

Miniature Day/Night Exchanger



Fig 1. CCS-EXM-IRC21 (left), M12-EXM-IRC21 (right)

Description

The M12-EXM-IRC21 and CCS-EXM-IRC21 are IR cut-off filter exchangers that allow true day/night (TDN) operation with the Pixim DPS chipsets. For daytime operation an absorptive color filter provides true color rendition. At night, an AR coated window allows maximum light transmission.

Key Features

- Maximum light transmission in low-light conditions
- Latching solenoid requires power only to switch

Applications

- Security and surveillance camera
- Designed specifically to fit the Pixim DPS chipsets
- Absorptive filter optimized for best color
- True color rendition during the day

Key Specifications

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Description	IR cut filter exchanger
Latching Solenoid	Power required only to switch; see specs
Switch signal	$\pm 3.3V$ 100ms
Integrated Lens Mount	M12-EXM-IRC21: M12x0.5 CCS-EXM-IRC21: None
Day Operation	IR cut filter, IRC21
Night Operation	AR coated window
Operational Mode	Standard Mode +red, -black. Reverse anode/cathode to reverse mode. Day mode: IRC21, Night mode: window
Min nominal BFL	~5mm (M12-EXM Only)

Low-Light Image Comparison



SUBJECT TO CHANGE WITHOUT NOTICE

Sunex Inc.

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Order samples online at www.optics-online.com

M12-EXM-IRC21

Electrical and Mechanical Specifications (mm):

Note:

1. Holder and vane Material: PC(Black)

2. Electric specification:

- Rating voltage: 3.0DCV
- Power consumption: 0.81W at 3.0DCV
- Work voltage: 2.5 to 3.5DCV (3.0V-3.3V Recommended)
- Rating current: 270mA
- DC resistance: 110HM +5 % at 20 degree
- Insulation resistance: 50M OHM min at 500V
- Resist voltage: 250V AC 1 Minute
- Work temperature: -10 to +40
- Lifetime : 30000 times min

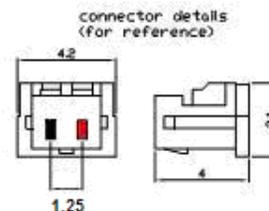
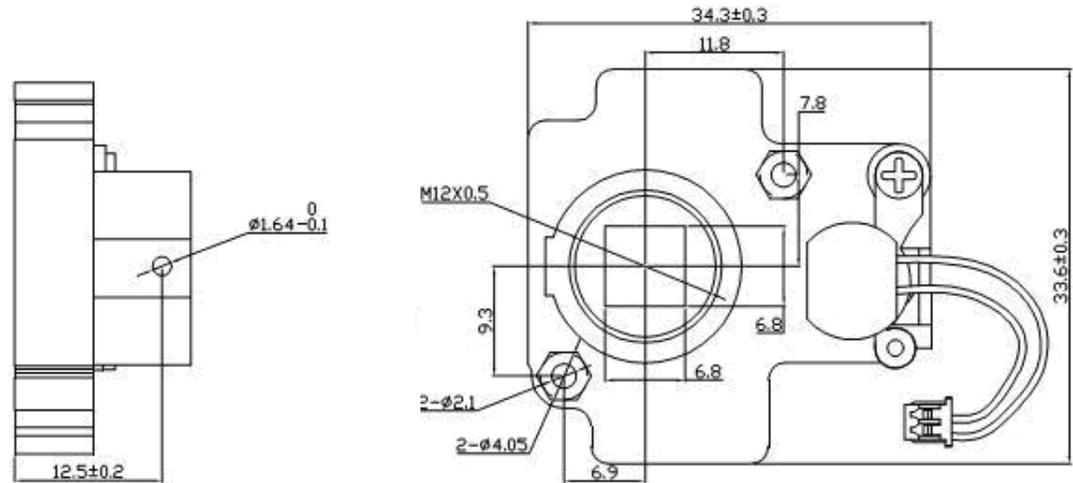
3. Standard 2-pin connector with >70mm wire

4. Reverse anode/cathode for operation

5. Work mode:

night mode: filter C-K9(1.2mm thickness)

day mode: filter QB21(1.2mm thickness)

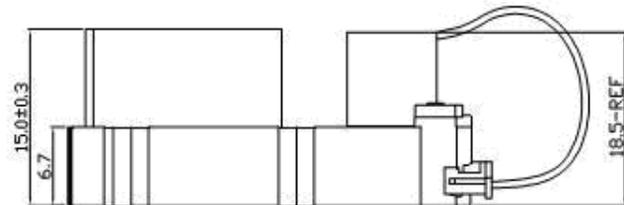


Mating connector:

2 pin Molex SMDR/A1.25mm x 2

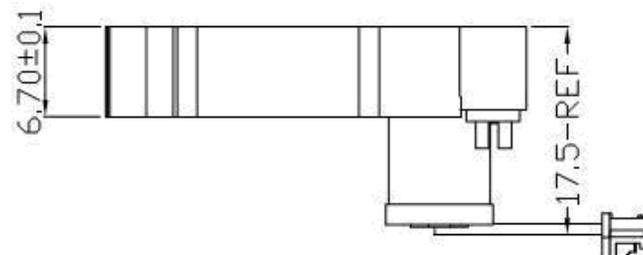
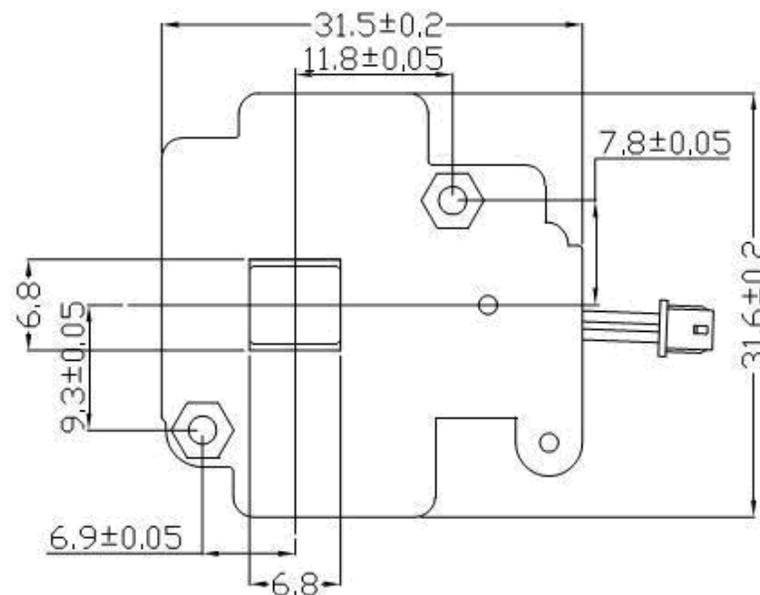
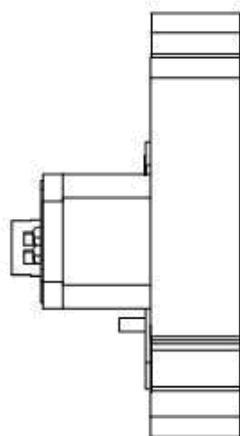
Part number 53261-0271

(Available from Digikey as stock number WM7620CT)



CCS-EXM-IRC21

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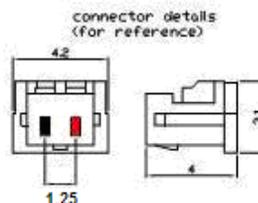
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