

EFKB Series Photocontrol

Explosionproof, Dust-Ignitionproof

NEC:

Class I, Division 1 and 2, Groups C, D
 Class II, Division 1 and 2, Groups E, F, G
 Class III
 NEMA 3, 7CD, 9EFG

Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- FD factory sealed single gang cast device boxes confine arcing of device within the enclosure, preventing ignition of ignitable atmospheres during operation.
- For remote mounting.

Features

- Eliminate need for adding sealing fittings and compound at each conduit entrance.
- Smooth, rounded integral bushing in each EFD/EFDB hub protects conductor insulation.
- Accurately tapped, tapered hubs for tight, rigid joints and ground continuity.
- Corrosion resistant captive stainless steel hex head cap screws hold covers to body.

- Clearly marked terminals with brass screws assure quick, easy wiring.
- Sealing chamber has smooth, double flanges that mate both to cover and mounting enclosure to provide flame-tight joints.
- Pigtail leads from push buttons are factory sealed in sealing well.

Standard Materials

- Body: malleable iron or copperfree (4/10 of 1% max.) aluminum
- Cover: copperfree (4/10 of 1% max.) aluminum


Standard Finishes

- Body and cover: body, triple-coat—(1) zinc electroplate, (2) chromate, and (3) epoxy powder coat


NEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203
- UL Listed: E10449, E81751

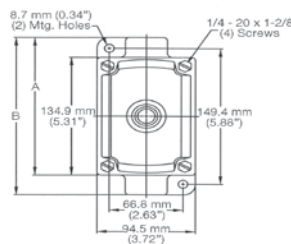
Photocontrol Relay Cover

	Voltage Range	Catalog Number
	120 V, 50/60 Hz	EFKB-PC120
	208-277 V, 50/60	EFKB-PC277

FD Back Box

	Type	Hub Size (Inches)	Catalog Number	
			Malleable Iron	Aluminum
	Dead-End	1/2	EFD150NLQ	EFD150ANLQ
		3/4	EFD175NLQ	EFD175ANLQ
		1	EFD110NLQ	EFD110ANLQ
Feed-Thru	1/2	EFDC150NLQ	EFDC150ANLQ	
	3/4	EFDC175NLQ	EFDC175ANLQ	
	1	EFDC110NLQ	EFDC110ANLQ	

Dimensions in Millimeters (Inches)



PCD2 Series Factory Sealed Hazardous Location Photocontrol

For use in Class I, Division 2, Groups A, B, C, D locations

Maintains Class I, Division 2 rating for Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires, Mercmaster LED

NEC/CEC:
Class I, Division 2, Groups A, B, C, D
NEMA 4X

Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with Mercmaster III – Low Profile, Mercmaster III, and Mercmaster III – 400 Series Luminaires.
- For remote mounting in FS Boxes.

- 50-400 W HID, incandescent or fluorescent, 50/60 Hz.
- 1000 V.A. Voltage/Ampere
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18AWG stranded leads 152.4 mm (6 in) in length.
- Will fit through standard 1/2" knockout.
- Supplied with locknut and gasket.

Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.

Materials

- Encapsulated with epoxy sealing compound
- FS: aluminum

NEC/CEC Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
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Factory-Installed Photocontrol - Not for ceiling or pendant cone.
Add to fixture catalog after voltage; i.e.: **KPWBL1075MTH1**.



