

SPECIFICATIONS

MODEL # 3402-Z
Z-PATTERN™ INFRARED / INFRARED
OVER-HEIGHT VEHICLE DETECTION SYSTEM

Z-Pattern™



REMOTE



MASTER

SPECIFICATIONS:

MODEL	3402-Z	3402-Z-230	3402-Z-24
OPERATING VOLTAGE	120 VAC, 50/60HZ	240 VAC, 50/60HZ	+24 VDC
CURRENT - MASTER	0.700A	0.350A	1.450A
CURRENT - REMOTE	0.650A	0.325A	1.150A
ALARM OUTPUT	Two Form C, dry relay contact closures for Over-height Alarm Functions. Contacts rated 240 VAC 10A, protected by 8A circuit breakers.		
FAULT OUTPUT	One Form C, dry relay contact opening for Fault Reporting. Contacts rated 240 VAC 10A, protected by 8A circuit breakers.		
FAULT REPORTING	Factory configuration per customer selection of operational mode, loss of source/ detector/power or total failure.		
ALARM TIME	Adjustable by customer from 2 to 60 seconds.		
ELECTRONICS	Sensors are NEMA 6P enclosure rated.		
EFFECTS OF AMBIENT LIGHT	Use of Dual Beam IR/IR Z-Pattern™ provides automatic switch to Single Beam Detection Mode of Over height Protection if the sun or other interference saturates one detector.		
MAXIMUM RANGE	500 feet (152 m). Suggested maximum range 200 feet (61 m) to allow for bad weather and lens contamination.		

SPECIFICATIONS (CONT'D):

MODEL	3402-Z	3402-Z-230	3402-Z-24
DIRECTION SELECTION	Selection switch. No tools or adjustment required.		
ALIGNMENT	Four LEDs and meter (GO-NOGO functions) provided for ease of alignment and testing.		
ALIGNMENT HARDWARE	Two-Axis Mount (Model # TG-2AM) enables pitch and heading adjustment. Recommended for applications without cross slope or simple road profiles. Two required per system (sold separately). Three-Axis Mount (Model # TG-3AM) enables pitch, heading, and roll adjustment. Recommended for applications with cross slope or complex road profiles. Two required per system (sold separately).		
REACTION SPEED	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.		
TEMPERATURE RANGE	-40° to +158° F (-40° to +70° C).		
ENVIRONMENTAL CONTROL	Internal thermostat with heater and fan controls air flow which reduces moisture and maintains internal temperature during cold weather. Internal heaters in each eye cone to help reduce condensation, snow build up. Lenses to help contain internal heat and provide additional sensor protection.		
HOUSINGS	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. NEMA 3R Certified. Powder coated gray finish. Custom colors available at additional cost.		
CONNECTORS	Remote Cabinet: One 3/4" NPT hole accepts cord grip or conduit fitting. Master Cabinet: Two 3/4" NPT hole accepts cord grip or conduit fitting.		
MOUNTING HARDWARE	Pole Mount Bracket (Model # PMB-500) enables pole mounting. Two required per system (sold separately). Pole Mount Bracket (Model # PMB-407) enables pole mounting with enhanced vertical adjustment. Two required per system (sold separately). Wall Mount Bracket (Model # FSB-500) enables wall mounting. Two required per system (sold separately). Pole-top mountable when using pole cap on Model # 3701 or 3702 poles. Custom mounting hardware available.		
DIMENSIONS	Remote Cabinet: 12¾ x 16½ x 8½ inches (32 x 42 x 22 cm). Master Cabinet: 12¾ x 18¾ x 8½ inches (32 x 48 x 22 cm).		
SHIPPING DIMENSIONS	34 x 18 x 24 inches (87 x 46 x 61 cm). 65 lbs (30 kg).		
CERTIFICATIONS	CE Mark		
U.S. PATENT NO.	5,828,320		
WARRANTY	Standard 2-Year Full Warranty. Extended Warranty options available.		

PRODUCT VIEWS – MASTER AND REMOTE:



SIDE

PRODUCT VIEWS – MASTER:



FRONT



SIDE



BACK

PRODUCT VIEWS – REMOTE:



FRONT



SIDE



BACK

ORDERING GUIDE – MASTER AND REMOTE:

MODEL #	DESCRIPTION
3402-Z	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER AND REMOTE, INFRARED/INFRARED, 120VAC
3402-Z-230	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER AND REMOTE, INFRARED/INFRARED, 230VAC
3402-Z-24	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER AND REMOTE, INFRARED/INFRARED, 24VDC

ORDERING GUIDE – MASTER UNIT ONLY:

MODEL #	DESCRIPTION
3402-ZM	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER UNIT ONLY, INFRARED/INFRARED, 120VAC
3402-ZM-230	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER UNIT ONLY, INFRARED/INFRARED, 230VAC
3402-ZM-24	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, MASTER UNIT ONLY, INFRARED/INFRARED, 24VDC

ORDERING GUIDE – REMOTE UNIT ONLY:

MODEL #	DESCRIPTION
3402-ZR	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, REMOTE UNIT ONLY, INFRARED/INFRARED, 120VAC
3402-ZR-230	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, REMOTE UNIT ONLY, INFRARED/INFRARED, 230VAC
3402-ZR-24	Z-PATTERN DIRECTION DISCERNING DETECTION SYSTEM, REMOTE UNIT ONLY, INFRARED/INFRARED, 24VDC

OPTIONAL ACCESSORIES:

MODEL #	DESCRIPTION
TG-2AM	TWO-AXIS MOUNT
TG-3AM	THREE-AXIS MOUNT
PMB-500	POLE MOUNT BRACKET
PMB-407	POLE MOUNT BRACKET W/VERTICAL ADJUSTMENT
FSB-500	FLAT SURFACE BRACKET
USC-1000	UNIVERSAL SYSTEM CONTROLLER (PROVIDES LOGGING AND REMOTE NOTIFICATIONS)
TG-CAM-1011	NETWORK CAMERA (PROVIDES SNAPSHOT IMAGES AND VIDEO RECORDINGS)

Additional accessories and warning devices are available from Trigg Industries LLC. Contact sales@triggindustries.com for details.