Leuze electronic

Throughbeam photoelectric sensors
Retro-reflective photoelectric sensors
Diffuse sensors with background suppression

SR49C

We reserve the right to make changes – 2019/08/23 – 50143043

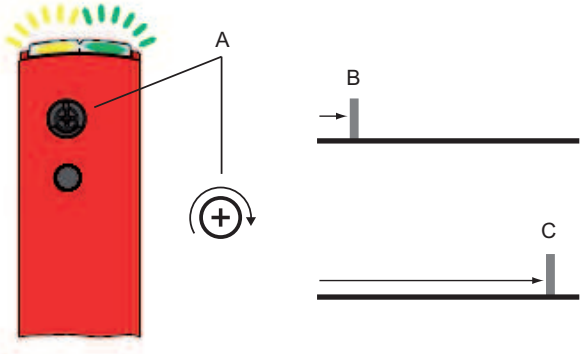
ПРОМЭЛЕКТРОНИКА / sales@prom-elec.com

Leuze electronic GmbH + Co. KG In der Braike 1 D-73277 Owen Tel.: +49 (0) 7021 573-0
info@leuze.com • www.leuze.com

1

2

3



Teach of the sensors with transistor output

Factory setting

- *Light switching*
- *Time module not active*

1

Light/dark switching

Teach level 1: Configuration of the switching behavior

- Hold down the teach button (2 to 7 s) until the yellow and green LEDs flash **synchronously**.
- Release teach button – switchover is complete.

The yellow LED indicates the current setting of the switching output for 3 s:

- Yellow LED *ON* = Light switching:
  Output **OUT1** light switching (terminal 3)
  Output **OUT2** dark switching (terminal 4)
- Yellow LED *OFF* = Dark switching:
  Output **OUT1** dark switching (terminal 3)
  Output **OUT2** light switching (terminal 4)

2

Activation/deactivation of the time module

Teach level 2: Configuration of the slow release

Slow release: if the object is no longer present, the output switches with a time delay.

- Hold down the teach button (7 to 12 s) until the yellow and green LEDs flash **alternately**.
- Release teach button – activation/deactivation is complete.

The yellow LED indicates the current setting of the slow release for 3 s:

- Yellow LED *ON* = Time module not active - no slow release
- Yellow LED *OFF* = Time module active – slow release: 500 ms*

  *****: other models on request

ПРОМЭЛЕКТРОНИКА / sales@prom-elec.com

Teach of the sensors with relay output

Factory setting

- *Light switching*
- *Time module not active*

1

Light/dark switching

Teach level 1: Configuration of the switching behavior of the relay output

- Hold down the teach button (2 to 7 s) until the yellow and green LEDs flash **synchronously**.
- Release teach button – switchover is complete.

The yellow LED indicates the current setting of the switching output for 3 s:

- Yellow LED *ON* = Light switching:
  Output between **PIN 4** and **PIN 3: NC contact**
  Output between **PIN 4** and **PIN 5: NO contact**
- Yellow LED *OFF* = Dark switching:
  Output between **PIN 4** and **PIN 3: NO contact**
  Output between **PIN 4** and **PIN 5: NC contact**

2

Activation/deactivation of the time module

Teach level 2: Configuration of the slow release of the relay output

Slow release: if the object is no longer present, the output switches with a time delay.

- Hold down the teach button (7 to 12 s) until the yellow and green LEDs flash **alternately**.
- Release teach button – activation/deactivation is complete.

The yellow LED indicates the current setting of the slow release for 3 s:

- Yellow LED *ON* = Time module not active - no slow release of the relay
- Yellow LED *OFF* = Time module active – slow release of the relay: 500 ms*
  *****: other models on request

Teach of the sensors with MOSFET output

Factory setting

- *Light switching*
- *Time module not active*

1

Light/dark switching

Teach level 1: Configuration of the MOSFET switching behavior

- Hold down the teach button (2 to 7 s) until the yellow and green LEDs flash **synchronously**.
- Release teach button – switchover is complete.

The yellow LED indicates the current setting of the switching output for 3 s:

- Yellow LED *ON* = Light switching:
  Output between **PIN 4** and **PIN 5: NO contact**
- Yellow LED *OFF* = Dark switching:
  Output between **PIN 4** and **PIN 5: NC contact**

2

Activation/deactivation of the time module

Teach level 2: Configuration of the MOSFET slow release

Slow release: if the object is no longer present, the output switches with a time delay.

- Hold down the teach button (7 to 12 s) until the yellow and green LEDs flash **alternately**.
- Release teach button – activation/deactivation is complete.

The yellow LED indicates the current setting of the slow release for 3 s:

- Yellow LED *ON* = Time module not active - no slow release of the MOSFET output.
- Yellow LED *OFF* = Time module active – slow release of the MOSFET output: 500 ms*
  *: other models on request

Setting the operating range

	NOTICE
	For devices with operational controls on the rear side of the device

Throughbeam photoelectric sensors
Retro-reflective photoelectric sensors

3

A	270° potentiometer for setting the operating range Left limit stop of 270° potentiometer – minimum operating range (B) Right limit stop of 270° potentiometer – maximum operating range (C)
B	Minimum operating range
C	Maximum operating range

↳ To set the operating range, turn the 270° potentiometer (A). The maximum operating range is set at the right limit stop of the 270° potentiometer.

Diffuse sensors with background suppression

3

A	Multiturn potentiometer for configuration of the operating range 0 turns of multiturn potentiometer – minimum operating range (B) 8 turns of multiturn potentiometer – maximum operating range (C)
B	Minimum operating range
C	Maximum operating range

↳ To configure the operating range, turn the multiturn potentiometer (A). The maximum operating range is set after eight turns of the multiturn potentiometer.