

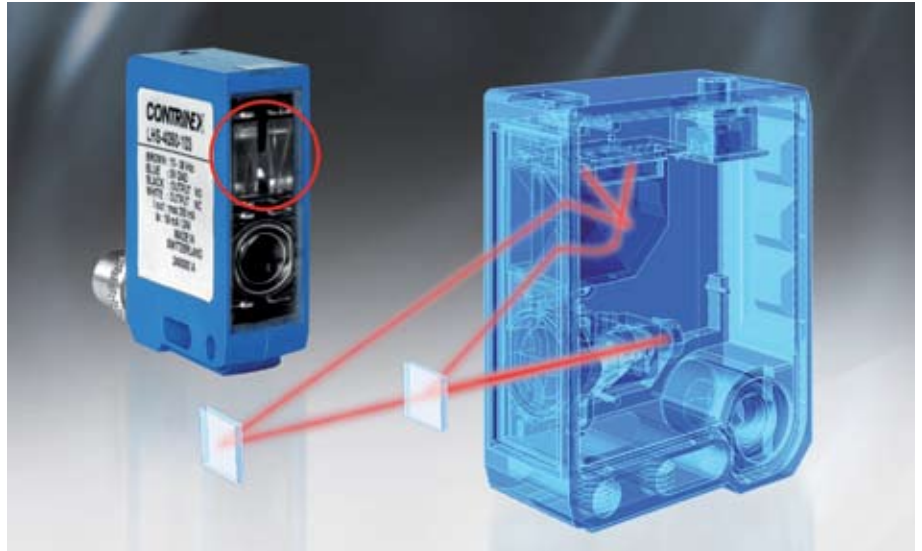
Make the invisible visible!
SENSORS WITH EXCELLENT BACKGROUND SUPPRESSION

CONTRINEX



PHOTOELECTRIC SENSORS

Thanks to its vision for innovation and technological enhancement, Contrinex keeps on setting new standards in the sensor world. The latest being a highly technologically advanced photoelectric sensor, in an industry standard size housing, with extended operating distance, capable of sensing independent of remission and surface of the target. The diffuse sensor with background suppression has large setting dynamics (25...500 mm), abnormal for sensors with electronic setting.



KEY ADVANTAGES

- ✓ Detection is independent of the target remission and surface
- ✓ Stable detection over the whole distance
- ✓ With a switching frequency of 500 Hz reliable detection of small and fast moving parts is guaranteed
- ✓ Vibration and shock resistant
- ✓ Insensitive to ambient light influences (e.g. flashing lights)
- ✓ Fixed optics with large setting dynamics 20:1
- ✓ The complete family is now available

AVAILABLE PROGRAM

Type	Description	Sensing distance	Advantages
LH 4#50	Diffuse sensor with background suppression	25 ... 500 mm	<ul style="list-style-type: none"> ✓ easy setup ✓ large setting dynamics ✓ reliable detection
LT 4#50	Energetic diffuse sensor	1,200 mm	<ul style="list-style-type: none"> ✓ easy setup ✓ 3-turn potentiometer ✓ large operating distance
LL 4#50	Through-beam sensor	50,000 mm	<ul style="list-style-type: none"> ✓ very large operating distance ✓ reliable switching ✓ insensitive to ambient light
LR 4#50	Reflexion through-beam sensor	4,000 mm 8,000 mm	<ul style="list-style-type: none"> ✓ reliable object detection ✓ shiny objects can be detected
FT 4#55	Color sensor	40 mm	<ul style="list-style-type: none"> ✓ 3 color teach-in etc.

LOGISTIC SOLUTIONS

Sensors for 24/7 operation

Reliable operation is the key requirement for all logistic centers

Requirements

- ✓ Robust sensors for 24/7 operation
- ✓ Easy installation and adjustment
- ✓ EMC and ambient light protected

Customer benefits

- ✓ Vibration, shock, EMC and ambient light resistance
- ✓ Easy setup due to the standardized housing and flexible mounting options
- ✓ Easy adjustment



FILLING MACHINES

The sensors family for flexible filling solutions

High speed reliable detection is the key success factor for flexible filling solutions

Requirements

- ✓ Robust fluid protected sensors
- ✓ Reliable detection independent of color, remission and surface
- ✓ Secure detection of fast moving objects

Customer benefits

- ✓ Ecolab approved sensor in IP 67 rated housing enables secure operation and easy cleaning
- ✓ Robust sensor with coated plexiglass window
- ✓ Polarised reflex sensor for reliable detection of shiny objects



FOOD INDUSTRY

Reliable sensing in hygienic environments

Easy to clean robust sensing solutions are fundamental in the food industry

Requirements

- ✓ High detergent resistance
- ✓ Reliable detection independent of color, remission and surface
- ✓ Easy mounting and setup

Customer benefits

- ✓ Ecolab approved sensor in IP 67 rated housing enables secure operation and easy cleaning
- ✓ Enhanced sensing functionality in an industry standard housing
- ✓ Robust sensor with coated plexiglass window



PACKAGING MACHINES

Sensors for complex and flexible packaging solutions

Reliable detection of various packaging materials at high speeds is a key requirement for modern packaging solutions

Requirements

- ✓ Fast detection of different objects
- ✓ Flexibility
- ✓ EMC and ambient light protected

Customer benefits

- ✓ Background suppression with no black/white shift ensures reliable detection of all objects within the set range
- ✓ Vibration, shock, EMC and ambient light resistance
- ✓ Visible red light and flexible mounting options enable easy setup
- ✓ Seamless transition in objects without downtime



COLOR SENSING

“World quality” automated production processes need reliable and secure color differentiation and quality control of produced goods. With an excellent price / performance ratio the new application solver is the series 4050 color sensor with 3 teachable color channels with independent outputs. Each output has 5 tolerance levels to ensure maximum flexibility.



