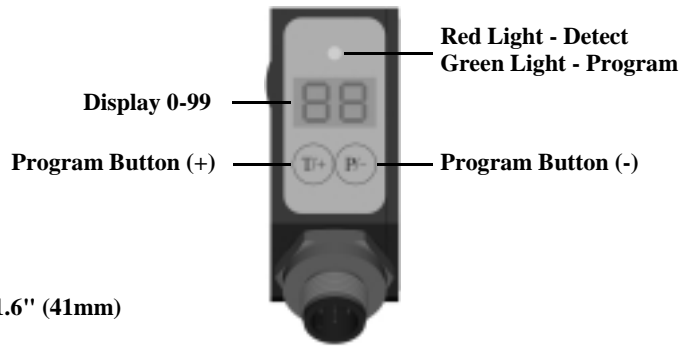


UV22 - ULTRAVIOLET DETECTION PART # 10130001



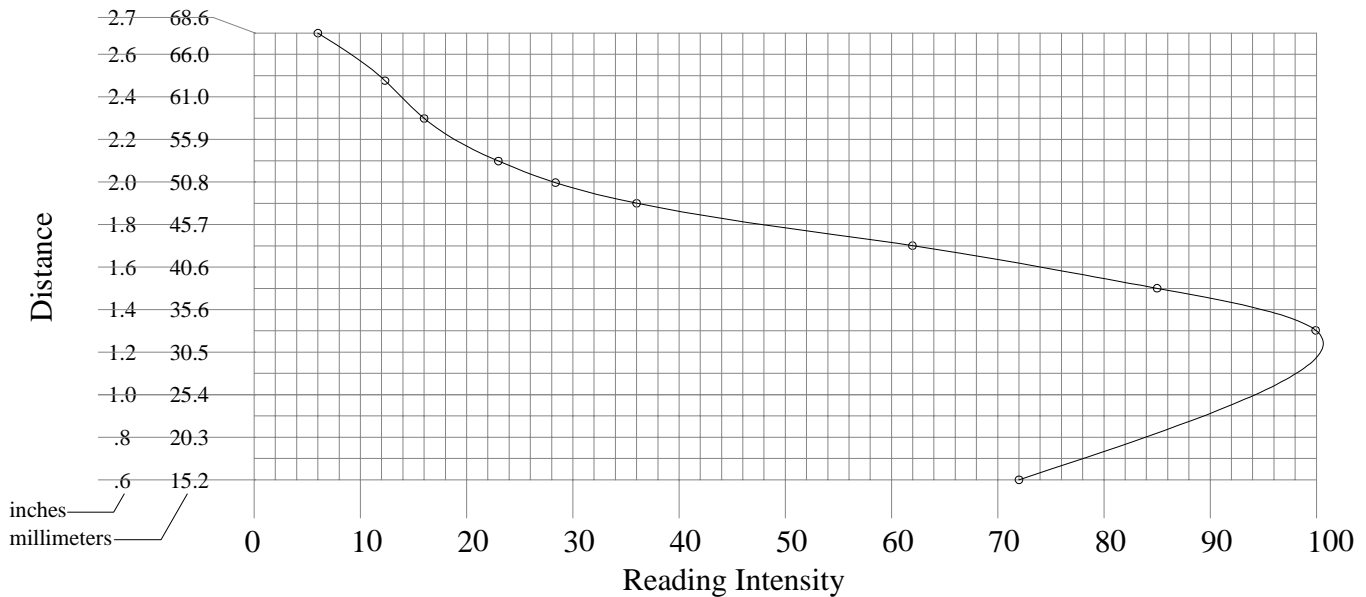
Recommended Distance: 1.6" (41mm)
 Light Spot: Ø.12" (Ø3mm) ●



Red Light - Detect
 Green Light - Program
 Display 0-99
 Program Button (+)
 Program Button (-)

The UV22 luminescent detection sensor is used to detect the presence and volume of glue by detecting the ultraviolet added to the adhesive. The UV22 can be adapted to perform in different situations by changing a few settings. The programmed adjustments are gain, threshold, hysteresis, light intensity, output and pulse extender time. The physical adjustments are lens size and focal distance. The lens size, focal distance, gain and light intensity are used to get the reading in a usable range. The threshold may need to be changed if a reading of 30 to 50 is not possible. The hysteresis, output and pulse extender should only be changed after consulting Leary Technical Support.

