R58 Registration Mark Sensors
Provide High-Speed, Low-Contrast Sensitivity

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 high-gloss 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)

Detect small color marks and differentiate low-contrast colors

Fast and reliable detection of registration marks in variety of industries

- 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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www.bannerengineering.com
1.888.373.6767

more sensors, more solutions
R58 Registration Mark Sensors

### R58 Expert™ Sensors

**Optimum Performance**

<table>
<thead>
<tr>
<th>Sensing Mode/LED*</th>
<th>Models**</th>
<th>Sensing Image Orientation</th>
<th>Focus</th>
<th>Output Type</th>
<th>OFF-Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>R58ECRGB1</td>
<td>Parallel to sensor length</td>
<td>10 mm</td>
<td>Bipolar NPN/PNP</td>
<td>0 to 30 ms selectable</td>
<td></td>
</tr>
<tr>
<td>R58ECRGB2</td>
<td>Perpendicular to sensor length</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Visible Red, Green or Blue LED, depending on contrast of registration mark

**Only standard 2 m cable models are listed. For a 9 m cable, add suffix W/30 to the 2 m model number (example, R58ECRGB1 W/30).

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

For a 5-pin integral Euro-style QD, add suffix Q8 (example, R58ECRGB1 Q8).
For a 5-pin 150 mm Euro-style PVC pigtail QD, add suffix Q (example, R58ECRGB1 Q).

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### R58A Sensors

**Cost-Effective and Simple to Use**

<table>
<thead>
<tr>
<th>Sensing Mode/LED*</th>
<th>Models**</th>
<th>Emitter Color</th>
<th>Focus</th>
<th>Output Type</th>
<th>OFF-Delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>R58ACG1</td>
<td>Parallel to sensor length</td>
<td>Green</td>
<td>10 mm</td>
<td>Bipolar NPN/PNP</td>
<td>0</td>
</tr>
<tr>
<td>R58ACG2</td>
<td>Perpendicular to sensor length</td>
<td>Green</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R58ACR1</td>
<td>Red</td>
<td>0</td>
<td>20 ms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R58ACR2</td>
<td>Red</td>
<td>0</td>
<td>20 ms</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Visible Red

**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, R58ACG1 Q8).
For a 4-pin 150 mm Euro-style PVC pigtail QD, add suffix Q (example, R58ACG1 Q).

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### Quick-Disconnect (QD) Cables

**Style**

<table>
<thead>
<tr>
<th>Style</th>
<th>Model†</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-pin Euro-style, straight</td>
<td>MQDC-406</td>
<td>2 m</td>
</tr>
<tr>
<td>4-pin Euro-style, straight</td>
<td>MQDC-415</td>
<td>5 m</td>
</tr>
<tr>
<td>4-pin Euro-style, straight</td>
<td>MQDC-430</td>
<td>9 m</td>
</tr>
<tr>
<td>5-pin Euro-style, straight</td>
<td>MQDEC2-506</td>
<td>2 m</td>
</tr>
<tr>
<td>5-pin Euro-style, straight</td>
<td>MQDEC2-515</td>
<td>5 m</td>
</tr>
<tr>
<td>5-pin Euro-style, straight</td>
<td>MQDEC2-530</td>
<td>9 m</td>
</tr>
</tbody>
</table>

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

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### Mounting Brackets

- **SMB55A**: Long 15° offset stainless-steel bracket
- **SMB55F**: Flat-mount stainless-steel bracket
- **SMB55RA**: Right-angle stainless-steel bracket
- **SMB55S**: Short 15° offset stainless-steel bracket

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