# LS 97/4D.E-S12.Y1

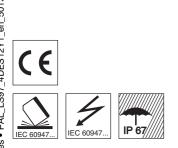


4m

# en 01-2018/09 50138087

10 - 30 V <u>DC</u>

- Receiver with high resolution
- Together with LSSRL 8-S12.Y1 forms a light curtain with a detection range of approx. 12 mm
- Small construction with glass cover and robust metal housing for protection against environmental influences
- Connection via M12 connector
- Additional indicator diode on the front part (for exact alignment)



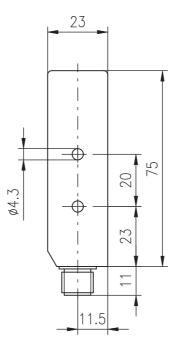
#### **Accessories:**

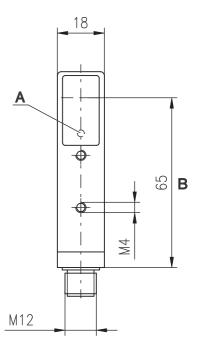
(available separately)

- M12 connectors (KD ...)
- Ready-made cables (KD ...)

Throughbeam photoelectric sensor receiver

## **Dimensioned drawing**

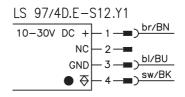




A Indicator diode

B Optical axis

# **Electrical connection**



We reserve the right to make changes • PAL\_LS97\_4DES12Y1\_en\_50138087.fm

# ▲ Leuze electronic

## LS 97/4D.E-S12.Y1

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### **Tables**

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<b>Dptical data</b> Typ. operating range limit <sup>1)</sup> Operating range <sup>2)</sup> Light source transmitter Wavelength transmitter Detection range Resolution	0 4.0m 0 3.0m Laser class 2 655nm (visible red light) approx. 12mm ≥ 6mm diameter (object size)	LS 97/4D.E-S12.Y1  O Operating range [m] Typ. operating range limit [m]
<b>Fiming</b> Switching frequency Response time Delay before start-up	200Hz 2.5ms ≤ 100ms	
Electrical data Operating voltage U <sub>B</sub> Residual ripple Bias current Switching output Function characteristics Signal voltage high/low Output current Sensitivity	10 30VDC (incl. residual ripple) $\leq$ 15% of U <sub>B</sub> $\leq$ 40mA PNP transistor output dark switching $\geq$ (U <sub>B</sub> -2V)/ $\leq$ 2V max. 100mA permanently set	
<b>ndicators</b> LED yellow LED yellow flashing	light path free light path free, no performance reserve	
Mechanical data Housing Optics cover Weight Connection type	diecast zinc glass 85g M12 connector 4-pin, stainless steel	Diagrams
Environmental data Ambient temp. (operation/storage) Protective circuit <sup>3)</sup> safety class Protection class Standards applied	-20°C +60°C/-30°C+70°C 2, 3 III IP 67 IEC 60947-5-2	
<ol> <li>Typ. operating range limit: max. attainable range</li> <li>Operating range: recommended range with period</li> <li>2=polarity reversal protection, 3=short-circuit period</li> </ol>	formance reserve	

## Order guide

**Specifications** 

LED yellow LED yellow flashing Mechanical data Housing Optics cover Weight Connection type **Environmental data** 

**Electrical data** 

**Optical data** 

Timing

	Designation	Part no.
With M12 connector Receiver	LS 97/4D.E-S12.Y1	50137742
Dedicated Transmitter	LSSRL 8-S12.Y1	50137743

## **Remarks**

Operate in accordance with intended use!	
Shis product is not a safety sensor	
and is not intended as personnel	
protection.	
Solution The product may only be put into	
operation by competent persons.	
Only use the product in accor-	
dance with the intended use.	