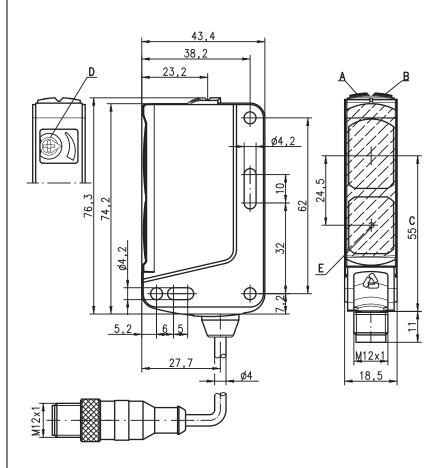
## **LSR 46B**

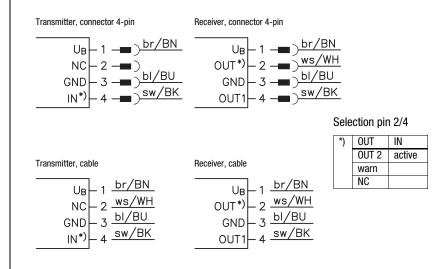
## Throughbeam photoelectric sensor with alignment indicator

### **Dimensioned drawing**



- Green indicator diode Α
- В Yellow indicator diode
- С Optical axis
- D Optional sensitivity adjustment (only at receiver)
- Е Indicator diode for alignment control

## **Electrical connection**





տոտ 60 m 500 Hz



10 - 30 V

Throughbeam photoelectric sensor with

- visible red light
- Fast alignment through brightVision®
- Indicator for fast, precise alignment •
- Push-pull switching outputs •
- Sensitivity adjustment •
- Warning output - for increased availability
- Further options for adapting to the respec-• tive application



### Accessories:

(available separately)

- Mounting systems (BT 46, BT 46.1, BT 46.1.5, BT 46.2)
- M12 connectors (KD ...)
- Ready-made cables (K-D ...)

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• Alignment aid (SAT 5)

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Tables

0

## LSR 46B

50 60

### **Specifications**

#### **Optical data**

Typ. operating range limit <sup>1)</sup> Operating range <sup>2)</sup> Light source <sup>3)</sup> Wavelength

#### Timing

Switching frequency Response time Delay before start-up

#### Electrical data

## With transistor switching outputs $\mbox{Operating voltage U}_{B}^{\ 4)}$

Residual ripple Open-circuit current Switching output <sup>5)</sup> LSR .../66.1

ILSR .../4.8 Signal voltage high/low Output current

#### Indicators

Green LED Yellow LED Yellow LED, flashing

#### Mechanical data

Housing Optics cover Weight (with connector/with cable and conn.) Connection type

ILSR .../4

#### **Environmental data**

Ambient temp. (operation/storage) Protective circuit <sup>6)</sup> VDE safety class <sup>7)</sup> Protection class LED class Standards applied Certifications

#### Options

**Warning output autoControl** Signal voltage high/low Output current **Activation input** active Transmitter active/not active Activation/disable delay Input resistance 60m 50m LED (modulated light) 620nm (visible red light, polarized)

500 Hz 1 ms ≤ 300 ms

ready light path free light path free, no performance reserve

plastic (PC-ABS) plastic (PMMA) 50g/65g M12 connector, or cable with M12 connector, cable length: 200mm

-40 °C ... +60 °C/-40 °C ... +70 °C 2, 3 II, all-insulated IP 67, IP 69K 1 (acc. to EN 60825-1) IEC 60947-5-2 UL 508  $^{4)}$ 

PNP transistor, counting principle  $\geq (U_B - 2V)/\leq 2V$  max. 100mA

 $\begin{tabular}{l} \ge 8V\!\!\!/\le 2V \\ \le 1\,ms \\ 10k\Omega \pm 10\,\% \end{tabular} \end{tabular} \end{tabular}$ 

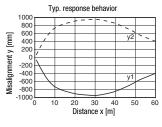
- 1) Typ. operating range limit: max. attainable range without performance reserve
- 2) Operating range: recommended range with performance reserve
- 3) Average life expectancy 100,000 h at an ambient temperature of 25 °C

4) For UL applications: for use in class 2 circuits only5) The push-pull switching outputs must not be connected in parallel

6) 2=polarity reversal protection, 3=short-circuit protection for all transistor outputs

Rating voltage 50V

### Diagrams



### y2 y2 y1

## Remarks

A light axis consists of a transmitter and a receiver with the following designations:

(I)LSR = complete light axis LSSR = transmitter (I)LSER = receiver

- Approved purpose: This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.
- Alignment indicator: ('E' see dimensioned drawing)
  Yellow LED = light path free with reserve
  Yellow LED, flashing = light path free - no performance reserve

## LSR 46B

## Throughbeam photoelectric sensor with alignment indicator

### **Order guide**

The sensors listed here are preferred types; current information at www.leuze.com.

	Desta settere	D. J. J.
	Designation	Part no.
With M12 connector		
Complementary switching output	LSSR 46B-S12	50108526 (Tr)
	LSER 46B/66-S12	50108532 (R)
Activation input, complementary switching output	LSSR 46B.8-S12	50108527 (Tr)
	LSER 46B/66-S12	50108532 (R)
Warning output, display low performance reserve	LSSR 46B-S12	50108526 (Tr)
	ILSER 46B/4-S12	50108536 (R)
Sensitivity adjustment, complementary switching output	LSSR 46B-S12	50108526 (Tr)
	LSER 46B/66.1-S12	50108533 (R)
Cable with M12 connector		
Complementary switching output	LSSR 46B,200-S12	50108528 (Tr)
	LSER 46B/66,200-S12	50108534 (R)
Cable, cable length 2m		
Complementary switching output	LSSR 46B	50108529 (Tr)
	LSER 46B/66	50108535 (R)

## Type key

		L S E R	4 6 B	/ 6 6	D	. 1	- S 1 2
Operating	principle						
LSSR	Throughbeam photoelectric sensor, transmitter with light visible red light						
LSER	Throughbeam photoelectric sensor, receiver						
ILSER	Throughbeam photoelectric sensor, receiver with warning output						
Series							
46B	46B Series						
Switching	output						
/66	Complementary push-pull switching outputs						
/4	Pin 4 PNP switching output, pin 2 no contact or warning output						
Function	characteristics						
N/A	Pin 4 light switching; with push-pull, PNP light switching						
D	Inverted switching logic						
Special fu	nction						
.8	Activation input (on transmitter)					-	
.1	Sensitivity adjustment (on receiver)						
Electrical	connection						
N/A	Cable, standard length 2000mm						

N/A	Cable, standard length 2000 mm
,200-S12	Cable, length 200 mm with M12 connector
-S12	M12 connector

## LSR 46B

## Asia

联系方式

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