

 **Leuze electronic**

HVS
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the **sensor** people

2 Series

Scanners and
photoelectric sensors
Small, robust and truly
high-performance



PRODUCT INFORMATION

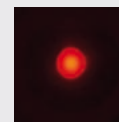
So **small** and yet **true** professionals.

With the various miniature sensors of the 2 Series, you are ideally prepared for a range of different applications.

With increasing automation in industry and increasing time and cost pressure, so too increase the requirements on components, in our case, on sensors. With the 2 Series, we now offer, in addition to our previous products, solutions specifically developed for the areas of handling technology and robotics. The miniature sensors are available with various operating principle – from scanners to photoelectric sensors. They are suitable for a wide range of industries and applications and convince with the sum of their features and functions.



Three high performers that can deliver.



Shown in
actual size

Simple, but effective

Throughbeam photoelectric sensor – LS

With their very small light spot, these classic throughbeam photoelectric sensors are predestined for the reliable detection of small parts. Their miniature format also allows them to be mounted in constrained spaces.

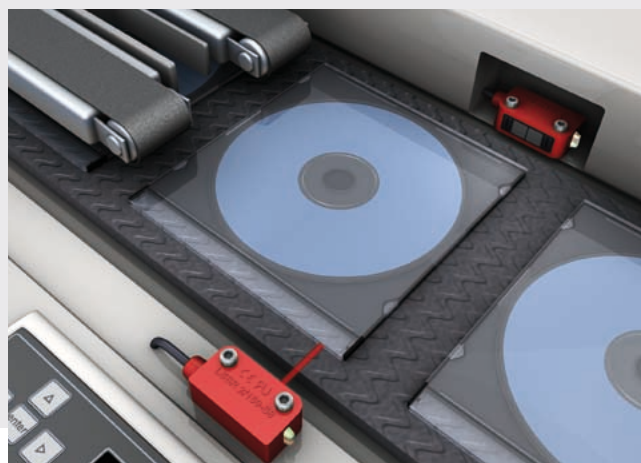
Whenever reliable detection is needed in restricted installation spaces, the sensors of the 2 Series are the right choice. Moreover, the housing, fully molded with thermoelastic elastomer, offers reliable protection against environmental influences.

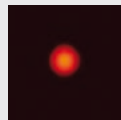
The sensors are used primarily in the following industries and areas:

- **Handling technology and robotics:** e.g. for the detection of small parts on assembly lines
- **Electronics industry:** e.g. for the detection of electronic components in the grippers of an automated insertion unit
- **Packaging industry:** e.g. for the detection of covers or blister packages on a conveyor belt
- **Machine construction:** e.g. for the electronic detection of a control cam within a system

- Large operating ranges / high performance reserve possible
- PinPoint LED for producing a small, homogeneous and highly visible light spot that is ideally suited for the detection of small parts

Operating range:	0–2 m
Light source:	Visible red light with homogeneous light spot
Dimensions:	23.1 x 12 x 8 mm
Switching output:	Pin 4 PNP; PIN 2 NPN
Switching frequency:	385 Hz
Optics:	Polycarbonate (PC)





Shown in actual size

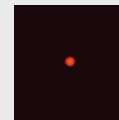
Clever when faced with shiny surfaces

Polarized retro-reflective photoelectric sensor – PRK

The use of polarized light makes these photoelectric sensors the right choice whenever glossy surfaces need to be detected reliably and fail safe.

- Large operating ranges / high performance reserve possible
- PinPoint LED for producing a small, homogeneous and highly visible light spot for the detection of small parts
- Glass optics and polarized light for reliable switching behavior with glossy surfaces

Operating range: 0.07 – 4 m
 Light source: Visible red light with homogeneous light spot
 Dimensions: 23.1 x 12 x 8 mm
 Switching output: Pin 4 PNP; PIN 2 NPN
 Switching frequency: 700 Hz
 Optics: Glass



Shown at focal point in actual size

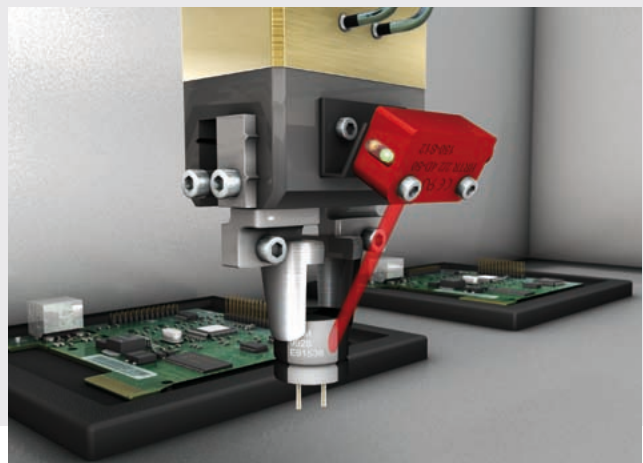
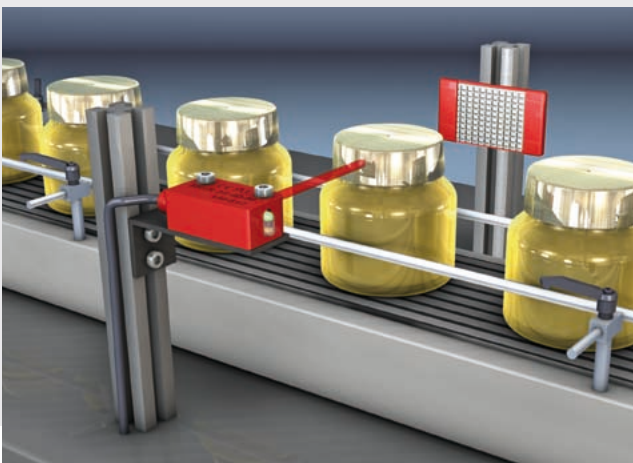
Good when things get small

Scanner with background suppression – HRTR

These scanners score big thanks, in particular, to their small light spot and good background suppression.

- Miniature diffuse reflection light scanner with visible red light
- Homogeneous light beam with very small, laser-like light spot
- Very good background suppression

Operating range: Fixed at 15 / 30 / 50 mm
 Light source: Visible red light with laser-like light spot (focused)
 Dimensions: 23.1 x 12 x 8 mm
 Switching output: Pin 4 PNP; PIN 2 NPN
 Switching frequency: 700 Hz
 Optics: Polycarbonate (PC)



Here, **outstanding qualities** are part of the family.

Products of the 2 Series share not only the proven high Leuze quality, but also an entire range of concrete features that make use even more secure, simple and reliable.



Optoelectronic Sensors

Cubic Series
Cylindrical Sensors, Mini Sensors, Fiber Optic Amplifiers
Measuring Sensors
Special Sensors
Light Curtains
Forked Sensors
Double Sheet Monitoring, Splice Detection
Inductive Switches
Accessories

Identification Systems

Data Transmission Systems

Distance Measurement

Barcode Readers
RF-IDent-Systems
Modular Interfacing Units
Industrial Image Processing Systems
Optical Data Transmission Systems
Optical Distance Measurement/Positioning
Mobile Code Readers

Safety Sensors

Safety Systems

Safety Services

Safety Laser Scanners
Safety Light Curtains
Transceiver and Multiple Light Beam Safety Devices
Single Light Beam Safety Devices
AS-i-Safety Product Range
Safety Sensor Technology for PROFIBUS DP
Safety Switches, Safety Locking Devices, Safety Command Devices
Safety Relays
Sensor Accessories and Signal Devices
Safety Engineering Software
Machine Safety Services

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