

### /// 3 series



The versatile range of models in the 3 series enables use in a variety of applications, such as in packaging technology, handling technology and productronics. In their performance class, these sensors offer the greatest range of features of all competitors and impress with large ranges and improved function reserves. Refined technologies for spurious and extraneous light suppression and for fast alignment and commissioning round out the advantages.



## Throughbeam sensors

Reliable, standard photoelectric sensors with large function reserves and simple commissioning.

### LSR 3B

The LSR3B throughbeam photoelectric sensor offers reliable object detection independent of the environmental conditions. The transmitter is optionally available with activation input of the receiver with warning output for increased availability.

#### Benefits:

- High function reserve
- Transmitter with small, homogeneous light spot by means of pin-point LED
- Transmitter optionally with activation input
- Warning output (optional for the receiver) for increased availability

Part no.	Part description	Operating range [m] Op. range limit [m]	Light source	Connection	Description
50108508	► LSSR 3B-S8	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Connector, M8, 4-pin, metal	DC
50108514	◄ LSER 3B/66-S8	0.05 ... 8.5 m 0.05 ... 10 m		Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50108515	◄ LSER 3B/66.1-S8	0.05 ... 8.5 m 0.05 ... 10 m		Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC, 270 ° potentiometer
50108509	► LSSR 3B.8-S8	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Connector, M8, 4-pin, metal	DC, activation input
50108517	◄ ILSER 3B/4-S8	0.05 ... 8.5 m 0.05 ... 10 m		Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, U <sub>e</sub> switching, DC, warning output
50108514	◄ LSER 3B/66-S8	0.05 ... 8.5 m 0.05 ... 10 m		Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50111440	► LSSR 3B,200-S12	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	DC
50111442	◄ LSER 3B/66,200-S12	0.05 ... 8.5 m 0.05 ... 10 m		Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50111441	► LSSR 3B.8,200-S12	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	DC, activation input
50111442	◄ LSER 3B/66,200-S12	0.05 ... 8.5 m 0.05 ... 10 m		Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC

► transmitter / ◄ receiver

Part no.	Part description	Operating range [m] Op. range limit [m]	Light source	Connection	Description
50108512	► LSSR 3B.8,200-S8	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Cable with connector, 200 mm, M8, 4-pin, plastic	DC, activation input
50108518	◄ ILSER 3B/4,200-S8	0.05 ... 8.5 m 0.05 ... 10 m		Cable with connector, 200 mm, M8, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, PNP, light switching; Digital switching output 2: transistor, PNP, U <sub>0</sub> switching, DC, warning output
50108511	► LSSR 3B.8,5000	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Cable, 5,000 mm, 4-wire	DC, activation input
50111732	◄ LSER 3B/44.1,5000	0.05 ... 8.5 m 0.05 ... 10 m		Cable, 5,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, PNP, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, PNP, dark switching (PNP)/light switching (NPN), DC, 270 ° potentiometer
50108519	◄ LSER 3B/66,5000	0.05 ... 8.5 m 0.05 ... 10 m		Cable, 5,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50108510	► LSSR 3B.8	0.05 ... 8.5 m 0.05 ... 10 m	LED, red	Cable, 2,000 mm, 4-wire	DC, activation input
50108519	◄ LSER 3B/66,5000	0.05 ... 8.5 m 0.05 ... 10 m		Cable, 5,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50108516	◄ LSER 3B/66	0.05 ... 8.5 m 0.05 ... 10 m		Cable, 2,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC

► transmitter / ◄ receiver

## Retro-reflective sensors

In this area you will find a wide range of sensors that function according to the reflection principle including special sensors for the detection of transparent media, sensors for extremely small components or for combination with a polished, metallic surface as reflector.

### PRK 3B

Reliable sensor with a high function reserve primarily for small, misaligned reflectors and environments with heavy soiling.

#### Benefits:

- Reliable object detection with small, mis-adjusted reflectors
- Reliable object detection with large range
- Reliable object detection with heavy soiling

Part no.	Part description	Operating range [m] Op. range limit [m]	Light source	Connection	Description
50104694	PRK 3B/66-S8	0.02 ... 5 m 0.02 ... 6 m	LED, red	Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50106078	PRK 3B/66.1-S8	0.02 ... 5 m 0.02 ... 6 m	LED, red	Connector, M8, 4-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC, 270 ° potentiometer
50104698	PRK 3B/6.7-S8	0.02 ... 5 m 0.02 ... 6 m	LED, red	Connector, M8, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching, DC
50106865	PRK 3B/6D.7-S8	0.02 ... 5 m 0.02 ... 6 m	LED, red	Connector, M8, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, dark switching, DC
50109581	PRK 3B/6-S8.3	0.02 ... 5 m 0.02 ... 6 m	LED, red	Connector, M8, 3-pin, metal	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching, DC
50104696	PRK 3B/66,200-S12	0.02 ... 5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M12, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50104695	PRK 3B/66,200-S8	0.02 ... 5 m 0.02 ... 6 m	LED, red	Cable with connector, 200 mm, M8, 4-pin, plastic	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50104697	PRK 3B/6.7	0.02 ... 5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching, DC
50104693	PRK 3B/66	0.02 ... 5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC
50118016	PRK 3B/66.1	0.02 ... 5 m 0.02 ... 6 m	LED, red	Cable, 2,000 mm, 4-wire	Switching frequency: 1,000 Hz; Digital switching output 1: transistor, push-pull, light switching (PNP)/dark switching (NPN); Digital switching output 2: transistor, push-pull, dark switching (PNP)/light switching (NPN), DC

Detailed information on operating ranges in combination with reflectors can be found in the respective data sheet (online)