Remarks

Observe intended use!
⇨ This product is not a safety sensor and is not intended as personnel protection.
⇨ The product may only be put into operation by competent persons.
⇨ Only use the product in accordance with the intended use.

- You can find **detailed information** for your sensor at **www.leuze.com**
  Enter the **"part no."** for your sensor in the **"Enter search term"** field and click on the desired sensor in the search result list. The detailed information for your sensor and for the available downloads is displayed.
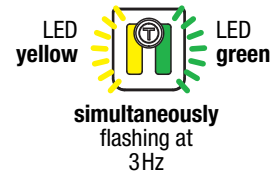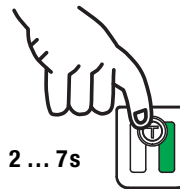
Teach-in method

Teach	Operating level 1	Operating level 2
Standard Teach	**Teach on object:** During this teach event, the object is located in front of the sensor. The switching threshold is set by the teach so that the object is detected with a tight signal reserve **R**. Thus, the object is detected even if the distance increases by the value **r** with respect to the distance during the teach.	**Teach on background:** This teach is only suitable for applications with a fixed background. The teach is performed directly on the background without an object. The switching threshold is set to a value that is just above the background signal (signal reserve **R**). Thus, objects can be detected up to a distance of **r** in front of the background.

Sensor — Switching output — r

	A	Signal - object
	B	Teach on object
	C	Switching threshold

Performance reserve — Distance

Sensor — Switching output — r

	A	Signal - background
	B	Teach on background
	C	Switching threshold

Performance reserve — Distance

Operation via teach button

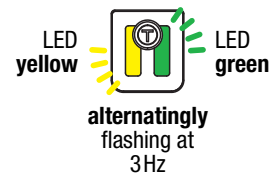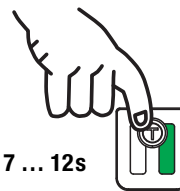**Teach in operating level 1**
- Press teach button until both LEDs flash **simultaneously**.
- Release teach button.
- Ready.

2 … 7s

LED **yellow** — LED **green**
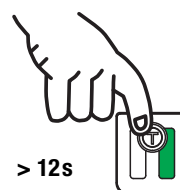
simultaneously flashing at 3 Hz

Teach in operating level 2
- Press teach button until both LEDs flash **alternatingly**.
- Release teach button.
- Ready.

7 … 12s

LED **yellow** — LED **green**
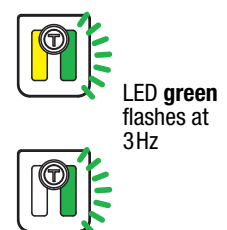
alternatingly flashing at 3 Hz

Adjusting the switching behavior of the switching output – light/dark switching

This function permits inversion of the sensors' switching logic.

- Press teach button until only the green LED flashes.
  The yellow LED then indicates the toggled switching logic:

  ON = switching outputs light switching
  (in the case of complementary sensors, Q1 (pin 4) light switching, Q2 (pin 2) dark switching), this means output active when object is detected.

  OFF = switching outputs dark switching (in the case of complementary sensors, Q1 (pin 4) dark switching, Q2 (pin 2) light switching), this means output inactive when object is detected.
- Release teach button.
- Ready.

> 12s

LED **yellow**

ON = **light switching**

OFF = **dark switching**

LED **green** flashes at 3 Hz