WE OPEN DOORS AND GATES

PHOTOELECTRIC SENSORS FOR EVERY INSTALLATION SITUATION

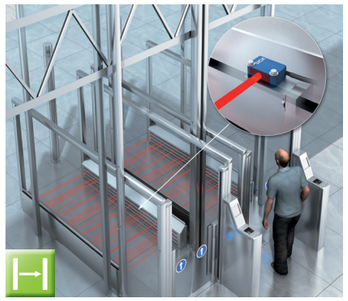
SICK
Sensor Intelligence.

Sensors for access and vehicle access control

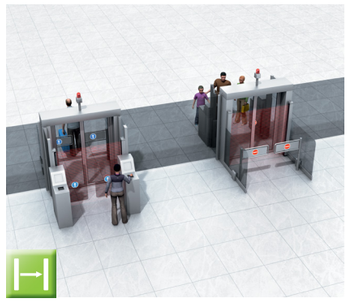
Is it necessary for a gate to stop moving as soon as an individual enters the gate area? Should an access control system only allow access to a particular area to one person at a time? Should a barrier open automatically as soon as a vehicle approaches?

These are the sort of questions that SICK poses when it comes to door, gate, barrier and lock automation. With a comprehensive range of photoelectric sensors and an extremely wide spectrum of applications, the sensor manufacturer provides the answer to such questions in building management. Small, compact, cylindrical photoelectric sensors and light grids are designed for monitoring automatic doors, gates and windows, the monitoring of access barriers, the opening of swing doors or the separation of individual persons in passenger locks. Single-beam photoelectric safety switches are ideal for ensuring personal safety around moving barriers, and SICK's portfolio is rounded off by a range of inductive and magnetic sensors, and laser scanners.

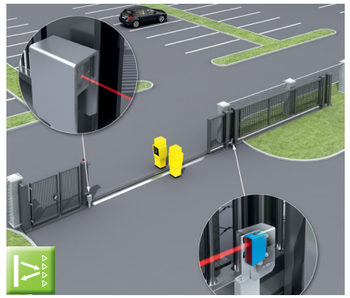
Applications and detection principles



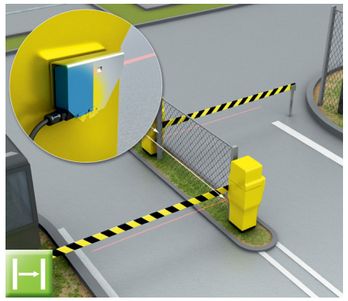
Isolating in border control systems (G6)



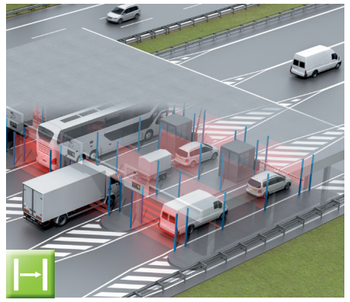
Building automation (MLG-2)



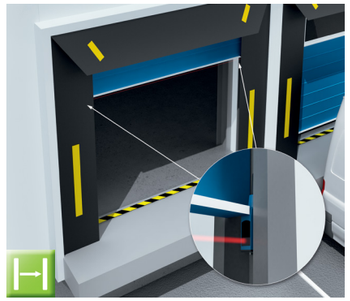
Monitoring of sliding gates (G10)



Monitoring of access barriers (W24-2, W34)



Vehicle classification and separation (MLG-2)



Monitoring of the closing edges of loading gates (G18)

Photoelectric retro-reflective sensor

Through beam photoelectric sensor
Advanced automation light grids (MLG-2)

Product overview

	Small photoelectric sensors
	G10 • Compact design • Long sensing ranges and operating reserves • AC/DC variants with relay output • Test input for function monitoring
Sensor and detection principle	Photoelectric retro-reflective sensor; Through beam photoelectric sensor
Enclosure rating	IP 67
Scanning/ sensing range max.	0.08 m ... 15 m** (retro reflective) 0 m ... 40 m (through beam)
Test input	✔ (only available in certain models)
Switching output	Relay, PNP and NPN Light and/or Dark Switching
Type of light	Visible red light Infrared light
Supply voltage	10 V DC ... 30 V DC 24 V AC/DC ... 240 V AC/DC
Accessories*	Sensor weather protection housing, reflector weather protection housing, reflector and mounting bracket Sensor and weather hoods are available as a package

	Miniature photoelectric sensors	Compact photoelectric sensors	
	G6	**W24-2**	**W34**
	• Miniature type • Long sensing ranges and operating reserves	• Compact design • Long range proximity application (with background suppression) • Rugged metal housing	• Compact design • Long range proximity application (with background suppression) • Plastic housing
Sensor and detection principle	Photoelectric retro-reflective sensor	Through beam photoelectric sensor	
Enclosure rating	IP 67	IP 69K	IP 67
Scanning/ sensing range max.	0.03 m ... 6 m** (retro-reflective) 0 m ... 15 m (through beam)	0 m ... 22 m** (retro-reflective) 0 m ... 60 m (through beam)	
Test input	✔ (only available in certain models)	–	
Switching output	PNP/NPN	Relay, electrically isolated PNP, NPN, and Relay	
Switching mode	Light/dark switching		
Type of light	Visible red light Infrared light		
Supply voltage	10 V DC ... 30 V DC	12 V DC ... 240 V DC, 24 V AC ... 240 V AC 10 V DC ... 30 V DC	
Accessories*	Mounting bracket Reflector	Mounting bracket Reflector Weather protection housing	

* The accessories listed are not included with the delivery. SICK can provide additional accessories, such as connecting cables in various versions and lengths, as well as complete terminal compartments.
** Reflector PL80A
*** Object with 90% remission (based on standard white DIN 5033)

	Cylindrical photoelectric sensors
	MH15 • Cylindrical housing (M18) • Flexible hole mounting • Long sensing ranges and operating reserves 
Sensor and detection principle	 
Enclosure rating	IP 67
Scanning/ sensing range max.	0.035 m ... 5 m** (retro-reflective) 0 m ... 5 m (through beam)
Switching output	PNP/NPN Light/dark switching
Type of light	Visible red light Infrared light
Supply voltage	10 V DC ... 30 V DC
Accessories*	Mounting bracket Reflector

	Advanced automation light grids	
	MLG-2 Prime • IP 65/67 housing and usable down to -30°C 	**MLG-2 Pro** • High resolution mode • High speed scan 
Minimum detectable object	9, 14 , 29, 54 mm	5,9,10,14,25,29,50,54 mm
Number of beams	6...150	6...480
Operating range	0...7 m	0...11.2 m
Height of detection	140...3140 mm	140...3140 mm
Data interface	2 x Analog + 1 x Q (IO Link) or 3 x Q (IO Link)	2 x Analog + 2 x Q (IO Link), RS485 + 2 x Q (IO Link), or 4 x Q (IO Link)
Response time	6...17.3 ms	3.5...38.5 ms
Features	Optical Synchronisation	Sunlight and Dust Resistance Mode Ethernet based : Profinet, Profibus and Canopen (coming soon)

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** Reflector PL80A

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