

PRODUCT PROFILE

Gate Entry Sensing Solutions

Rockwell Automation is committed to offering complete solutions that help make you more successful. Part of that commitment involves the constant assessment of customer needs, and one of the most common sensing applications customers have stressed involves complete sensing solutions for gate entry applications. Photoelectric sensors are commonly used to detect the presence of a vehicle passing through an entry gate. While a pressure pad placed ahead of the entry triggers the gate to open, the photoelectric sensor ensures that the gate does not close on the passing vehicle. In response, Rockwell Automation has introduced bundled Allen-Bradley photoelectric sensing solutions that simplify your gate entry sensing applications.

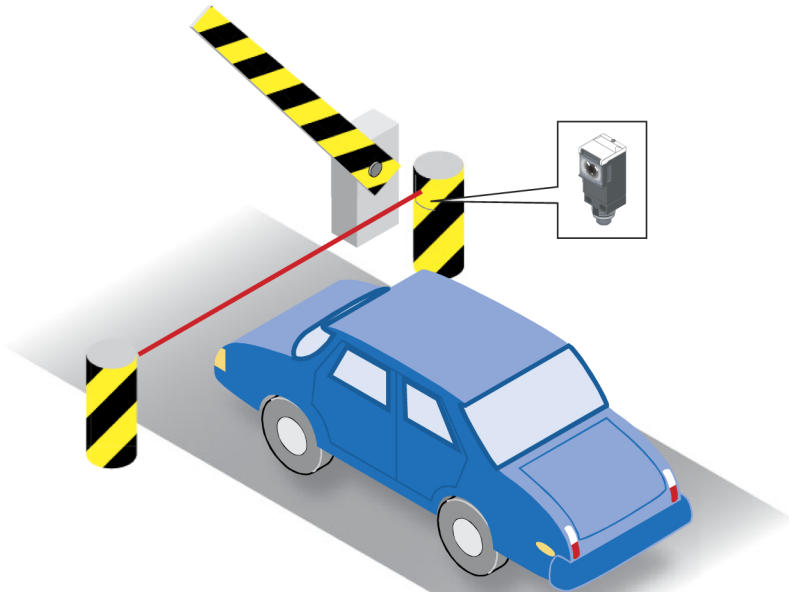
A Complete Sensing Solution Built Around the Proven Series 9000

The Series 9000 photoelectric sensors are ideal solutions for harsh industrial environments. Their rugged design permits installation into environments with water and dirt contamination. Even the top cover which provides access to sensor adjustments is sealed when properly closed. These features have made the Series 9000 the benchmark sensor for gate entry applications and based on this fact, it is the natural choice as the center of a gate entry sensing bundled solution.

The Allen-Bradley Series 9000 bundled solution is available in two sense modes – those most commonly used in gate entry applications. These include the short range (<30ft) retroreflective along with the longer range (<200ft) transmitted beam styles. Both operate on 70...240VAC/DC and provide an SPDT EM-relay output to the gate controller when the sensing beam is broken by a passing vehicle. For low voltage installations, 24VAC/DC versions are also available with the same EM-relay output configuration.

UL-325 rated Series 9000 sensors are also available as part of the solution. These models conform to all requirements for sensing devices under the new standards, adding both a heavy duty outdoor rated cable and impact-resistant housing to their design.

Bundled Photoelectric Sensing Solutions That Simplify Your Gate Entry Sensing Applications



Gate entry application using photoelectric sensors for vehicle detection.

Each of these Series 9000 photoelectric sensors is now orderable in a bundle with the ideal mounting hardware and reflector (for retroreflective sensing modes) included under a single part number, saving you time and money when ordering and installing gate entry sensing solutions.

Advantages

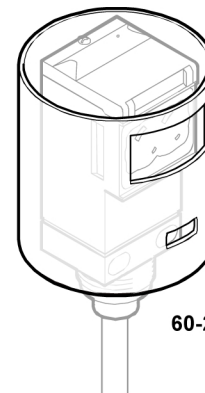
- Non-contact detection of a passing vehicle
- Both short range retroreflective (<30ft) and long range (<200ft) transmitted beam sense modes
- High voltage 120VAC/DC and low voltage 24VAC/DC versions
- Both general purpose (UL 508) and gate entry (UL 325) rated versions
- 6ft of leaded cable for flexible cable routing
- Three LED status indicators (power, output, margin)
- Sensitivity adjustment for application flexibility
- -34° ... +70° C (-29° ... +158° F) temperature ratings
- NEMA 3, 4X, 6P, 12, 13 (IP67) environmental ratings

Ordering Information for Photoelectric Sensor Bundled Solutions

	Item	Description	Consists of...	Catalog Number
	Photoelectric Sensor Kit	General purpose UL 508 rated, retroreflective sense mode, 24VAC/DC	42GRU-9001 60-2421 bracket 92-39 reflector	60-GR1-24
	Photoelectric Sensor Kit	General purpose UL 508 rated, retroreflective sense mode, 120VAC	42GRU-9002 60-2421 bracket 92-39 reflector	60-GR1-120
	Photoelectric Sensor Kit	General purpose UL 325 rated, retroreflective sense mode, 24VAC/DC	60-2728 60-2421 bracket 92-39 reflector 60-2725 impact bracket	60-GR1-24UL325
	Photoelectric Sensor Kit	General purpose UL 325 rated, retroreflective sense mode, 120VAC	60-2730 60-2421 bracket 92-39 reflector 60-2725 impact bracket	60-GR1-120UL325
	Photoelectric Sensor Kit	General purpose UL 508 rated, transmitted beam sense mode, 24VAC/DC	42GRL-9000 42GRR-9001 60-2421 bracket (2 pcs)	60-GRR1-24
	Photoelectric Sensor Kit	General purpose UL 508 rated, transmitted beam sense mode, 120VAC	42GRL-9000 42GRR-9002 60-2421 bracket (2 pcs)	60-GRR1-120

Additional Accessories (ordered separately)

Item	Description	Catalog
Spare Impact	Impact bracket for Series 9000 photoelectric sensor	60-2725
Spare Mounting	Mounting bracket for Series photoelectric sensor	60-2421
Spare Reflector	Reflector, 3" diameter with mounting hole	92-39



60-2725 Impact Bracket

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