Reading Intensity of .04" (10mm) Wide Glue Bead With Gain at R1



Light Spot Size at Varied Distances

Distance In Inches											Distance In Millimeters										
.6	.9	1.2	1.5	1.7	1.9	2.1	2.3	2.5	2.7		15	23	31	38	43	48	53	58	64	69	
○	○	○	○	●	○	○	○	○	○	○	○	○	○	○	●	○	○	○	○	○	○
.24	.15	.06	.08	.12	.15	.18	.22	.25	.28		6	4	1.5	2	3	4	4.5	5.5	6	7	
Light Spot Size In Inches											Light Spot Size In Millimeters										

UV22 - ULTRAVIOLET DETECTION, cont'd PART # 10130001

Sensor Set-Up

1. Mount the UV22, start with the lens 1.6" (41mm) from the product. The light spot is approximately Ø.12" (Ø3mm) at this distance.
2. Place the glue with the desired volume in the center of the light spot. The glue may be stationary or moving. The UV22 will display peak values every .3 seconds.
3. Set the gain and/or focal distance to have a displayed reading on the glue of 30 to 50 counts with 40 being ideal.

To Change the Gain

1. Press the "T+" or "P-" buttons. This will display the gain setting (R1 thru R5).
2. Press the "T+" to **increase** the gain and "P-" to **decrease** the gain.
3. After 2 seconds of releasing the "T+/P-" button, the actual reading display will reappear.
4. If reading is still not within 30-50, repeat steps 1-3.
5. Check to make sure the product without glue reads less than 15.

Note: The focal distance may also be adjusted to increase or decrease readings. The smaller the light spot the higher the reading.

Note: For readings higher than 50 at the desired focal distance:

1. Set the gain to R1, minimum gain.
2. Decrease light intensity, refer to Program Mode.
3. If still too high, increase Threshold (normally set to 20) to 10 counts above reading. Refer to the Program Mode.

Note: For readings lower than 30:

1. Set the gain to R5, maximum gain.
2. Adjust focal distance to highest reading.
3. If still too low, decrease Threshold (normally set to 20) to 5 counts below reading.

If further adjustments or programming is needed refer to the instructions below.

Sensor Modes

Display Mode	2 digits displayed for normal operating mode	Red Light - detecting	Light Off - non detecting
Gain Mode	Display will show gain (R1-R5)	Red Light - detecting	Light Off - non detecting
Program Mode	Display will show letters and numbers	Red Light - detecting	Light Off - non detecting

Display Mode

1. This is the normal operating mode. The display range is 0-99 for normal operation.
2. When powering up the sensor the display and all lights will turn on.

Gain Mode

1. The ranges available are as shown to the right.
2. Press the "T+" button until the desired gain is displayed.
3. The red light will be on for detecting range and off for non detecting range.

Program Mode

1. To enter the Program Mode, press and hold the "P-" button until R(1-5) displays a value (01-99). A green light comes on. This is the current Threshold value.
2. Press the "T+" button to change a value of a program function.
3. Press the "P-" button to scroll through the program functions. (The green light will turn off in other program functions.)
4. To exit the Program Mode, press and hold the "P-" button for 3 seconds.

The recommended Program Function values are as follows:

Program Functions	Display	Recommended Value	Note
Threshold	01 - 99	20	The output is on when the display reads ≥ this value.
Light Intensity	U1 - U3	U3 (highest)	Intensity of the light spot. (Need to change Null whenever you change intensity.)
Hysteresis	H0 - H9	H2	The output will turn off when the display reads ≤ the threshold minus the hysteresis.
Output	no or nc	no (normally open)	For normally open the output is on when the display reads ≥ the threshold.
Pulse Extended	P0 - P9	P0	Time delay-holds the output on.
Null	nu	--	Press and hold "T+" until a value appears and the display blinks twice. (This resets the sensor to read '0' with nothing in front of it.)