

 **Leuze electronic**

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the **sensor** people

5 Series –

Photoelectric sensors and
light scanners designed especially
for standard detection tasks



PRODUCT INFORMATION

High performance, compact housing.



The 5 Series photoelectric sensors are designed to make use of our sensors as easy as possible for you. They are always the right choice when a powerful and robust standard detection task, for example in transport systems or packaging technology, is required. The integrated M3 metal threaded sleeves, the cable outlet at the bottom or rear of the device available as an alternative and the compact construction provide extremely diverse installation options in very limited spaces.

On 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

Reliable object detection in standard applications.



**Throughbeam photoelectric sensor –
L5**

Light source	highly visible red light
Operating range limit	0...15 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
- Transmitter deactivation for testing and networking



**Retro-reflective photoelectric sensor –
PRK5**

Light source	highly visible red light
Operating range limit	0.02...6.0 m
Switching frequency	500 Hz

- Homogeneous light spot for safe switching behavior and easy alignment
- Safe suppression of direct reflection due to polarization filter
- Warp-resistant housing with reliably strong mount prevents depolarization effects

Detection of flat, glossy objects



Object detection on the transport system



Universal, robust
and **versatile.**



Reflection light scanner -
ET5, energetic

Light source	highly visible red light
Operating range limit	0.03...1.0 m
Switching frequency	500 Hz

- High performance reserves ensure reliable detection
- Simple alignment by means of optimized beam geometry
- Optimum adaptation with teach button and 2 levels (object or background)



Reflection light scanner -
FT5, with fading

Light source	highly visible red light
Operating range limit	0.03...0.25 m
Switching frequency	500 Hz

- Homogeneous light spot for safe switching behavior and easy alignment
- High sensitivity for precise switching behavior
- Optimum adaptation with teach button and 2 levels (object or background)

Object detection on transportation systems



Detection of glossy objects



Very easy integration and alignment.

brightVision® light spot

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



Cable outlets

Integration even in extremely limited installation spaces thanks to flexible cable outlet at the bottom or rear of the device.



Robust mounting

Metal threads integrated into the sensor housing enable quick mounting even in extremely limited installation spaces and do not give out even with high tightening torques.



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.



Selection of mounting devices ensures comprehensive mounting possibilities:

BTP 200M: Sensor protective covers for rod mounting
BTU 200M: Sensor mounting brackets for rod mounting
BT 200M.5: Sensor mounting bracket



BTP 200M



BTU 200M



BT 200M.5



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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