Throughbeam ultrasonic sensor

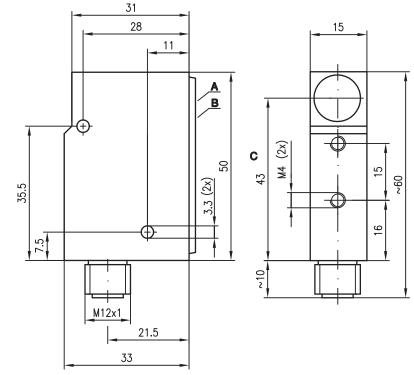
LSU 18



0 ... 650mm

- Color and transmission independent detection of objects even in humid and foggy environment
- Optimized for air transport systems
- Metal housing
- Insensitive to dust
- Detection of narrow gaps

Dimensioned drawing



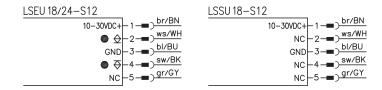
- A Indicator diodes
- **B** Sensitivity adjustment
- C Center of ultrasonic transducer

Accessories:

(available separately)

- Mounting systems
- Cable with M12 connector (K-D ...)

Electrical connection



LSU 18

Technical data

Ultrasonic specifications

Operating range ¹⁾
Adjustment range
Ultrasonic frequency Typ. opening angle

Time behavior Switching frequency Readiness delay

Electrical data

Operating voltage U_B Residual ripple Open-circuit current Switching output Function Output current Switch positions

Indicators Green LED Yellow LED Mechanical data

Housing Transducer Weight Connection type Installation position

Environmental data

Ambient temp. (operation/storage) Protective circuit ²⁾

VDE protection class Degree of protection Standards applied

0 ... 650mm

0 ... 650mm in increments 300kHz

Max. 100 Hz 100 ms

10 ... 30 V DC (incl. \pm 10% residual ripple) \pm 10% of U_B Receiver \leq 15mA, transmitter \leq 55mA 1 PNP and 1 NPN transistor Object detected Max. 150mA Position 1 ... 5, see tables

Ready Object detected

Metal see Remarks 70g each M12 connector, 5-pin Any

0°C ... +70°C/-40°C ... +85°C 1, 2, 3

ШĹ **IP 65**

IEC 60947-5-2

1) Throughout the entire temperature range, measurement object ≥ 20x20mm

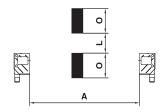
1=short-circuit and overload protection, 2=polarity reversal protection (not analog), 3=wire break and inductive

Order guide

Designation Part no. Transmitter LSSU 18-S12 50103365 Receiver LSEU 18/24-S12 50103364

Tables

_	Switching frequency [Hz]	Typical values		
Switch position		A _{max}	O _{min} [mm]	L _{min} [mm]
1	100	250	20	1
2	100	350	30	1
3	50	450	40	1
3 4 5	50 50 50	450 550	40 50	1 1 2



O Object

L Gap

A Distance transmitter/receiver

Diagrams

Notes

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 intended as personnel protection.

- The response behavior depends on the container shape.
- Not suitable for use in humid environments. Avoid cleaning with cleaning agents.