Vision Sensors

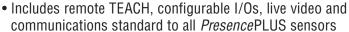
Presence PLUS® P4

GEO and **GEO** 1.3 **Vision Sensors for Shape Detection**

- Uses GEO Count tool to detect the presence, location and rotation of a target pattern
- Inspects for correct features regardless of product orientation or position in the sensor's field of view
- Standard GEO model provides high-speed analysis of up to 6,000 parts per minute.
- High-resolution GEO 1.3 model (1280 x 1024 pixels) features 1.3 megapixel imaging for extra detail or extended sensing field of view.
- Features compact, self-contained P4 housing

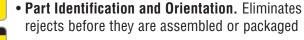


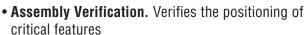




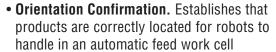












• Label Verification. Verifies that appropriate labels are correctly positioned in a packaging application

Presence PLUS® P4 GEO Sensors



Models	Housing	Resolution	Vision Tools	Location/ Rotation Adj.	Communications	Multiple Inspections	Lens	Discrete I/O	Data Sheet
P4GR	Right- Angle	128 x 100 Pixels	GEO Count	Locate ± 90 degrees GEO Find ± 180 degrees	Ethernet IP Modbus/TCP ASCII 10/100 Ethernet RS-232C	12 Remotely Selectable	Standard C-Mount or Megapixel C-Mount	4 Configurable: Electrical (NPN/PNP Selectable), Function, Timing	
P4GI	In-Line								Quickstart: 118000
P4G1.3R	Right- Angle	1280 x 1024 Pixels					Megapixel C-Mount		Manuals: 121555
P4G1.3I	In-Line								

Presence PLUS® P4 GEO Solution Kit



Solution kits include sensor, bracket, cordset, lens, light, PC interface cable, CD-ROM and Quickstart Guide. Detailed information about individual kit components follows.

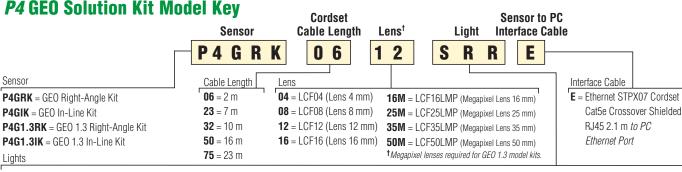
■ Sensors	ì
■ Lights	į
■ Lens	!
■ Cables	;

A partial listing of kits is below; see Kit Model Key to order other variations.

Model Number Right-Angle Sensor	Model Number In-Line Sensor	Sensor	Cordset*	Lens	Light**	Sensor to PC Interface Cable [†]
P4GRK0612LRRE	P4GIK0612LRRE	GEO	- 2 m	12 mm	Red 80 x 80 mm Ring Light	Cat5e 2.1 m Crossover RJ45 Ethernet
P4GRK0616LRRE	P4GIK0616LRRE	GEU		16 mm		
P4G1.3RK0616MLRRE	P4G1.3IK0616MLRRE	05040		16 mm Megapixel		
P4G1.3RK0625MLRRE	P4G1.3IK0625MLRRE	GEO 1.3		25 mm Megapixel		
P4GRK0612ARE	P4GIK0612ARE	GEO		12 mm	Red 80 x 80 mm Area Light	
P4GRK0616ARE	P4GIK0616ARE	GEU		16 mm		
P4G1.3RK0616MARE	P4G1.3IK0616MARE	05040		16 mm Megapixel		
P4G1.3RK0625MARE	P4G1.3IK0625MARE	GEO 1.3		25 mm Megapixel	Ů	

^{*} Other lengths available. See Model Key. ** Red lights shown. Infrared and other LED colors available. See Model Key.

[†] Can be omitted by removing suffix E in kit model number.



SRR = LEDRR62X62M (Ring Light, Red, 62 x 62 mm)

SRW = LEDWR62X62M (Ring Light, White, 62 x 62 mm)

SRB = LEDBR62X62M (Ring Light, Blue, 62 x 62 mm)

SRG = LEDGR62X62M (Ring Light, Green, 62 x 62 mm)

SRI = LEDIR62X62M (Ring Light, Infrared, 62 x 62 mm)

LRR = LEDRR80X80M (Ring Light, Red, 80 x 80 mm)

LRW = LEDWR80X80M (Ring Light, White, 80 x 80 mm) **LRB** = LEDBR80X80M (Ring Light, Blue, 80 x 80 mm)

LRG = LEDGR80X80M (Ring Light, Green, 80 x 80 mm)

LRI = LEDIR80X80M (Ring Light, Infrared, 80 x 80 mm)

 $\mathbf{AR} = \mathsf{LEDRA80X80M}$ (Area Light, Red, 80 x 80 mm)

AW = LEDWA80X80M (Area Light, White, 80 x 80 mm)

AB = LEDBA80X80M (Area Light, Blue, 80 x 80 mm)

AG = LEDGA80X80M (Area Light, Green, 80 x 80 mm)

AI = LEDIA80X80M (Area Light, Infrared, 80 x 80 mm) **SAR** = LEDRA62X62M (Area Light, Red, 62 x 62 mm)

SAW = LEDWA62X62M (Area Light, White, 62 x 62 mm)

SAB = LEDBA62X62M (Area Light, Blue, 62 x 62 mm)

SAG = LEDGA62X62M (Area Light, Green, 62 x 62 mm)

SAI = LEDIA62X62M (Area Light, Infrared, 62 x 62 mm)

BR = LEDRB70X70M (Backlight, Red, 70 x 70 mm)

BI = LEDIB70X70M (Backlight, Infrared, 70 x 70 mm)

LBR = LEDRB85X220M (Backlight, Red, 85 x 220 mm)

LBI = LEDIB85X220M (Backlight, Infrared, 85 x 220 mm)

P4 GEO Basic Kits and Sensors



GEO Model Number	GEO 1.3 Model Number	Description
P4GRK06	P4G1.3RK06	Kit: Right-Angle Sensor, Bracket, 2 m Cordset, CD-ROM and Quickstart Guide
P4GRK23	P4G1.3RK23	Kit: Right-Angle Sensor, Bracket, 7 m Cordset, CD-ROM and Quickstart Guide
P4GRK32	P4G1.3RK32	Kit: Right-Angle Sensor, Bracket, 10 m Cordset, CD-ROM and Quickstart Guide
P4GIK06	P4G1.3IK06	Kit: In-Line Sensor, Bracket, 2 m Cordset, CD-ROM and Quickstart Guide
P4GIK23	P4G1.3IK23	Kit: In-Line Sensor, Bracket, 7 m Cordset, CD-ROM and Quickstart Guide
P4GIK32	P4G1.3IK32	Kit: In-Line Sensor, Bracket, 10 m Cordset, CD-ROM and Quickstart Guide
P4GR	P4G1.3R	Right-Angle Sensor—Includes Bracket and CD-ROM
P4GI	P4G1.3I	In-Line Sensor—Includes Bracket and CD-ROM