



iGAZER45P

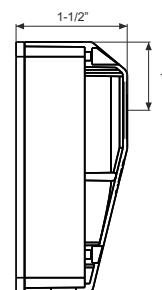
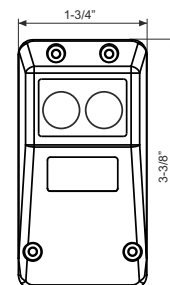
Polarized Photo Eyes



INSTALLATION MANUAL

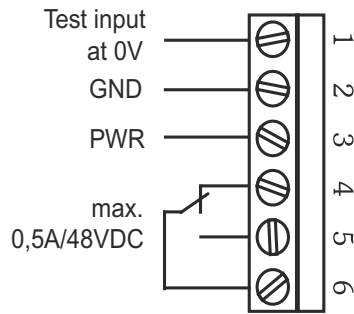
FEATURES:

- Range 45-50 feet
- Immune to external light sources
- High degree of protection
- Optional cable entry
- Terminal compartment
- Polarisation filter optical system
- Test input
- Operating voltage 10-40VDC or 24VAC $\pm 25\%$
- Protected against power supply polarity reversal
- Relay output
- Easy adjustment of the optical sensor
- Dirt indicator
- LED alignment indication



TECHNICAL DATA

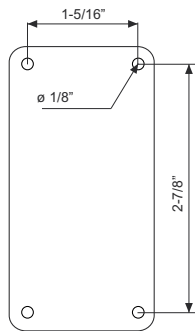
Operating voltage	10...40VDC 24VAC, $\pm 25\%$	Ranges	45-50 feet
Operational	<100ms after power on	Indications	dual LED red/green
Current consumption	max. 30mA/24V	Light beam interrupted = lights up red	
Type of light	red, 680nm pulsed, polarised	Light beam uninterrupted, spare critical function capacity. = flashes red at 4Hz	
Aperture angle	approx. 1.5° total angle	Light beam uninterrupted, high spare function capacity. = lights up green	
Output	relay, changeover contact	Additional function	test input (when 0V at terminal 1 the transmitter switches off)
Switch rating	min. 1mA/min. 5VDC max. 0.6A/50V AC max. 0.5A/48VDC (resistive load)	Type of connection	screw terminal max. 1.5mm ²
Response time	<10ms, detection of light beam interruption	Casing material	lower part: ABS-GF15% upper part: PMMA, red
Relay delay	when the light beam is uninterrupted again, the relay picks up with 100ms delay	Degree of protection	IP67, to EN60529
Type of switching	responsive to brightness, i.e. the relay picks up when the light beam is uninterrupted	Operating temp.	-13°...140°F
		Storage temp.	-31°...176°F
		Weight	approx. 2 oz
		Size	3-3/8 x 1-3/4 x 1-1/2 in ³ (LxWxH)



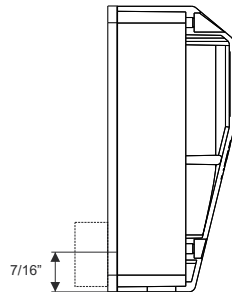
TERMINAL ASSIGNMENTS

NOTE: For test purposes the photo-electric switch switches the transmitter off when GND is applied to terminal 1. For reasons of safety the photo-electric switch is responsive to brightness, so that the relay picks up when the light beam is uninterrupted.

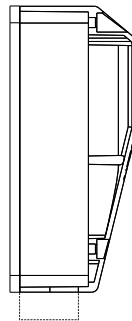
SIZE



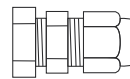
Hole spacing



optional cable entry

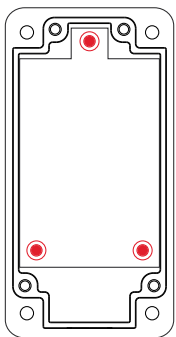


Rubber grommet
or
Cable gland
M12x1,5



NOTE: The cable entry is moulded into the lower part of the casing and can be broken out. Either the rubber grommet or the cable gland (both supplied) can be used.

FINE ADJUSTMENT

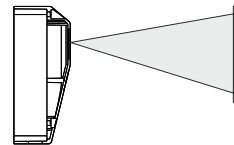


After mounting the photo-switch the light beam can be adjusted using 3 screws.

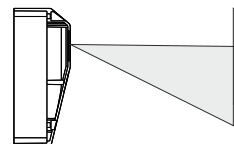


IMPORTANT NOTE!

The optical sensor is spring-mounted. All 3 screws are unscrewed by 1 turn factory-made, the maximum is 3 turns. The optical sensor is optimally aligned when the green LED lights up constantly.



LED lights up:
100 % of the cone of light is
hitting the reflector



LED flashing:
Less than 100 % of the cone
of light is hitting the reflector

ACCESSORIES



RAIN COVER FOR THE REFLECTOR.

protection against rain, hail and snow,
impact resistant, UV-stable
material: PA6 GF15



RAIN COVER FOR THE PHOTO-EYE

protection against rain, hail and snow,
impact resistant, UV -stable
material: PA6 GF15

WARRANTY

The warranty period of this product is 24 months, beginning from the manufacturing date. During this period, if the product does not operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of Transmitter Solutions. This warranty does not extend to the product casing which can be damaged by conditions outside of the control of Transmitter Solutions.