Leuze electronic

the sensor people

SMART
SENSOR
BUSINESS

49C SERIES

AC / DC all mains voltage sensor with large performance reserves

powerreserve.

www.leuze.com

ПРОМЭЛЕКТРОНИКА / sales@prom-elec.com

OPTIMUM POWER FOR MAXIMUM RELIABILITY

The AC/DC sensors of the 49C series convince with intelligent housing details and large operating ranges.

*power*reserve.

ONE FOR EVERY ENVIRONMENT

The switching contact makes maximum flexibility and a large area of application among the outstanding features of these high-performance AC/DC sensors.

MORE POWER – MORE PERFORMANCE RESERVE

Regardless of whether as throughbeam photoelectric sensor, retro-reflective photoelectric sensor or scanner with background suppression, the sensors of the 49C series operate in the voltage range from 20 V to 250 V with range-dependent power adaptation. With the switching contact, they can also be used if long cable lengths to the PLC need to be bridged.

With an operating range of up to 24 m with the retro-reflective photoelectric sensor and up to 120 m with the transmitter / receiver design, these sensors can also be used reliably over long distances in automated parking systems, in the wood working industry and in crane and packaging systems.

In addition, an innovative housing design with terminal compartment at the front as well as a number of technical details make for easy mounting, alignment and operation.

*easy*handling.

- **Terminal compartment accessible from the front**
  (spring terminal 5 x 1.5 mm²) for fast installation
- **Active ambient light suppression A²LS**
  prevents interference from other sensors and the environment
- **Holes and mounting devices compatible**
  with standard series 96 and 46 sensors on mounting brackets or rods
- **Perfect all-round LED visibility**
  for status display and simple diagnosis, even over long distances
- ***bright*vision light spot**
  with visible red light for simple alignment
- **Simple adaptation**
  of the sensitivity using a potentiometer on the rear side of the device, selectable timer function and light/dark switching

*power*reserve.

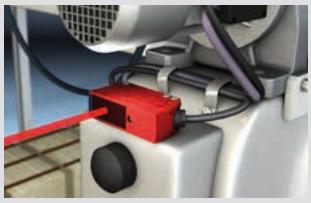
- **ALC sensitivity readjustment**
  guarantees a constant performance reserve in the event of soiling and thereby ensures greater availability
- **Optimized transmission power adaptation**
  for maximum detection reliability by avoiding total reflection at short ranges
- **High switching power**
  through switching contact / relay
- **With heating**
  for operation at temperatures as low as -40 °C
- **Red light / infrared variants**
  for maximum color independence and flexibility in use

WE HAVE REINVENTED WIRING

With the terminal compartment at the front, connection and mounting are possible everywhere without difficulty.

WHO SAYS THAT DEVICES ALWAYS NEED TO BE CONNECTED FROM THE REAR OR FROM BELOW?

The wiring compartment with clampable connections accessible from the front makes installation very fast and easy. The cable is guided through the device from behind/ below at a 45° angle which saves valuable space, e.g., when mounting in confined installation areas or in corners.



The terminal compartment accessible from the front allows for installation even in the tightest of spaces

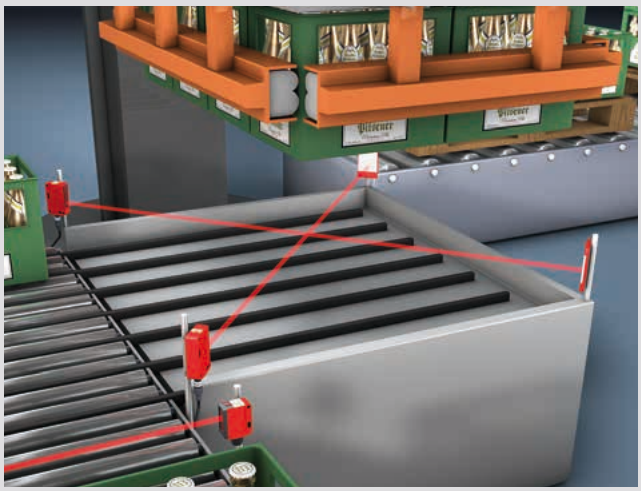
The innovative 45° cable routing simplifies mounting

Simply mount the cover and plug in the cable – installation in the innovative terminal compartment can be that easy. No unnecessary contorted movements, no screws and, with the clamp connections, even removal is easy.

