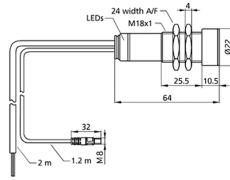


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scale drawing

detection zone



2 x pnp

working range	papers with weights of 100 - 2,000 g/m ² , plastic sheets and films up to 5 mm thick*, self-adhesive films, sheet metals up to 2 mm thick*, corrugated card, wafers, PCBs (*: material-dependent)
design	cylindrical M18
operating mode	double sheet control
particularities	receiver für ultrasonic-double sheet control distance between transmitter and receiver can be selected

ultrasonic -specific

means of measurement	pulse operation with amplitude evaluation
transducer frequency	200 kHz
blind zone	7 mm in front of transmitter and receiver

electrical data

operating voltage U _B	20 - 30 V d.c., reverse polarity protection
voltage ripple	± 10 %
Leerlaufstromaufnahme	≤ 50 mA
type of connection	2 m PUR cable, 7 x 0.25 mm ²
transmitter cable	1.2 m PUR cable with M8 initiator plug

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outputs

output 1	double sheet output npn: $I_{\max} = 200 \text{ mA}$ ($U_B - 2V$) NOC/NCC adjustable, short-circuit-proof
output 2	missing sheet output pnp: $I_{\max} = 200 \text{ mA}$ ($U_B - 2V$) NOC/NCC adjustable, short-circuit-proof
response time	< 500 μs im Trigger-Mode, 5,5 ms im Free-Run-Mode
delay prior to availability	< 300 ms

inputs

description	< $-U_B + 18 \text{ V}$: logic 1; > $-U_B + 13 \text{ V}$ or control input open: logic 0
input 1	control input
input 2	control input
input 3	control input

housing

transmitter/receiver spacing	30 - 70 mm; optimal: 50 mm \pm 3 mm
permissible angular deviation	$\pm 45^\circ$ from the perpendicular to the sheet
material	brass sleeve, nickel-plated, plastic parts, PBT, PA
ultrasonic transducer	polyurethane foam, epoxy resin with glass contents
max. tightening torque of nuts	15 Nm
class of protection to EN 60529	IP 65
operating temperature	+5°C to +60°C
storage temperature	-40°C to +85°C

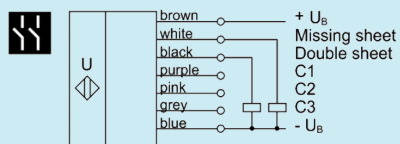
technical features/characteristics

controls	control input
scope for settings	Teach-in LCA-2 with LinkCopy or LinkControl software
indicators	1 x Duo-LED; green: working / red: double sheet / flashing red: missing sheet
particularities	receiver für ultrasonic-double sheet control distance between transmitter and receiver can be selected

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[documentation \(download\)](#)

pin assignment



order no.

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