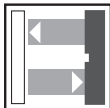




FE-MLS8C/9C Series Long Range AC Sensors

- Harsh-duty polycarbonate housing
- DPDT Relay
- Gun sight for easy mechanical alignment

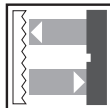


Diffused Mode

See page 534

Sensing Ranges: 2.7m

Outputs: Relay



Retro-Reflective Mode

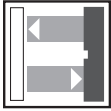
See page 534

Sensing Ranges: 12m

Outputs: Relay

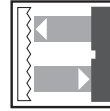
See pages 535-536 for FE-MLS8C/9C Series specifications, wiring and dimensions.

Photoelectric Sensors



Diffused Mode

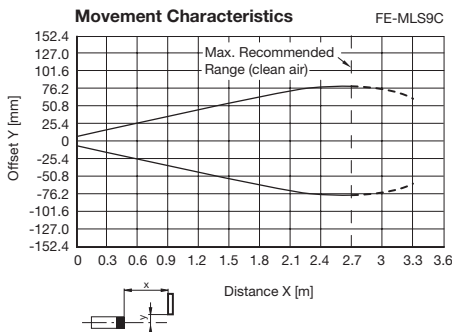
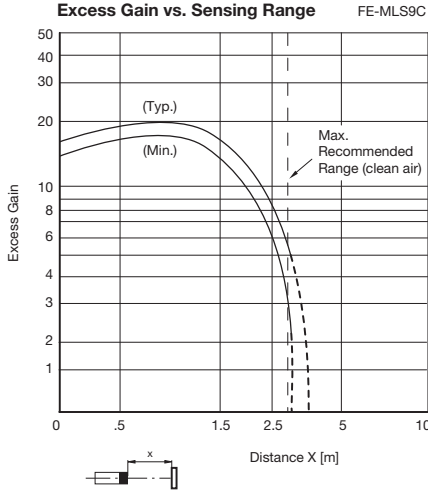
Specifications		
SENSING RANGE	2.7m	
SENSITIVITY ADJUSTMENT	No	
MODEL NUMBER(S)	FE-MLS9C	
OUTPUT	DPDT relay	
SUPPLY VOLTAGE	102-132VAC	
RESPONSE TIME	≤30ms	
SWITCHING FREQUENCY	16Hz	
APPROVALS		
 	General Purpose	No
	General Purpose	No
ADDITIONAL DATA	See pages 535-536	



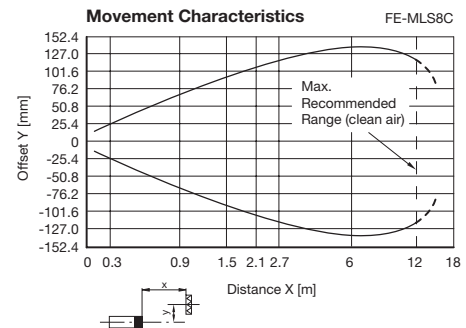
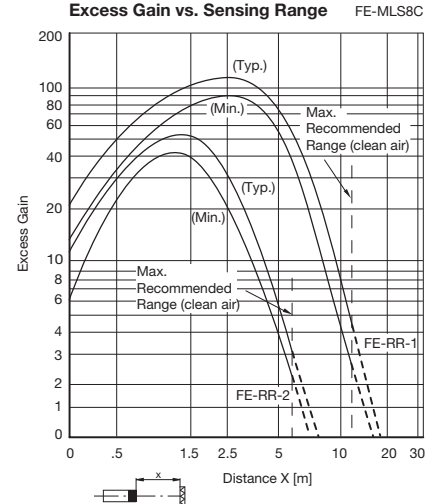
Retro-Reflective Mode

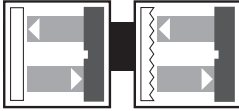
Specifications		
SENSING RANGE	12m	
SENSITIVITY ADJUSTMENT	Yes	
MODEL NUMBER(S)	FE-MLS8C	
OUTPUT	DPDT relay	
SUPPLY VOLTAGE	102-132VAC	
RESPONSE TIME	≤20ms	
SWITCHING FREQUENCY	25Hz	
APPROVALS		
 	General Purpose	Yes
	General Purpose	Yes
ADDITIONAL DATA	See pages 535-536	