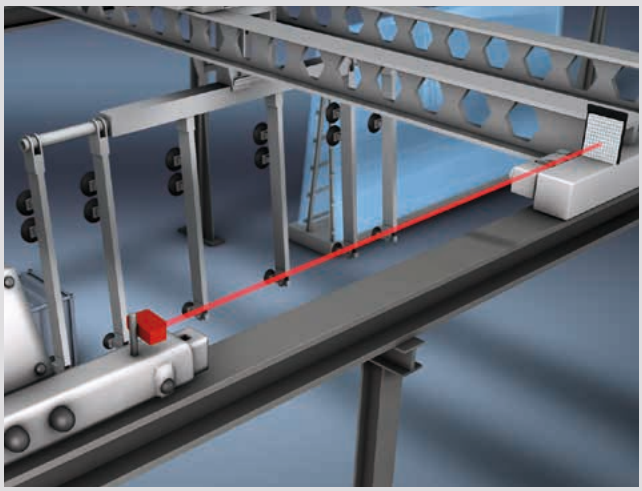
OPTIMUM POWER IS CALLED FOR IN EVERY INDUSTRY

Whether in automatic parking systems and with crane systems where the installation space is very limited, with packaging systems where large operating ranges are needed, or in the wood working industry, in which sensors must work reliably even in the event of soiling – the new 49C handles all tasks without problem with its flexible functions and many clever detail solutions.

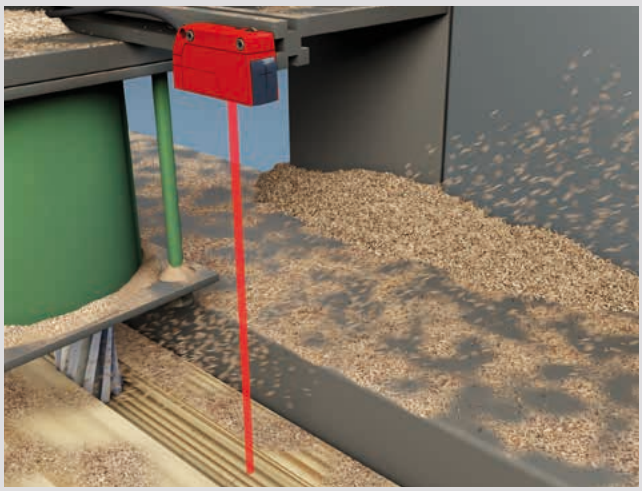
Parking place position and occupation check



Object detection in large plants and general transport systems



Collision detection in crane systems



Object detection in soiled environments

TECHNOLOGY THAT CONVINCES

LS / LE 49C
photoelectric sensor
transmitter / receiver

PRK 49C
retro-reflective
photoelectric sensor
and HRT 49C scanner

Type	Range [m]	Light source
PRK 49C	0.3 – 24 / 30 m	Red light
LS / LE 49C	0.5 – 120 / 150 m	Red light / infrared
HRT 49C	0.05 – 1.5 / 3 m	Red light / infrared

Specifications	
Temperature range (operation)	-40 to +60 °C
Switching frequency	25 Hz (relay) / 150 Hz (MOSFET)
Degree of protection	IP 67 and IP 69K
Dimensions	56 × 31 × 110 mm
Switching output	Relay contact (changeover) / MOSFET

OUR PROMISE TO YOU

SMARTER **PRODUCT USABILITY**

With regard to our product developments, we systematically place emphasis on the especially good usability of all devices. To this end, simple mounting and alignment are taken into account – just as the uncomplicated integrability of the sensors in existing fieldbus systems and easy configuration, e.g. via a web browser, are.

