

**SPECIFICATIONS**

**MODEL # SE-IR/3311 WITH HEATER OPTION**  
**SINGLE EYE INFRARED**  
**OVER-HEIGHT VEHICLE DETECTION SYSTEM**



**SOURCE**



**DETECTOR**

SPECIFICATIONS:

MODEL	SE-IR/3311 -H	SE-IR/3311 -F-H	SE-IR/3311 -230-H	SE-IR/3311 -F-230-H	SE-IR/3311 -24-H	SE-IR/3311 -F-24-H
<b>OPERATING VOLTAGE</b>	120 VAC, 50/60HZ		240 VAC, 50/60HZ		+24 VDC	
<b>ALARM OUTPUT</b>	Form C, dry relay contact closure, contacts rated 240 VAC 10A, protected by 8A circuit breaker.					
<b>ALARM TIME</b>	Adjustable by customer from 1 to 30 seconds. Custom alarm times available.					
<b>FAULT OPTION</b>	Fault reporting relay contact opening upon loss of power, source/detector failure or if beam is blocked for approximately 13 seconds.					
<b>FAULT OUTPUT</b>		X		X		X
<b>ELECTRONICS</b>	Sensors are NEMA 6P enclosure rated. Electronic printed circuits for years of reliable operation.					
<b>EFFECTS OF AMBIENT LIGHT</b>	Very high noise immunity.					
<b>MINIMUM RANGE</b>	6 feet (2 m).					
<b>MAXIMUM RANGE</b>	500 feet (152 m). Suggested maximum range 200 feet (61 m) to allow for bad weather and lens contamination.					
<b>ALIGNMENT</b>	Two LEDs and meter (GO-NOGO functions) provided for alignment. No special tools required.					



SPECIFICATIONS (CONT'D):

MODEL	SE-IR/3311 -H	SE-IR/3311 -F-H	SE-IR/3311 -230-H	SE-IR/3311 -F-230-H	SE-IR/3311 -24-H	SE-IR/3311 -F-24-H
<b>REACTION SPEED</b>	1 to 75 MPH (1 to 121 km/h) for a 2.5 inch (6.25 cm) diameter object 1 inch (2.5 cm) above the detection height. Custom speed/size available.					
<b>COUNTER</b>	Records the number of activations.					
<b>TEMPERATURE RANGE</b>	-40° to +135° F (-40° to +57° C).					
<b>ENVIRONMENTAL CONTROL</b>	Internal thermostat controls air flow which reduces moisture and maintains internal temperature during cold weather.					
<b>HOUSINGS</b>	External housing is heavy ALMAG casting and sheet aluminum (not less than 1/8 inch or .318 cm thickness) for rugged durability and extended life. Cabinet design minimizes effects of vandalism and provides rigid mounting. Meets NEMA 3R intent.					
<b>HEATERS / LENS</b>	Internal heaters in each eye cone to help reduce condensation and snow build up. Lenses to help contain internal heat and provide additional sensor protection.					
<b>CONNECTORS</b>	Source Cabinet: One 3/4" NPT hole accepts cord grip or conduit fitting. Detector Cabinet: One 3/4" NPT hole accepts cord grip or conduit fitting.					
<b>MOUNTING</b>	Pole-mountable using Model # PMB-500 bracket (available separately). Wall-mountable using Model # FSB-500 bracket (available separately). Pole-top mountable when using pole cap on Model # 3701 or 3702 poles. Optional Three-Axis Mount (Model # TGZ-M017) recommended in applications with cross slope or complex road profiles.					
<b>DIMENSIONS</b>	Source Cabinet: 15½ x 10 x 8¾ inches (39 x 25 x 22 cm). Detector Cabinet: 15½ x 10 x 8¾ inches (39 x 25 x 22 cm).					
<b>SHIPPING WEIGHT</b>	40 lbs (18 kg).					
<b>WARRANTY</b>	Standard 1-Year Full Warranty. Extended Warranty options available.					

ORDERING GUIDE – SOURCE AND DETECTOR:

MODEL #	DESCRIPTION
SE-IR/3311-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, 120VAC, HEATER/LENS OPTION
SE-IR/3311-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, 230VAC, HEATER/LENS OPTION
SE-IR/3311-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, 24VDC, HEATER/LENS OPTION
SE-IR/3311-F-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, W/FAULT, 120VAC, HEATER/LENS OPTION

ORDERING GUIDE – SOURCE AND DETECTOR (CON'T):

<b>MODEL #</b>	<b>DESCRIPTION</b>
SE-IR/3311-F-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, W/FAULT, 230VAC, HEATER/LENS OPTION
SE-IR/3311-F-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE AND DETECTOR, INFRARED, W/FAULT, 24VDC, HEATER/LENS OPTION

ORDERING GUIDE – SOURCE UNIT ONLY:

<b>MODEL #</b>	<b>DESCRIPTION</b>
SE-IR/3311S-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, 120VAC, HEATER/LENS OPTION
SE-IR/3311S-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, 230VAC, HEATER/LENS OPTION
SE-IR/3311S-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, 24VDC, HEATER/LENS OPTION
SE-IR/3311FS-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, W/FAULT, 120VAC, HEATER/LENS OPTION
SE-IR/3311FS-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, W/FAULT, 230VAC, HEATER/LENS OPTION
SE-IR/3311FS-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, SOURCE UNIT ONLY, INFRARED, W/FAULT, 24VDC, HEATER/LENS OPTION

ORDERING GUIDE – DETECTOR UNIT ONLY:

<b>MODEL #</b>	<b>DESCRIPTION</b>
SE-IR/3311D-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, 120VAC, HEATER/LENS OPTION
SE-IR/3311D-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, 230VAC, HEATER/LENS OPTION
SE-IR/3311D-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, 24VDC, HEATER/LENS OPTION

ORDERING GUIDE – DETECTOR UNIT ONLY (CON'T):

<b>MODEL #</b>	<b>DESCRIPTION</b>
SE-IR/3311FD-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, W/FAULT, 120VAC, HEATER/LENS OPTION
SE-IR/3311FD-230-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, W/FAULT, 230VAC, HEATER/LENS OPTION
SE-IR/3311FD-24-H	SINGLE-EYE SINGLE DIRECTION DETECTION SYSTEM, DETECTOR UNIT ONLY, INFRARED, W/FAULT, 24VDC, HEATER/LENS OPTION

OPTIONAL ACCESSORIES:

<b>MODEL #</b>	<b>DESCRIPTION</b>
PMB-500	POLE MOUNT BRACKET
TGZ-M017	THREE-AXIS MOUNT
FSB-500	FLAT SURFACE BRACKET
USC-1000	UNIVERSAL SYSTEM CONTROLLER (PROVIDES LOGGING AND REMOTE NOTIFICATIONS)
TG-CAM-1010	NETWORK CAMERA (PROVIDES SNAPSHOT IMAGES AND VIDEO RECORDINGS)

Additional accessories and warning devices are available from Trigg Industries LLC.  
Contact [sales@triggindustries.com](mailto:sales@triggindustries.com) for details.