

PULSE MODULATED PHOTOELECTRIC REGISTRATION MARK SENSOR

Color Mark registration detection on transparent and translucent, including many metalized films and paper Single, one pushbutton set-up Includes remote Autoset[™] and Selectable Pulse Stretcher

The *Mark*•*Eye*[™] is a registration mark sensor designed to see printed registration marks on most packaging materials on a continuous web. The "one-touch" set-up enables the sensor to be adjusted with a single push of a button. There is no more guess work, making the operator's adjustment procedure easy!

The *Mark*•*Eye*[™] utilizes a white LED light source that is optimized to detect printed registration marks on translucent, transparent, and many metalized films and paper. This sensor is particularly useful on form, fill, and seal machines. Note that most packaging materials (except foil) are translucent! Many of the translucent packaging materials that we have tested allow light to penetrate either the backing material or the registration mark. Because this sensor operates in the opacity sensing mode, the color of the registration mark simply doesn't matter! Note: Marks as small as 1/16" wide by 1/4" long can be detected, dependent upon web opacity (contrast) and velocity.

The *Mark*•*Eye*TM operates on 10 to 30 VDC and is pulse modulated to prevent any problems with ambient light. Its design incorporates a white LED light source directing a beam of light across the gap to the receiving lens of a photoelectric detector. In operation, the moving web of packaging material passes through the gap/slot. This sensor can detect registration marks in a wide variety of applications, as long as the size of the mark and velocity meets the capability of the sensor. When the intensity of the light beam transmitted through the web of material is altered by the presence of printed registration mark, the *Mark*•*Eye*TM will switch its output accordingly.

Note: For "Metalized" film that does not produce the desired response, we recommend sensing with a reflective mode sensor, such as the **CMS Series** or the *"NEW"* **MARKEYE**•**PRO**[™].

Set Up: The *Mark*•*Eye*[™] is an automatic sensor...it is not a conventional "teach mode" sensor. As a result, all that is required to adjust the sensor is to place the web between the marks and push the appropriate Autoset[™] button one

time. The sensor will automatically adjust itself to a perfect setting. The *Mark•Eye*[™] will now sense the difference or contrast between the light level penetrating through the web, giving an output when the mark is in view. Provision for a remote Autoset[™] switch is also provided.



Mark Samples

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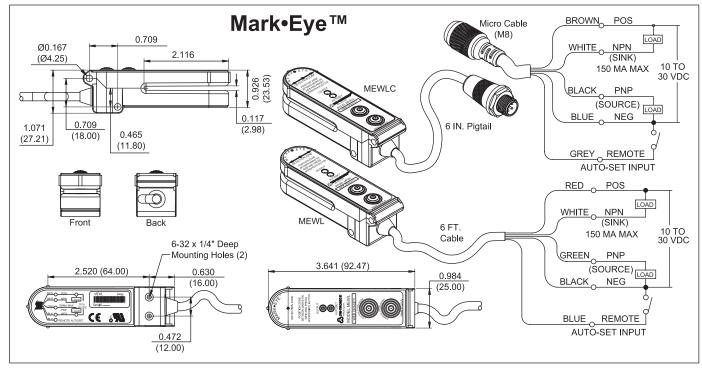
SPECIFICATIONS

DIMENSI



HYSTERESIS • Minimal hysteresis promotes detection of low contrast registration marks LIGHT IMMUNITY • Responds to sensor's pulsed modulated light source					
			 immune to most ambient light INDICATORS Green Autoset™LED flashes when Autoset™ routine is activated and stays illuminated when Autoset™ is completed Red Output LED illuminates when sensor's output 		
AMBIENT TEMPERATURE • -40°C to 70°C (-40°F to 158°F)					
 RUGGED CONSTRUCTION Chemical resistance to harsh cleaners, such as determined algobals, and kateness 					
 detergents, alcohols, and ketones Waterproof ratings: NEMA 4 and IP66 Conforms to heavy industry grade CE and UL requirements 					
• Provides a minimum of 10 milliseconds output duration					
𝒫𝔅 𝒫° (€ Product subject to change without notice.					
Cable Selection Guide (5 Wire)					

	Sensor Selection Guide		Cable Sele	ction Guide (5 Wire)
	Model	Description	Model	Micro Cable (M12) Description
	MEWL	White LED, 5-conductor cable	GSEC-2MU	6.5 ft. (2.0m) Low Cost, Unshielded
	MEWLC	White LED, 5-pin micro	GSEC-5MU	16 ft. (5.0m) Low Cost, Unshielded
		connector on a 6" pig tail	GSEC-6	6 ft. (1.8m) Shielded Cable
			GSEC-15	15 ft. (4.6m) Shielded Cable
ONS			GPSEC-15	15 ft. (4.6m) Shielded Cable





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