Mercmaster III wall mounting hood with photocontrol installed shown

120 V, 50/60 Hz	1000	—	H1
208 V, 50/60 Hz	1000	—	H2
240 V, 50/60 Hz	1000	—	H3
277 V, 50/60 Hz	1000	—	H4

Photocontrol for Field Installation



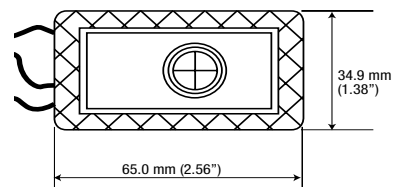
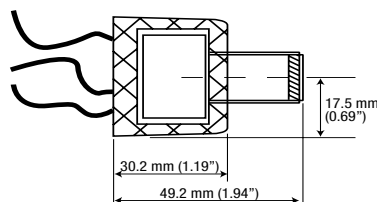
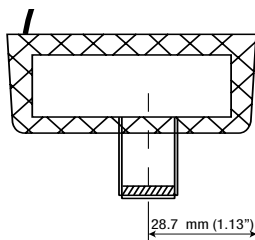
120 V, 50/60 Hz	1000	8.3 Amp	PC120D2
208 V, 50/60 Hz	1000	4.8 Amp	PC247D2
240 V, 50/60 Hz	1000	4.2 Amp	
277 V, 50/60 Hz	1000	3.6 Amp	

Photocontrol in FS Cover for Use with FS/FD Box

Photocontrol assembly supplied with two stainless steel screws and one neoprene gasket.
For additional neoprene gaskets, order catalog numbers **FS-GKR-1N**.



120V, 50/60 Hz	1000	8.3 Amp	FSKA-PC120D2
208, 50/60 Hz	1000	4.8 Amp	FSKA-PC247D2
240 V, 50/60 Hz	1000	4.2 Amp	
277 V, 50/60 Hz	1000	3.6 Amp	



PC Series Industrial Photocontrol ①

For Use in Ordinary Locations

For use with all Mercmaster III and Mercmaster LED luminaires

NEC/CEC:

Rated for Ordinary (Unclassified) Locations

Applications

- Durable polycarbonate housing with a clear UV stabilized window ultrasonically welded in place.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with all LED Series.
- For remote mounting in FS Boxes.




- Supplied with locknut and gasket.
- Specifications:
 - Turn on: 1 to 4 Fc
 - Turn off: 3 to 12 Fc
 - Time Delay: 30 seconds, minimum
 - Rated Life: 5,000 operation, minimum at rated load

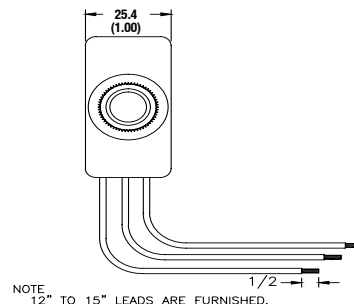
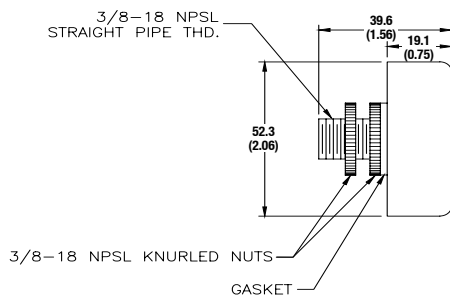
Features

- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.
- 1000 V.A.
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18AWG stranded leads 152.4 mm (6.00 in) length.
- Will fit through standard 1/2" knockout.

Materials

- Photocell Housing: UV resistant polycarbonate
- FS Cover: aluminum

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
Factory Installed Photocontrol – Not for ceiling or pendant cone Add to fixture catalog after voltage; i.e.: IMLLEDA32P5BU5.				
 Mercmaster III wall mounting hood with photocontrol installed shown	120 V, 50/60 Hz	1000	—	5
	208 V, 50/60 Hz	1000	—	6
	240 V, 50/60 Hz	1000	—	7
	277 V, 50/60 Hz	1000	—	8
Photocontrol, purchased separately				
	120 V, 50/60 Hz	1000	8.3 Amp	PC120
	208 V, 50/60 Hz	1000	4.8 Amp	PC248
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	
Photocontrol in FS Cover for Use with FS/FD Box Supplied with two stainless steel screws. For neoprene gasket, order catalog number FS-GKR-1N .				
	120 V, 50/60 Hz	1000	8.3 Amp	FSKA-PC120
	208 V, 50/60 Hz	1000	4.8 Amp	FSKA-PC247
	240 V, 50/60 Hz	1000	4.2 Amp	
	277 V, 50/60 Hz	1000	3.6 Amp	



① Fixtures with photocontrols are rated Type 3R.