

F2C Ex Floodlight

Product Introduction

F2C flood lights are designed to withstand the harshest conditions within Zone 1 IIC gas environments. With wattage ranges from 150W – 400W, the F2C has a robust design including a housing made from copper-free aluminum, tempered glass lens and stainless steel mounting hardware to withstand the toughest environments. The fixture is equipped with a custom optical system, providing a wide array of high-efficiency optical selections. Optical selections include both symmetrical and asymmetrical, with additional wide, medium and narrow beam options, providing a wide array of options to suit any application.

Suitable for Zone 1 Ex-gas and Zone 21/22 Ex-dust hazardous areas, such as heavy industrial, chemical, petrochemical or pharmaceutical facilities, platforms, shipyards, electric power, loading docks, wastewater treatment and paper mill.



Product Features

- Rugged design, superior vibration, corrosion and impact resistant:
 - Housing - copper-free aluminum w/ Epoxy powder coating grey as standard, optional PTFE coating
 - Cover - tempered glass
 - Reflector - high purity mirror aluminum
- Custom optical system, providing a wide array of high-efficiency optical selections:
 - Asymmetrical & symmetrical photometry with wide, medium and narrow beam options
- Rugged Ex ed design for ATEX Zone 1, 2 & Zone21, 22 application; IP66 protection
- Wide temperature range in IIC and IIB+H₂ hazardous environment:
 - IIC Ambient Temp.: -20°C ~ +60°C
 - IIB+ H₂ Ambient Temp.: -40 °C ~ +60°C
- Increased serviceability, with easy access for wiring and lamp replacement, reducing maintenance time
- Universal yolk bracket with wide installation angle, vertical adjustment from -90° to +60°
- Optional shield and guard available

Technical Data

Marking acc. to ATEX	Ⓢ IIC G Ex d e IIC T* Gb(Ta -20°C to +60°C) Ⓢ Ex d e IIB+H ₂ T* Gb(Ta -40°C to +60°C) Ⓢ Ex tb IIIC T***°C Db IP66(Ta -40°C to +60°C)
Marking acc. to IECEx	Ex d e mb IIC T* Gb(Ta -20°C to +60°C)or Ex d e mb IIB+H ₂ T* Gb(Ta -40°C to +60°C) Ex tb IIIC T***°C Db IP66(Ta -40°C to +60°C)
Marking acc. to GB	Ex d e mb IIC T* Gb (Ta -20°C to +60°C) Ex d e mb IIB+H ₂ T* Gb (Ta -40°C to +60°C) DIP A21 T _A °C IP66 (Ta -40°C to +60°C)
Permissible ambient temp.	-40°C~+60°C (IIB+H ₂) / -20°C~+60°C (IIC)
Power factor	≥ 0.9
Rated Voltage	220 V / 230V / 240V, 50 Hz & 220V / 230 V/ 240V, 60Hz
Connection Terminal	ATEX: 6 core conductor/cable, Solid max. 6mm ² , Flexible max. 4mm ² IECEx/GB: 6 core conductor/cable, Solid max. 4mm ² , Flexible max. 2.5mm ²
Insulation class	I
Lamp	HPS: 150W, 250W, 400W MHS: 150W, 250W, 400W MHM: 400W
Lamp holder	E40
IP rating	IP66
Optical	Symmetrical(wide, Medium, narrow) & Asymmetrical (wide, narrow)
Cable entry	2xM20x1.5 / 2xM25x1.5, 1 entry pre-plugged
Weight	Refer to below Temperature Class Feature table
Fittings	Guard & glare shield

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Ordering Logic

F2C Series No.	S Lamp type	1M Entry size	15 Wattage	U1 Voltage	H Ballast type	C1 Beam type	/LT Ambient temperature	/G Guard	/S Glare shield	/E Certificate	P Coating
F2C	S=HPS M=MH	1M=M20 2M=M25	15=150W 25=250W 40=400W	U1=220/230 /240V 50Hz U2=220/230 /240V 60Hz	Default=luminaire fixed with sodium ballast (for HPS, MHS) H=luminaire fixed with mercury ballast (only for 400W MHM)	C1=Symmetrical-W C2=Symmetrical-M C3=Symmetrical-N B1=Asymmetrical-W B3=Asymmetrical-N	Default=-20°C~+60°C /LT=-40°C~+60°C	Default=without guard /G=with guard	Default=Without glare shield /S=with glare shield	Default=ATEX version /E=IEC version /E/B= GB version	Default= Epoxy powder coating P= PTFE coating

Temperature Class Feature

Lamp Power	Gas Group	Temperature Classification	Dust Marking	Ambient Temperature Range	Cable Temperature Rise	Weight (Kg)
150W	IIC	T4	T120°C	-20°C~+60°C	27°C	35
	IIB+H ₂	T4	T120°C	-40°C~+60°C		
250W	IIC	T3	T145°C	-20°C~+60°C	32°C	35
	IIB+H ₂	T3	T145°C	-40°C~+60°C		
400W	IIC	T3	T175°C	-20°C~+60°C	38°C	35
	IIB+H ₂	T3	T175°C	-40°C~+60°C		

Installation and Dimension

Ceiling Mounting Bracket

Pole Mounting Bracket

Luminaire Adjustment Range

WARNING
TO AVOID IGNITION OF HAZARDOUS ATMOSPHERES OR OVERHEATING OF FIXTURE, DO NOT POSITION FIXTURE BEYOND AMBING RANGE LIMITS.
AMBING RANGE

Accessories (Order Separately)

Material code	Product description
CHR8879	Guard SS304 SST
CHR8880	Guard SS316 SST
CHR8883	Glare Shield SS304
CHR8884	Glare Shield SS316
CHR8968	Glare Shield Painted Steel
CHR8856	U bracket 304SST
CHR8857	U bracket 316SST
CHR8858	U bracket Painted Steel
CHR8859	Ceiling bracket 304SST
CHR8860	Ceiling bracket 316SST
CHR8861	Ceiling bracket Painted Steel
CHR8862	Pipe bracket 304SST
CHR8863	Pipe bracket 316SST
CHR8864	Pipe bracket Painted Steel

Polar Curve

