LSU 18

Throughbeam ultrasonic sensor

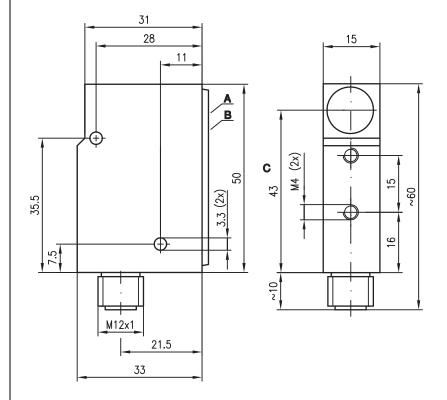




0 ... 650 mm



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



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

Dimensioned drawing











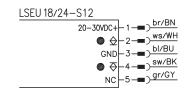


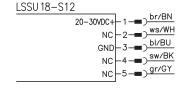
Accessories:

(available separately)

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

Electrical connection





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Specifications

Ultrasonic specifications

Operating range 1) 0 ... 650mm
Adjustment range 0 ... 650mm in steps
Ultrasonic frequency 300kHz
Typ. opening angle 12°

Timing

Switching frequency max. 100Hz Delay before start-up max. 100Hz

Electrical data

Indicators

Green LED ready
Yellow LED object detected

Mechanical data

Housing metal
Transducer see remarks
Weight 70g each
Connection type M12 connector, 5-pin

Environmental data

Ambient temp. (operation/storage)

Protective circuit ²⁾

VDE safety class

Protection class

Standards applied

O°C ... +70°C/-40°C ... +85°C

1, 2, 3

III

Profection class

IP 65

Standards applied

Fitting position any

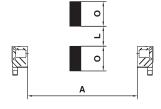
For the complete temperature range, measured object ≥ 20x20mm
 1=short-circuit and overload protection, 2=polarity reversal protection (not for analogue inputs), 3=wire break and inductive protection

Order guide

	Designation	Part No.
With M12 connector	LSU 18/24-S12	
Transmitter	LSSU 18-S12	501 03365
Receiver	LSEU 18/24-S12	501 03364

Tables

_	uency [Hz]	Typical values		
Switch position	Switching frequency [Hz]	A _{max}	O _{min}	L _{min}
				111111111
1	100	250	20	[mm] 1
1 2		,		1 1
	100	250	20	1 1 1 1
2	100 100	250 350	20 30	1 1 1 1



- O Object
- L Gap
- A Distance transmitter/receiver

Diagrams

Remarks

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.

- The response behaviour is dependent on the container shape.
- Not suitable for use in wet environments. Avoid cleaning with cleaning agents.

LSU 18 ... - 05 2011/02