Color detection is not only used in automated production processes but also in a variety of applications ranging from the packaging and printing industry to sorting of different colored objects.

Key advantages

- ✓ Recognize «programmed» colors
- ✓ Operating distance: 30 ... 40 mm
- ✓ 3 color channels with «Teach» and independent outputs
- ✓ 5 tolerance levels for each output
- ✓ Programmable output timing (0...5 ms)

Typical application

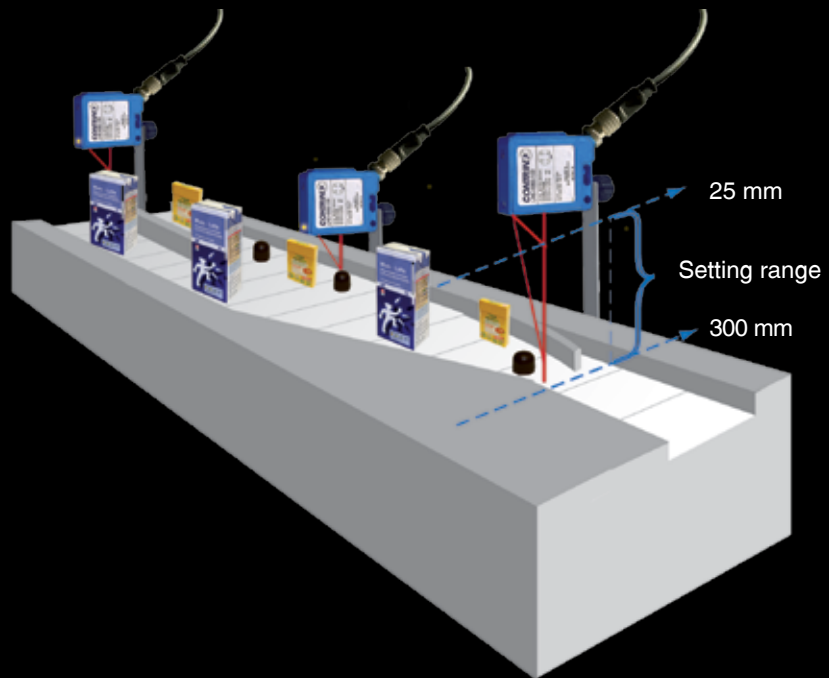
- ✓ Presence monitoring and identification
- ✓ Sorting of different colored objects
- ✓ Color monitoring
- ✓ Quality control
- ✓ Position control

BACKGROUND SUPPRESSION

The series 4050 diffuse sensor with background suppression has a patented double optics system. In using this system, Contrinex has achieved on the one hand, the benefits of fixed optics which are vibration and shock resistance and on the other hand, having enhanced setting dynamics which are unusual for sensors with fixed optics.

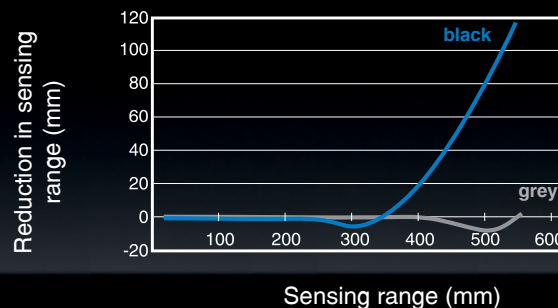
KEY ADVANTAGES

- ✓ Large setting dynamics 20:1 (from 25 mm to 500 mm)
- ✓ Vibration and shock resistant
- ✓ Excellent background suppression
- ✓ Easy and fast to adjust



Detection independent of target color and surface

Up to 300 mm you will notice no black/white shift. This ensures reliable detection independent of the remission of the target. Even more remarkable is that a small black target on a white background is securely detected.





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Contrinex UK Ltd.

Units 5 & 6, The Old Mill - 61 Reading Road - Pangbourne
Berkshire RG8 7HY - United Kingdom
Tel: +44 118 976 7040 - **Fax:** +44 118 976 7041
Internet: www.contrinex.co.uk - **E-mail:** info@contrinex.co.uk

Contrinex Inc.

2 Business Park Road - Old Saybrook, CT 06475 - USA
Tel: 860 388 3573 - **Toll free:** 866 289 2899 - **Fax:** 860 388 3574
Internet: www.contrinex.com - **E-mail:** info_us@contrinex.com

Contrinex Automation Pvt Ltd

Unit 664, Level 6, Pentagon P-2 - Magarpatta City
Hadapsar - Pune - 411 013 - Maharashtra - India
Tel: +91 20 401 47 882 - **Fax:** +91 20 662 80 011
Internet: www.contrinex.in - **E-mail:** info@contrinex.in

Contrinex AG Industrial Electronics

route André Piller 50 - PO Box - CH 1762 Givisiez - Switzerland
Tel: +41 26 460 46 46 - **Fax:** +41 26 460 46 40
Internet: www.contrinex.com - **E-mail:** info@contrinex.com