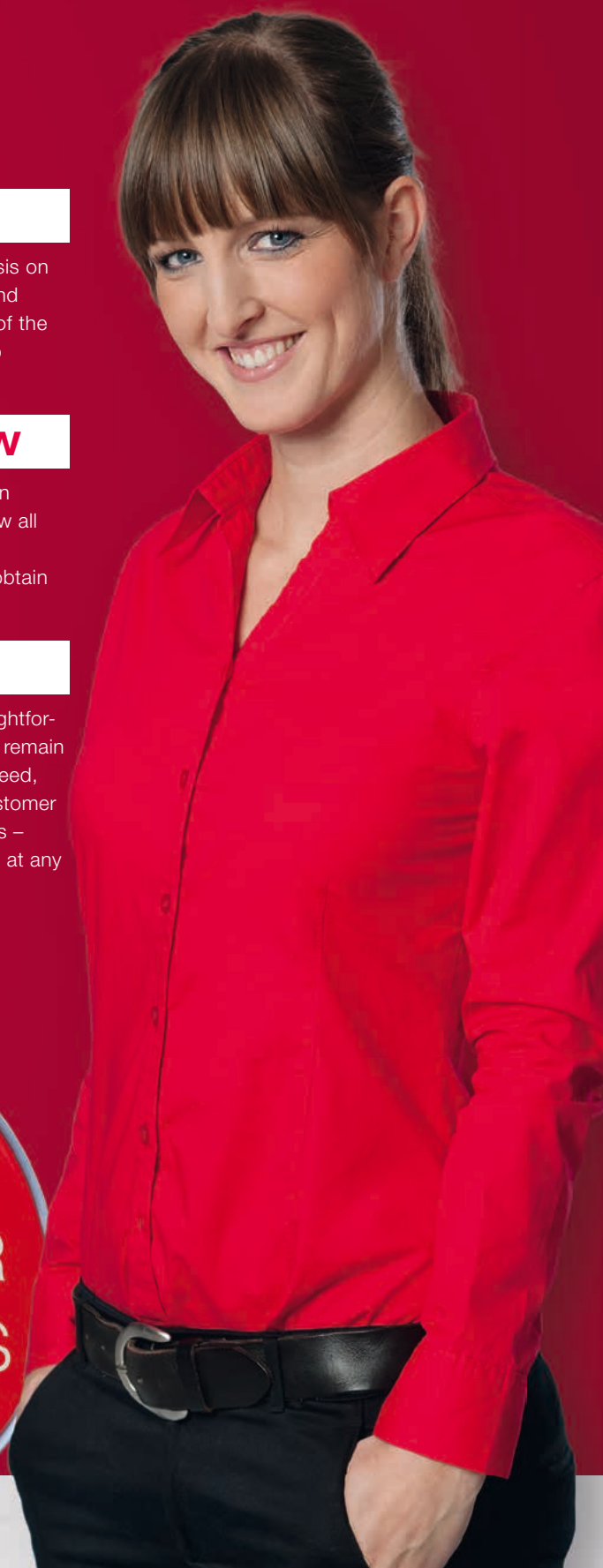
SMARTER **APPLICATION KNOW-HOW**

Whoever can do it all, can do nothing right. Which is why we concentrate on selected target sectors and applications. There, we are specialists and know all aspects inside out. For this purpose, we optimize our solutions and offer a comprehensive product range that makes it possible for our customers to obtain the absolute best solutions from a single source.

SMARTER **CUSTOMER SERVICE**

The technical and personal closeness to our customers, and a skilled, straightforward handling of queries and problems, are among our strengths – and will remain so. Consequently, we will continue to expand our service offerings and, indeed, also forge ahead in new directions to persistently redefine the utmost in customer service. Whether on the phone, in the Internet or on-site with our customers – regardless of when and where the expertise of the sensor people is needed at any time.

Info at: **www.leuze.com**



Katrin Rieker,
Sales Methods, Processes, Tools

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, Switches and Proximity Sensors
Safe Control Components
Machine Safety Services

Identification
Bar Code Identification
2D-Code Identification
RF Identification

Data Transmission/
Control Components
MA Modular Connection Units
Data Transmission
Safe Control Components

Industrial Image Processing
Light-Section Sensors
Smart Camera

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Subject to modifications and errors