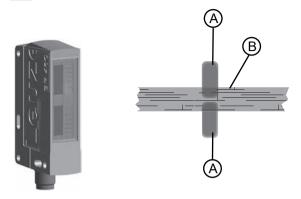
Retro-reflective photoelectric sensor

RK46C VarOS



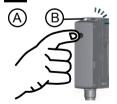




Leuze









Precise alignment of sensor

The special shape and form of the light-band allows precise alignment of the sensor with the object to be detected or with the reflector.

Benefits:

- Maximum utilization of the light-band
- Reliable detection even with shocks/vibrations

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Α	Light-band
В	Object

Alignment: Align the center of the light-band centrally to the object and the reflector.



Reliable detection of different objects and objects with cutouts and openings, for example pallets with:

- Different heights
- Protruding boards
- damage

Teach procedure for sensor

NOTICE



It is essential to teach the sensor before it is used for the first time! The sensor is factory-set to the maximum operating range.

Before starting the teach procedure, align the light-band of the sensor with the center of the object and reflector.

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Sensors with standard resolution (RK46C.DXL3...)

	Teach		
Sensor sensitivity	Standard	Increased	
Switching behavior	Sensor switches when 28 % of light-band is covered by object. Sensor switches when 28 % of light-band is ered by object.		
Typical application	Reliable detection of pallets	Detection of pal- with openings/transparent objects	

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Setting	A	B
	Clear light path to reflector.	Clear light path to reflector.
	 Press teach button (2 to 7 s) until both LEDs (green/yellow) flash synchronously. Release teach button. 	 ♥ Press teach button (7 to 12 s) until both LEDs (green/yellow) flash alternately. ♥ Release teach button.
Acknowledgment	Teach successful: Both LEDs (green/yellow) remain lit. Teach not successful: Yellow LED flashes. Repeat teach procedure.	

Sensors with high resolution (RK46C.DXL3P2...)

	Teach		
Sensor sensitivity	Standard	Reduced	
Switching behavior	Sensor switches when 11 % of light-band is covered by object.	Sensor switches when 14 % of light-band is cov- ered by object.	
Typical application	Reliable detection of objects with a diameter of ≥ 2mm		
Setting	A	B	
	Clear light path to reflector. Press teach button (2 to 7 s) until both LEDs (green/yellow) flash synchronously. Release teach button.	Clear light path to reflector. Press teach button (7 to 12 s) until both LEDs (green/yellow) flash alternately. Release teach button.	
Acknowledgment	Teach successful: Both LEDs (green/yellow) remain lit.		
	Teach not successful: Yellow LED flashes. teach procedure.		



Easy tune - Fine adjustment of sensor sensitivity (switching threshold)



Easy tune allows you to adjust the sensor sensitivity in small steps using the teach button during normal operation.

Increase sensitivity (reduce switching threshold)	 Press teach button briefly (2 ms 200 ms). ⇒ The sensitivity is increased slightly and switching threshold is reduced slightly. 	The sensor confirms button actuation by brief illumination (1x flash) of both LEDs (green/yellow).
Reduce sensitivity (increase switching threshold)	 Press and hold down teach button (200 ms 2s). ⇒ The sensitivity is reduced slightly and switching threshold is increased slightly. 	

If the upper or lower end of the adjustment range is reached, both LEDs flash at a much higher frequency.

Light/dark switching – Adjustment of switching behavior of switching outputs

The valley LED indicates the surrent action



switching	of the switching outputs. ON = OUT 1 light switching output, OUT 2 dark switching output OFF = OUT 1 dark switching output, OUT 2 light switching output Press teach button (> 12 s) until green LED flashes.	(A) B: Yellow LED