

PresencePLUS[®] Pro



- Full-function vision sensor with a compact camera and separate controller



- Removable terminal block

- Metal IP68-rated camera and integrated light for inspections in dirty or washdown conditions

- Complete set of inspection tools available such as location and analysis, pattern count...

BANNER

PresencePLUS[®] P4 OMNI



- P4 OMNI: multi-function vision sensor that combines all the P4 inspection tools (EDGE, GEO, AREA & BCR)
- Compact, self-contained housing

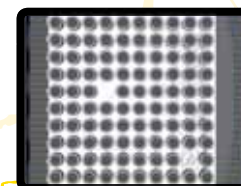
- P4 EDGE: Finding dark-bright transitions



- P4 GEO: Geometric recognition in any orientation



- P4 AREA: Finding dark and bright spots



- P4 BCR: Datamatrix and Barcode reading



PresencePLUS[®] COLOR

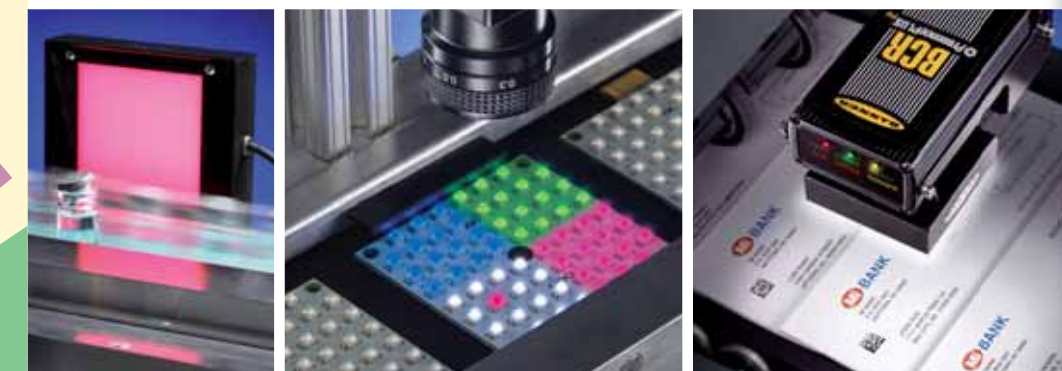


- Full-function colour vision sensor in a compact, self-contained housing



- Full-function colour vision sensor with a compact camera and separate controller

PresencePLUS[®]



EDGE

GEO

AREA

BCR

Coloured Fuse Detection

Datamatrix Detection

Blister Verification

CD Rotation

Bottle Label Alignment

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Vision functions

- All models include locate, measurement, test and communications tools

- Specific vision tools include Edge, Blob, Geometric pattern recognition, average greyscale, greyscale correlation, colour matching and Datamatrix code reading, depending on model type

- Graphically develop your application on a single reference image

- Common user interface for all devices

- ActiveX based utilities to control the sensor and archive images

- Easy-to-use software in nine different languages available, such as: German, French, Italian, ...

Graphical User Interface



- External TEACH function allows easy adjustment of inspection parameters, based on a sample

TEACH Input



PresencePLUS Vision Sensors



- Complete range of Banner lighting options
- C-mount lenses available for standard, high-performance and megapixel imagers

Accessories



Resolution



- PresencePLUS Pro: CCD 640 x 480 pixels
- PresencePLUS P4 EDGE, GEO & AREA: CMOS 128 x 100 pixels or 1280 x 1024 pixels
- PresencePLUS P4 OMNI & P4 BCR: CCD 640 x 480 pixels or CMOS 1280 x 1024 pixels
- PresencePLUS COLOR: RGB colour CMOS 752 x 480 pixels

Optics

A big selection of standard or high-performance lenses



Colour or infrared filters & polarisation filters



Diffusers and polarisation filters for Area and Ring lights



Laser Line Projectors

Class II red laser, available with vertical or horizontal line, cross or circle



Tubular Fluorescent Lights

For illumination of large objects, models with internal or external ballast available



Accessories

Lighting

Standard Lighting

Sample piece

Ring Lights



Provides bright illumination for smaller objects and eliminates glare of shiny objects when using optional polarising kits



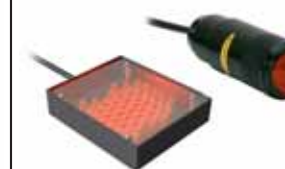
Backlights



Highlights through-holes in target objects and give optimal contrast for contour verification



Area & Spot Lights



Lights objects under a specific angle, creating shadows or avoiding glare



Advanced Lighting

On-Axis Lights



Provides an even illumination over the covered area and enhances the contrast between surface texture differences



Low Angle Ring Lights



Highlights surface irregularities such as dust and scratches, creates shadows and hot spots on elevated parts



Highly Diffused Lights



Eliminates glare and shadows, illuminates curved surfaces evenly and minimises texture



Monitors & Housings

Flat panel monitor



IP40 Housing for camera
IP67 Housing for vision sensor



Brackets

Mounting bracket assembly for PresencePLUS Pro Camera



Swivel mounting bracket for PresencePLUS P4



Mounting brackets to fix lights to the P4 sensor

