R58 Registration Mark Sensors

Provide High-Speed, Low-Contrast Sensitivity

Detect small color marks and differentiate low-contrast colors

Fast and reliable detection of registration marks in variety of industries



High-Speed Detection in Printing and Labeling



Splice Detection



Range and application tolerant

- Tolerates a +/-3 mm shift from the 10 mm focal point
- Accommodates web flutter and similar variations in the target's location



Convenient and flexible mounting

- Includes two lens locations on each sensor
- Offers threaded lens and cap for easy exchange without tools
- Available with a vertical or horizontal light spot, depending on model
- Includes industry standard mounting holes

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more sensors, more solutions

Two Sensors Detect all Registration Marks on Hard-To-Read Surfaces.

R58 Registration Mark Sensors detect subtle registration marks in common printing and material registration applications often found in the printing, packaging and pharmaceutical industries. The excellent contrast sensitivity of the R58, coupled with its small 1.2 x 3.8 mm sensing image, makes it easy to detect critical features even on difficult-to-sense material.

- Outstanding color contrast sensitivity; detecting contrasts as low as 2% over a wide range of colors
- Excellent performance in low-contrast or highgloss applications
- Ultra-fast 10 kHz switching frequency (10,000 actuations per second); 15 µs repeatability
- Rugged, mechanical housing to withstand ambient electrical noise and vibration; rated IP67

- High-quality acrylic lens suitable for food processing applications
- Choice of high-performance, *Expert*[™] push-button models or easy-to-apply and cost-effective potentiometer setup models
- · Fast warm-up and excellent temperature stability
- Bright, highly visible LEDs for easy configuration and monitoring during operation
- Bipolar NPN/PNP with selectable light/dark operate (LO/DO)

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R58 Registration Mark Sensors

R58 Expert[™] Sensors

Optimum Performance		R58 <i>Expert</i> ™	R58 <i>Expert</i> ™ Models, 10 to 30V dc					
12, 12, 13,	Three LED sensing colors in one sensor	Sensing Mode/LED*	Models**	Sensing Image Orientation	Focus	Output Type	OFF-Delay	
	 Senses a variety of color marks without changing sensors Automatically selects the correct LED to optimize contrast for each application 		R58ECRGB1	Parallel to sensor length	- 10 mm	Bipolar NPN/PNP	0 to 30 ms selectable	
		CONVERGENT	R58ECRGB2	Perpendicular to sensor length				
Advanced configuration and • Easy-to-set TEACH options Dynamic or Static using pu buttons, or remote switch • Easy selection of Light/Dar Operate (LO/DO) • 8-segment bargraph display for TEACH and signal strend • 10 kHz switching frequency • 15 µs repeatability	Sh ON-Delay LED Work OFF-Delay LED Dark Operate LED Dark Operate Light Operate Dark Darket Delay LED Light Operate Dark Operate Light Operate Darket	** Only standa number (ex QD models For a 5-pin	rd 2 m cable models ample, R58ECRGB1 : A model with a QD integral Euro-style C	e LED, depending on cc are listed. For a 9 m c: W/30). requires a mating cord: D, add suffix Q8 (exam VC pigtail QD, add suf	able, add suffi set. iple, R58ECR(ix W/30 to the 2 G B1Q8).		

Output

Setup

Indicator

Indicators

10/00

Switch

Selection

R58A Sensors

Cost-Effective and Simple to Use

Switching

Threshold

Potentiometer

- Single emitter color; red or green, depending on model
- Simplified setup with potentiometer adjustment of switching threshold and switch selectable Light/Dark Operate (LO/DO)
- Easy-to-see output and setup indicators
- 10 kHz switching frequency
- 15 µs repeatability

Quick-Disconnect (QD) Cables

_	Style	Model [†]	Length
	4-pin Euro-style, straight	MQDC-406 MQDC-415 MQDC-430	2 m 5 m 9 m
	5-pin Euro-style with shield, straight	MQDEC2-506 MQDEC2-515 MQDEC2-530	2 m 5 m 9 m

[†]For a right-angle cordset, add suffix **RA** to model number (example, **MQDC-406RA**).

Mounting Brackets



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R58A Models, 10 to 30V dc Output OFF-Sensing Sensing Image Emitter Models** Focus Mode/LED* Orientation Color Delay Туре R58ACG1 0 Green R58ACG1D 20 ms Parallel to sensor length 0 R58ACR1 Red R58ACR1D Bipolar 20 ms NPN/ 10 mm R58ACG2 0 PNP Green Perpendicular R58ACG2D 20 ms to sensor 0 R58ACR2 length Red R58ACR2D 20 ms

* \mapsto Visible Red \Rightarrow Visible Green

Only standard 2 m cable models are listed. For a 9 m cable, add suffix **W/30** to the 2 m model number (example, **R58ACG1 W/30**).

QD models: A model with a QD requires a mating cordset.

For a 4-pin integral Euro-style QD, add suffix Q8 (example, R58ACG1Q8).

For a 4-pin 150 mm Euro-style PVC pigtail QD, add suffix Q (example, R58ACG1Q).

Dimensions





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