

# **UL-2016 Photoelectric Beam Sensor**(Retro-Reflective & "POLARIZED" also Twin Finish Housing Type)



#### Features:

- · "Polarized Sensor" totally safety sensor
- · Retro-reflective type
- · Red infrared led element
- · IP-55 waterproof/cable gland
- · PC casing, antifog/dew/rains
- · Round shape reflector-Dia.: 82.1mm
- · Input Volt.: 12-30VDC/AC 60 Hz (Non Polarity)
- · Twin colorsled indicator for beam alignment
- · Tamper switches included

## Application:

- · Gateopener
- · Overhead door
- · Swing gate
- · Sliding door
- · Window
- Terrace
- · Warehouse
- · Parking lot
- · Automation control



## Specifications:

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Input Volt.	12-30V DC/AC 60 Hz (Non Polarity)
Current consumption	100 mA
Tx LED Element	Infrared LED/Wave length 740 nm
Beam Spreading angle	1.5° (half angle)
Contact Capacity	30VDC/AC, 0.5A
Response Time	10 msec
Delay Time of Relay	100 msec
Sensing Range	10 meters
LED Indicators	Red LED Off: Beam aligned / Red LED On: Beam broken Red LED flash: Beam alignment signal weak (Re-align) Green LED on: Beam aligned proper
Additional Function	Tamper switches
Wiring Connection	Terminal block / Cable gland (IP-55)
IP	IP-55
Environment/Storage Temp.	-25°C ~60 °C / -35°C ~80 °C
Dimension	122 (L) × 61 (W) × 62 (D) mm
Cable wires	2517 / 24AWG / 5~7 cores
Approvals	UL-2016 & CE

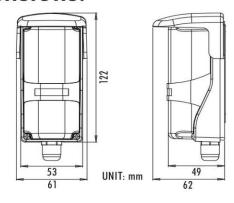
#### Note:

#### **MONITOR functions of UL325**

Depending on the monitoring system used by the gate motor, it may be necessary to use either the N.C. output or connect the included  $10 K\Omega$  resistor to the N.O. or N.C. output.

Please refer to the gate operator manual or the gate operator manufacturer for the preferred monitoring method.

### Dimensions:



# Cable gland:





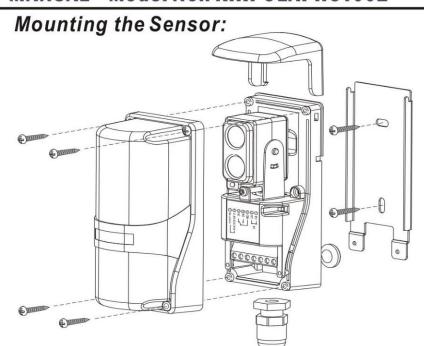




it Body Tight Ring Kno

Thread			Thread Length C2(mm)	Spanner Size A&F(mm)
M12x1.5	3-6.5	12	9	18/15

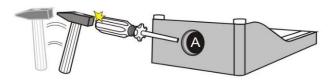




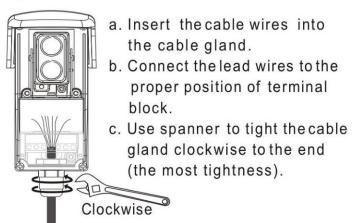
- Unscrew the 4 screws and remove the cover.
- 2. Loosen the captive screw to free the sensor from the mounting plate.
- 3. Using the included screws, mount the mounting plate to the wall.
- 4. Use the breakout and cable gland at the bottom of the sensor to run the wires.
- 5. Remove the terminal block using longnose pliers and wire the unit according to the wiring diagram above.
- Hang the sensor back on to the plate, and use the captive screw to secure it in place.
- 7. Re-attach the cover, and use the Included small screws to secure it.
- 8. Attach the hood to the top of the sensor.

# Wiring connection:

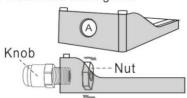
1 Break down & remove plastic pack 🚯



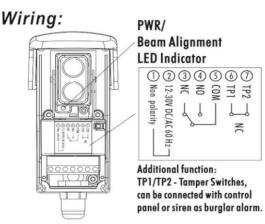
- 1. Please use screwdriver & hammer to break A plastic pack down and remove pack A. Then insert the cable gland into the A empty hole. (See diagram 2)
- 3 Finish the wiring connection:



(2) Install the cable gland



Then screwthe knob with the nut till them fixed.



TERMINAL	DESCRIPTION	HAMAL	MERAK UL	ZARA	THAILA UL	RIGEL-6 UL
1	12 - 250 V AC/DC	50	50	50	50	50
2	12 - 250 V AC/DC	51	52	52	52	52
3	Relay, Normally Closed	72	72	72	72	72
4	Relay, Normally Open		73	73	73	73
5	Relay, Common	70	70	70	70	70
6	Tamper Switch, N.C.					
7	Tamper Switch, Common					