

SMART
SENSOR
BUSINESS

49C SERIES

AC/DC all mains voltage sensor
with large performance reserves

powerreserve.



OPTIMUM POWER FOR MAXIMUM RELIABILITY

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



powerreserve.

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.

easyhandling.

- **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
- **brightvision 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

powerreserve.

- **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?

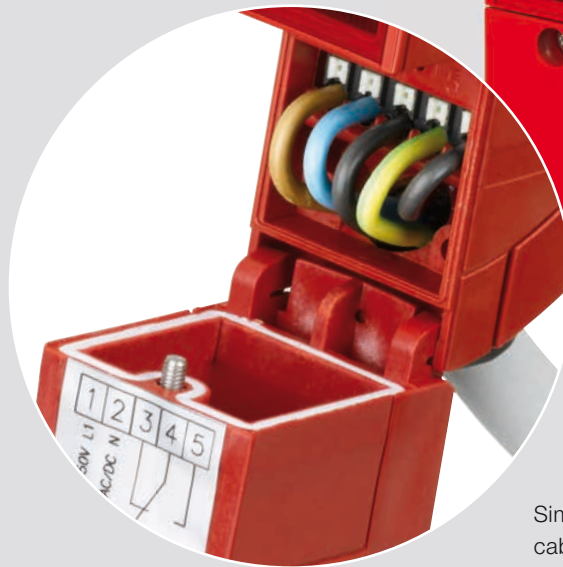
The wiring compartment with clampable connections accessible from the front makes installation very fast and easy. The cable is guided through the device from behind/below at a 45° angle which saves valuable space, e.g., when mounting in confined installation areas or in corners.



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



The innovative 45° cable routing simplifies mounting



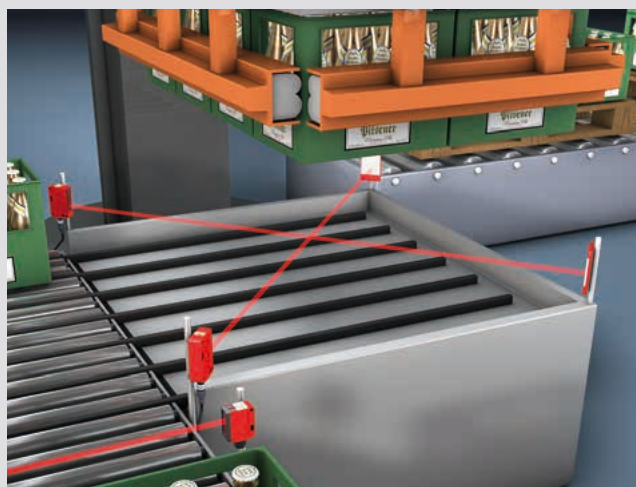
Simply mount the cover and plug in the cable – installation in the innovative terminal compartment can be that easy. No unnecessary contorted movements, no screws and, with the clamp connections, even removal is easy.

OPTIMUM POWER IS CALLED FOR IN EVERY INDUSTRY

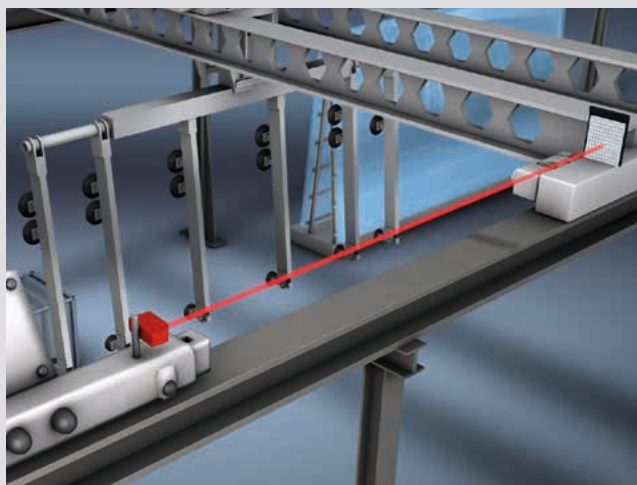
Whether in automatic parking systems and with crane systems where the installation space is very limited, with packaging systems where large operating ranges are needed, or in the wood working industry, in which sensors must work reliably even in the event of soiling – the new 49C handles all tasks without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