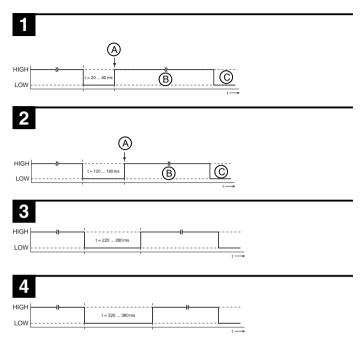
Leuze

Retro-reflective photoelectric sensor

PRK53CA Autokollimation PRK55CA Autokollimation









Sensor adjustment (teach) via teach button

The sensor is factory-adjusted for maximum operating range. The teach procedure is only necessary if the sensor does not switch when an object enters the light beam.

(1) Standard teach (low sensitivity)		(2) Sensitive teach (increased sensitiv- ity)			
Clear the light path before teaching!					
1	Hold down the teach button (2 to 7 s) until the yellow and green LEDs flash simultaneously.	1	Hold down the teach button (7 to 12 s) until the yellow and green LEDs flash alternately.		
2	Release teach button – ready.	2	Release teach button – ready.		
The sensor switches when approx. half of the light beam is covered by the ob- ject.		Unlike the standard teach mode, the sensor switches when a considerably smaller part of the light spot is covered.			
	Device settings are stored fail-safe.				

(3) Teach at max. operating range (fac- tory setting)		(4) Set switching behavior (light/dark switching)			
Obstruct the light path before teaching!		When the function is activated, the switching output is inverted relative to the previously set state.			
1	Hold down the teach button (2 to 7 s) until the yellow and green LEDs flash simultaneously.	1	Hold down the teach button longer than 12 s until only the green LED flashes.		
2	Release teach button – ready.	2	Release teach button – ready.		
	e sensor now operates with the maxi- m function reserve/operating range.	atii Aft lov ha the Sw Sw Sw Nc Th sw	e yellow LED is not dependent on the itching behavior setting and always licates the light path in normal opera-		
	Device settings are stored fail-safe.				

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Sensor adjustment (teach) via teach input (pin 2)

This device setting is only available for sensors in the PRK53C.A3/...T... or PRK55C.A3/...T... variant.

	NOTICE
A	The following description applies to PNP switching logic!
	Signal level LOW ≤ 2V
	Signal level HIGH ≥ (U _B -2V)
	With the NPN models, the signal levels are inverted!



Standard teach (low sensitivity)

- A Standard teach (low sensitivity) is performed
- B Teach button is locked
- C Teach button may now be operated again



Sensitive teach (increased sensitivity)

- A Sensitive teach (increased sensitivity) is performed
- B Teach button is locked
- C Teach button may now be operated again



Dark switching logic

Switching outputs are dark switching, i.e., outputs are active, when there is an object currently in the light path.

With antivalent switching outputs: OUT 1 (pin 4) dark switching, OUT 2 (pin 2) light switching.



Light switching logic

Switching outputs are light switching, i.e., outputs are active, when there is no object currently in the light path.

With antivalent switching outputs: OUT 1 (pin 4) light switching, OUT 2 (pin 2) dark switching.



Locking the teach button via the teach input

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This device setting is only available for sensors in the PRK53C...A3/...T... or PRK55C...A3/...T... variant (teach input via pin 2).

A static high signal (≥ 20 ms) at the teach input locks the teach button on the sensor if required, such that no manual operation is possible (e.g., protection from erroneous operation or manipulation).

If the teach input is not connected or if there is a static low signal, the button is unlocked and can be operated freely.