Sensing Characteristics



Sensing Characteristics

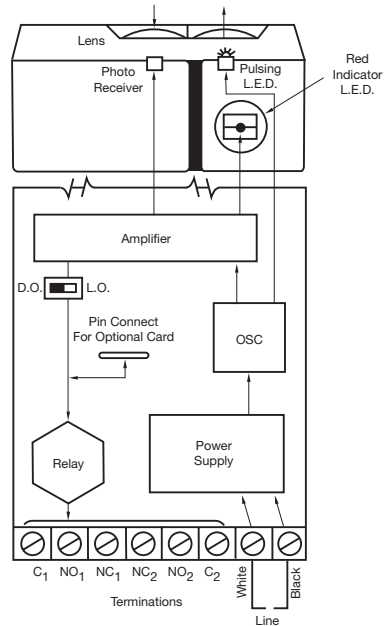




Series Specifications

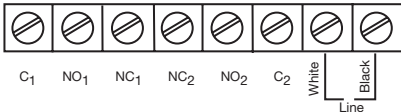
MLS8C/9C Series Specifications	
ELECTRICAL CONTACT RATING	115V/10A
LED(s)	Yes (1)
POWER CONSUMPTION	≤5VA
MECHANICAL LIFE OF RELAY	500,000 operations
OPERATING MODE	Light on/dark on
ELECTROMAGNETIC COMPATIBILITY COMPLIANCE	NEMA ICS5-2000 See page 6
PROTECTION (IEC)	IP67
LIGHT SOURCE	Infrared LED
TEMPERATURE RANGE	-40°F to +158°F
HOUSING MATERIAL	Glass reinforced polycarbonate
LENS	Plastic
ELECTRICAL CONNECTION	Terminal connection

FE-MLS8C and FE-MLS9C Functional Block Diagram

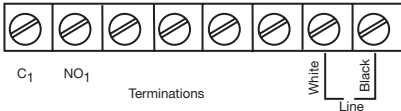


FE-MLS8C Wiring and Alignment

- Remove the rear housing cover.
- Connect the load and load supply (common) to selected terminals. Standard relay connections shown below.



- Solid state relay connections shown below.



- Connect AC power (through the conduit opening) to the "LINE" terminals. The white and black input wires must be connected to the proper terminals. See the control nameplate for correct line voltage.
- Set the mode selector switch to the light operate (L.O.) position.
- Apply power. The alignment indicator light visible at the top of the control will remain OFF with no reflector present.

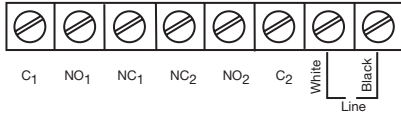
- Position the reflector opposite the lens. The indicator will turn On when control and reflector are in alignment.
- Center the reflector in the beam (by watching the indicator as the reflector is moved up, down, left and right). Use adhesive or a #8 screw (for the 3-inch disc) to mount the reflector.
- Block the invisible beam with the object to be detected. When the beam is blocked, the indicator will be Off.
- Fully tighten the mounting bolts, and again block the beam to recheck alignment.
- If direct On-Off dark operation is desired (relay energized when the beam is blocked), move the mode selector switch to the dark operate (D.O.) position.
- Insert optional function card firmly (if used) and adjust pots as required.
- Replace cover and tighten both screws.

Photoelectric FE-MLS8C/9C Series Long Range

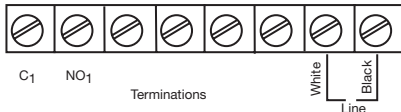
Photoelectric Sensors

FE-MLS9C Wiring and Alignment

1. Remove the rear housing cover.
- 2a. Connect the load and load supply (common) to selected terminals. Standard relay connections shown below.



- 2b. Solid state relay connections shown below.

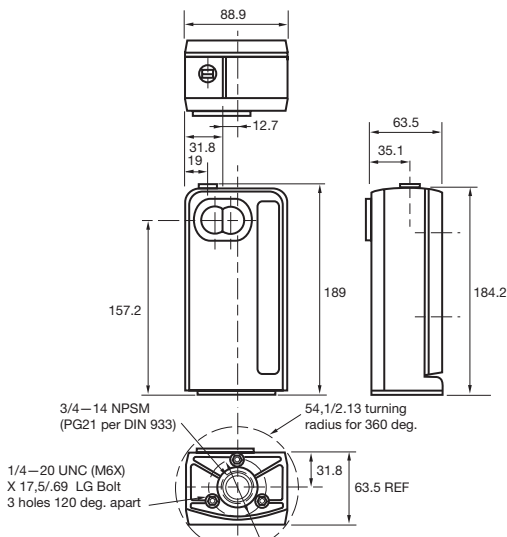


3. Connect AC power (through the conduit opening) to the "LINE" terminals. The white and black input wires must be connected to the proper terminals. See the control nameplate for correct line voltage.
4. Set the mode selector switch to the light operate (L.O.) position.
5. Apply power. The alignment indicator light visible at the top of the control will remain OFF with no reflector present.

6. Position the reflector opposite the lens. The indicator will turn On when control and reflector are in alignment.
7. Center the reflector in the beam (by watching the indicator as the reflector is moved up, down, left and right). Use adhesive or a #8 screw (for the 3-inch disc) to mount the reflector.
8. Block the invisible beam with the object to be detected. When the beam is blocked, the indicator will be Off.
9. Fully tighten the mounting bolts, and again block the beam to recheck alignment.
10. If direct On-Off dark operation is desired (relay energized when the beam is blocked), move the mode selector switch to the dark operate (D.O.) position.
11. Insert optional function card firmly (if used) and adjust pots as required.
12. Replace cover and tighten both screws.

Dimensions (mm)

FE-MLS8C and FE-MLS9C Sensors



Accessories

(Dimensions in mm)

Mounting Bracket Model FE-MB8

