

SMART
SENSOR
BUSINESS

46C SERIES

Photoelectric sensors
and light scanners with
maximum function reserve

powerreserve.



MORE RANGE MEETS HIGHER FUNCTION RES

The 46C series shines with many improved functions and helps to significantly improve the reliability and efficiency of your system.

*power*reserve.



A FAMILY WITH THE BEST GENES

With their high function reserves and the large operating ranges of up to 150 m, these sensors are ideally suited for use in conveyor systems, in the wood-processing industry and in special-purpose machinery manufacture.

The highly visible, bright **brightvision**® light spot, an even more readable status LED and the reliable detection of stretch-wrapped objects reduce life-cycle costs in many applications of conveyor and storage systems.

ERVE!

AT LEAST 80% MORE FUNCTION RESERVE SPEAKS FOR ITSELF

Even the predecessor series, the 46B and 96, set new standards. With the newly developed 46C series, we set a new benchmark in terms of reliability and technology. Operating ranges of up to 150 m, further-optimized ambient light suppression **A²LS** and auto performance optimization for reliable detection even with soiling and reflections offer up to 80% more function reserve than the predecessor models, which directly results in a more stable system function and less downtime.

powerreserve.

- Automatic performance optimization for high function reserve
- High operating ranges up to 150 m
- Large adjustment range through multiturn potentiometer
- Very fine adjustment through mechanical adaptation for scanners with background suppression
- Temperature range from -40 °C to +60 °C

thinkmodular.

- Particularly extensive series with devices of all operating principles and special models
- Standard M12 connector or cable connection
- Large variety of fastening options and corner-hole fastening compatibility with the 46B series

easyhandling.

- Immediately ready for use in standard applications, simple adaptation via potentiometer for more demanding uses
- Simple and fast configuration on the device by means of teach-in button or potentiometer
- Bright **brightvision®** light spot for fast and simple alignment
- Indicator LEDs visible from all sides for simple diagnostics and full device control
- High immunity against external light interference through optimized **A²LS** for reliable differentiation between object and background
- High degree of protection IP 67 or IP 69K for rough environmental conditions

Large **brightvision®** light spot



Status LED visible from all sides



Potentiometer or teach button



THROUGHBEAM SENSORS



For maximum functional reliability
and operating range

L 46C

Light source	Red light LED/infrared LED
Operating range limit	150 m
Switching frequency	500 Hz

- Switching state display visible over the entire range
- Robust behavior thanks to optimized beam geometry
- Simple alignment and check of the alignment through SAT 5 alignment aid



For efficient
machine safeguarding

SLS 46C

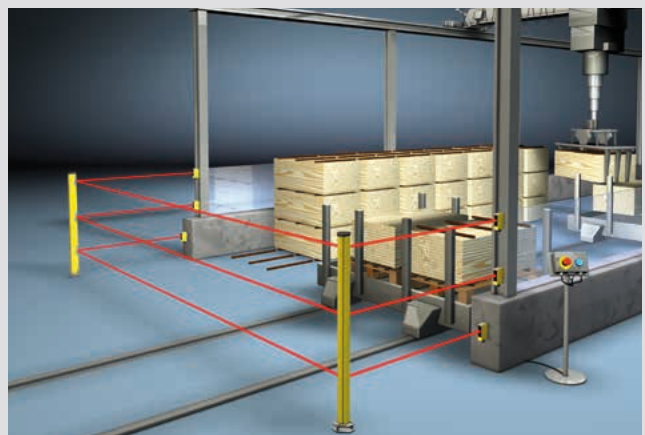
Light source	Red light LED/infrared LED
Operating range limit	48 / 80 m
Switching frequency	250 Hz

- AOPD type 2 and type 4 (with switching module) protective sensor
- Switching state display visible over the entire range
- Robust behavior thanks to optimized beam geometry
- Light Beam Safety Device already complies with EN ISO 13849-1
- Simple alignment and check of the alignment through SAT 5 alignment aid

Gap monitoring on high-bay storage device



Foot-space safeguarding on side-tracking shelf



REFLECTION LIGHT SCANNERS AND LIGHT-BAND SENSORS



Reliable function with small, misadjusted reflectors and heavy soiling
PRK 46C/PRK 46C.D

Light source	Red-light LED
Operating range limit	0.01 – 30 m / 0.1 – 20 m
Switching frequency	500 Hz

- Maximum function reserve
- Reliable object detection with small, mis-adjusted reflectors, large range or heavy soiling
- Optimized for use on roller conveyors
- Reliable function even with stretch-wrapped pallets

Detection of stretch-wrapped objects

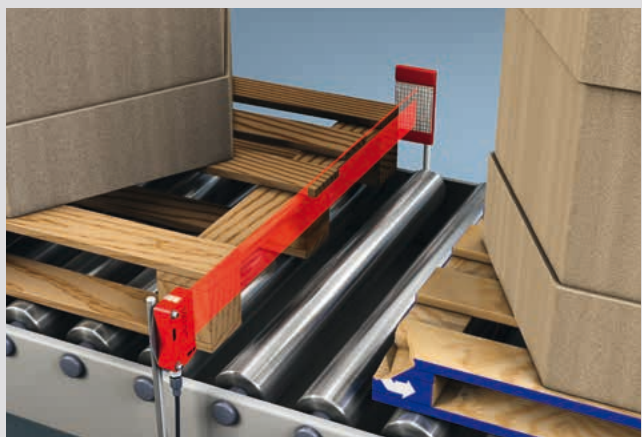


Flexible and variable detection with light-band optics
RK 46C VarOS

Light source	Red-light LED
Operating range limit	0.4 – 5.2 m
Switching frequency	250 Hz

- Different object heights and different pallet shapes and sizes
- Curved or angled object edges
- Protruding or projecting elements on the object
- Objects with cutouts or holes or irregular objects, e.g., meshed containers, damaged pallets (standard sensor delivers multiple signals)

Detection of pallets of different size and condition



DIFFUSE REFLECTION LIGHT SCANNER



For reliable detection of dark and glossy objects

HT 46C

Light source	Red light LED/infrared LED
Operating range limit	0–3 m
Adjustment range	120–2.5 m

- Very high function reserve
- Very small black/white error
- Optimized for glossy, dark objects and large operating range
- Reliable object detection even in "dusty" environments


Object detection on stretch packaging machine



 **IO-Link**

For other demanding applications, our well-known **HRT 46B** light scanners are the right solution

Details on the function and the specifications are available online at www.leuze.com/en/br46b

- Reproducible scanning range adjustment via teach-in in different teach variants 
- Variants with 2 individual switching points
- Scanning range adjustment from control via IO-Link interface
- Comprehensive diagnostic options via IO-Link interface
- Remote teach via cable
- Reference scanner with permanently set scanning range
- Laser devices with narrow beam available 