM2NY175W/MT
	250	FZDM2NY250W/MT
	400	FZDM2NY400W/MT
Pulse start metal halide	175	FZDM2NY175W/MT S828
	250	FZDM2NY250W/MT S828
	400	FZDM2NY400W/MT S828
<b>Narrow beam reflector – spotlight distribution</b>		
High pressure sodium	150 <sup>ⓐ</sup>	FZDS2NY150N/MT
	250	FZDS2NY250N/MT
	400	FZDS2NY400N/MT
Metal halide	175	FZDM2NY175N/MT
	250	FZDM2NY250N/MT
	400	FZDM2NY400N/MT
Pulse start metal halide	175	FZDM2NY175N/MT S828
	250	FZDM2NY250N/MT S828
	400	FZDM2NY400N/MT S828

## Complete catalog number as follows:

### 1. Add voltage suffix to end of catalog number.

Standard voltage ballasts – 60 Hz

Optional voltage ballasts – 50 or 60 Hz

Voltage	Multi-tap	Tri-tap	120V	480V	Voltage	220V 50 Hz	220V 60 Hz
Suffix	/MT	/TT	/120	/480	Suffix	/220 50	/220

### 2. Options: Add the required option suffixes in alphanumeric order.

## Options:

Description	Suffix
• Ballast-Gard starter cut-out switch – prevents starter pulsing when lamp is cycling or inoperative; prolongs ballast and igniter life ....	<b>BG</b>
<i>Available with HPS only</i>	
<i>Not available with IR option</i>	
• Factory assembled with HID lamp installed for additional labor savings.....	<b>FA</b>
• Factory certified – Class I, Division 1, Group B and Class I, Zone 1, Group IIB + H <sub>2</sub> .....	<b>GB</b>
• Instant restrike – enables a hot HPS lamp to immediately restrike after a momentary loss of arc due to voltage fluctuation or power outage; has no effect on the warm-up period of cold lamps .....	<b>IR</b>
<i>Available for use with 150W HPS only</i>	
• Fusing – protects ballast and capacitor against abnormal line conditions .....	<b>S658<sup>ⓐ</sup></b>
<i>Not suitable for marine applications</i>	

## Ordering information – FZD with separate ballast enclosure:

### Glass fiber-reinforced polyester ballast enclosure with cable entry

Lamp type	Watts	T-code	Cat. #
<b>Wide beam reflector – NEMA 7x6 distribution</b>			
HPS/MH	250	T4	NOR 000 005 192 506
Metal halide	400	T3	NOR 000 005 194 106
High pressure sodium	400	T3	NOR 000 005 194 006
<b>Narrow beam reflector – spotlight distribution</b>			
HPS/MH	250	T4	NOR 000 005 192 505
Metal halide	400	T3	NOR 000 005 194 105
High pressure sodium	400	T3	NOR 000 005 194 005

## Stainless steel ballast enclosure with cable entry

Lamp type	Watts	T-code	Cat. #
<b>Wide beam reflector – NEMA 7x6 distribution</b>			
HPS/MH	250	T4	NOR 000 005 192 502
Metal halide	400	T3	NOR 000 005 194 102
High pressure sodium	400	T3	NOR 000 005 194 002
<b>Narrow beam reflector – spotlight distribution</b>			
HPS/MH	250	T4	NOR 000 005 192 501
Metal halide	400	T3	NOR 000 005 194 101
High pressure sodium	400	T3	NOR 000 005 194 001

## Accessories (ordered separately):

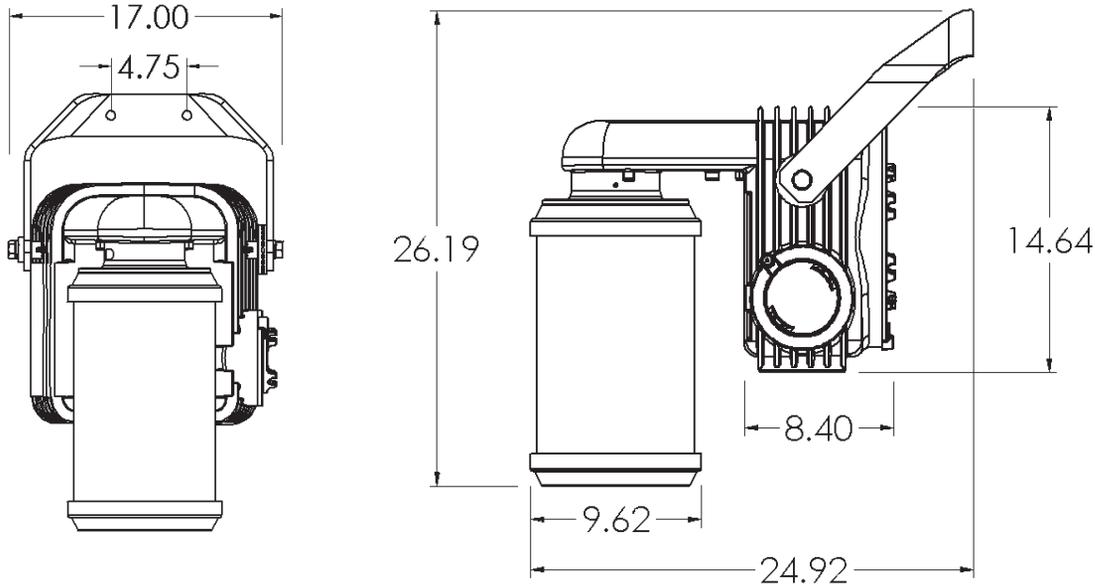
Description	Cat. #
• Flexible explosionproof coupling .....	<b>ECLK236</b>
• Elbow fitting .....	<b>EL296-SA</b>
<b>For pole mounting:</b>	
• Pole mount adapter .....	<b>SFA6-XP</b>
<i>Class I, Division 1, Groups B, C, D</i>	
<i>Attach to yoke; fits 2" NPT conduit pole</i>	
<b>For wall or ceiling mounting:</b>	
• Wall/ceiling mount kit .....	<b>FZD-KIT1</b>
<i>Includes: EABC26 SA conduit outlet box, ECLK236 flexible explosionproof coupling and EL296 SA elbow fitting</i>	

<sup>ⓐ</sup>All FZD catalog numbers shown above are with multi-tap ballasts (120, 208, 240, 277V, 60 Hz). The 'MT' in the catalog number may be changed to any of the voltage suffixes listed.

<sup>ⓐ</sup>150 watt HPS luminaires are furnished with ANSI spec./S55 ballasts for 55V lamps.

<sup>ⓐ</sup>When ordering fuses for luminaires, you must specify the operating voltage. S658 cannot be ordered with /MT in the catalog number.

## Dimensions (in inches):



## Temperature performance data:

Watts / type	Ambient temp. °C	Class I, Div. 1; Zone 1	Supply wire °C
150W HPS	40	T3C	75
	55	T3C	75
	65	T3B	90
250W HPS	40	T3C	75
	55	T3C	75
	65	T3B	90
400W HPS	40	T3C	75
	55	T3C	75
	65	T3B	90
	40	T3A	75
175W MH	55	T3	75
	65	T3	90
	40	T3A	75
250W MH	55	T3	75
	65	T3	90
	40	T3A	75
400W MH	55	T3	75
	65	T3	90

## Weights:

Watts	Weight (lbs.)	
	HPS	MH
150	72.00	75.00
175-250	77.00	77.00
400	80.00	80.00

6L