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the **sensor** people

28 Series –
Powerful photoelectric sensor
with universal mounting options



PRODUCT INFORMATION

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	0...15.0 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	0.02...6.0 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

Object detection in bulk material filling



Object detection on the transport system



Many technical highlights
for extremely high performance.



**Reflection light scanner -
ET28, energetic**

Light source	highly visible red light
Operating range limit	0.02...0.85 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	0.02...0.25 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)

Object detection with various colors



Object detection for glossy objects



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 front with M18 hole mounting at the beam exit.



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

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



On the side using robust screw fitting on the housing.



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



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

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