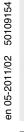
LSU 18

Throughbeam ultrasonic sensor



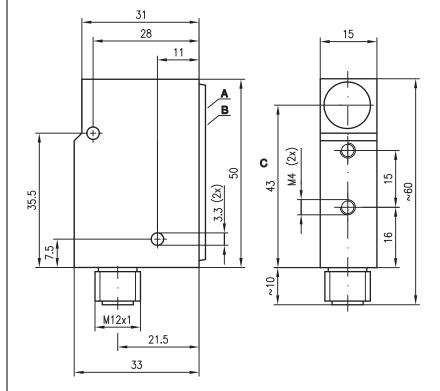




0 ... 650mm



- 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



- Indicator diodes
- Sensitivity adjustment
- Centre of ultrasonic transducer

Dimensioned drawing





ISO

9001



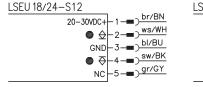
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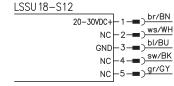


(available separately)

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

Electrical connection





LSU 18

Specifications

Ultrasonic specifications

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

Timing

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

Electrical data

10 ... 30V DC (incl. \pm 10% residual ripple) \pm 10% of U_B receiver \le 15mA, transmitter \le 55mA 1 PNP and 1 NPN transistor Operating voltage U_B Residual ripple Bias current Switching output Function characteristics Output current object detected max. 150mA Switch positions positions 1 ... 5, see Tables

Indicators

Green LED Yellow LED ready object detected

Mechanical data

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

Environmental data

0°C ... +70°C/-40°C ... +85°C 1, 2, 3 III Ambient temp. (operation/storage) Protective circuit ²⁾ VDE safety class Protection class IP 65 Standards applied IEC 60947-5-2 Fitting position any

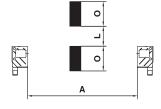
 For the complete temperature range, measured object ≥ 20x20mm
1=short-circuit and overload protection, 2=polarity reversal protection (not for analogue inputs), 3=wire break and inductive protection

Order quide

	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} [mm]	L _{min} [mm]
1	100	250	20	1
2	100	350	30	1
3	50	450	40	1
4	50	550	50	1
5	50	650	50	2



- 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