



2 rue René Laennec 51500 Taissy France Fax: 03 26 85 19 08, Tel : 03 26 82 49 29

E-mail:hvssystem@hvssystem.com Site web : www.hvssystem.com

the sensor people

28 Series -

Powerful photoelectric sensor with universal mounting options



Intelligent sensor technology for the entire world of automation.

The 28 series sensors are reliable, powerful photoelectric sensors that are predestined for many standard detection tasks in materials handling, packaging technology and machines for special applications. They feature high operating ranges and many technical highlights such as the brightVision[®] light spot for easy alignment and are available at an incredibly price/performance ratio.

On light scanners the innovative teach button for optimum adaptation of the sensitivity reinforces this simple concept.

Best service

- Convenient online product selector for easy comparison and selection of the right product using technical features
- Global production concept guarantees worldwide availability of products, even on short notice
- **Global price guarantee** increases planning security in worldwide markets
- Competent customer service center and technical support aid in the selection of suitable products and the right implementation

Very simple operation

- Large brightVision[®] light spot without blind area for easy alignment and reliable detection of even the smallest objects
- Bright yellow/green LED status display for easy function state check
- A²LS active suppression of extraneous light for reliable detection and low susceptibility to ambient and stray light
- Integrated **teach button** for easy and convenient sensitivity adjustment

Flexible integration options

- Sturdy, warp-resistant, **plastic housing** in **IP 67** for sensor use even in rough industrial environments
- Two complementary switching outputs for either light or dark switching operation
- Innovative fastening concepts for flexible mounting and easy alignment
- Large temperature range from -40 to +60 °C makes possible a broad range of applications

Reliability for many

standard detection tasks.



Throughbeam photoelectric sensor - L28

Light source	highly visible red light
Operating range limit	015.0 m
Switching frequency	500 Hz

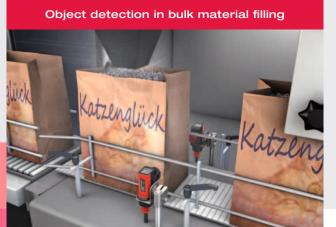
- High performance reserve enables reliable detection even in extreme situations and reduces the risk of a system standstill
- Simple alignment by means of optimized beam geometry
- Simple detection of flat objects
- Deactivation inputs for testing and networking



Retro-reflective photoelectric sensor – PRK28

Light source	highly visible red light
Operating range limit	0.026.0 m
Switching frequency	500 Hz

- High performance reserve enables reliable detection even in extreme situations and reduces the risk of a system standstill
- Safe suppression of direct reflection due to polarization filter





Many technical highlights for extremely high performance.





Reflection light scanner - ET28, energetic

Light source	highly visible red light
Operating range limit	0.020.85 m
Switching frequency	500 Hz

- High performance reserve enables reliable detection even in extreme situations
- Simple alignment by means of optimized beam geometry
- Simple detection of flat objects
- Optimum adaptation with teach button and 2 levels (object or background)

Reflection light scanner - FT28, with fading

Light source	highly visible red light
Operating range limit	0.020.25 m
Switching frequency	500 Hz

- Homogeneous light spot for reliable switching behavior for various objects
- High sensitivity for precise switching behavior
- Optimum adaptation with teach button and 2 levels (object or background)





Mounting and handling just the way you want them.

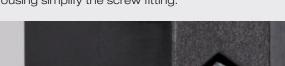
This series features three mounting options and can therefore be used very flexibly in all installation situations. Choose between simple, universal mounting via an M18 thread on the front or bottom of the device or very robust screw fitting

on the through holes. The pockets for the mounting nuts integrated in the housing also serve as anti-rotation protection and considerably simplify mounting.

On the front with M18 hole mounting at the beam exit.

Standing screw fitting or M18 thread on the bottom of the device.

The pockets for the fastening nuts integrated in the housing simplify the screw fitting.







On the side using robust screw fitting on the housing.





Versatile selection of connections available: Cable, M8, M12 Pigtail



Extremely user-friendly with one-point teach feature.

Teach-in for similar objects: Press teach button for approx. 2 sec. – LEDs flash together. Teach-in, when background is darker than object: Press teach button for approx. 7 sec. – LEDs flash alternately.

brightVision[®] light spot

The bright, full surface light spot without blind area allows simple alignment and reliable detection of even the smallest objects.

Selection of mounting devices ensures comprehensive mounting possibilities:

BT D18M.5: Sensor mounting bracket BT D21M: Reinforced sensor mounting bracket BTP200-Dxx: Sensor protective covers for rod mounting





BT D18M.5



BT D21M



BTP200-Dxx

Switching Sensors

Optical Sensors Ultrasonic Sensors Fiber Optic Sensors Inductive Switches Forked Sensors Light Curtains Special Sensors

Measuring Sensors

Distance Sensors Sensors for Positioning 3D Sensors Light Curtains Forked Sensors

Products for Safety at Work

Optoelectronic Safety Sensors Safe Locking Devices and Switches Safe Control Components Machine Safety Services

Identification

Bar Code Identification 2D-Code Identification RF Identification

Data Transmission/

Control Components MA Modular Interfacing Units Data Transmission Safe Control Components

Industrial Image Processing Light-Section Sensors Smart Camera

Leuze electronic GmbH + Co. KG In der Braike 1 D-73277 Owen/Germany Phone +497021573-0 Fax +497021573-199 info@leuze.de www.leuze.com