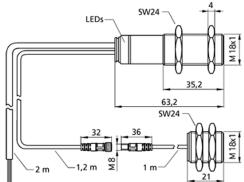


dbk+4/3CDD/M18 E+S

scale drawing

detection zone



2 x pnp

working range

papers with weights of 20 - 2,000 g/m², Washi, metal-laminated sheets and films up to 0.4 mm thick, self-adhesive films, sheet metals up to 0.3 mm thick, fine corrugated card, wafers, PCBs

design

cylindrical M18

operating mode

double sheet control

particularities

distance between transmitter and receiver can be selected

ultrasonic -specific

means of measurement pulse operation with amplitude evaluation

transducer frequency 400 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 mm²

transmitter cable am Empfänger: 1,2 m PUR-Kabel, am Sender: 1 m PUR-Kabel, mit M8 Rundsteckverbinder

dbk+4/3CDD/M18 E+S

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 in trigger mode, 2.5 ms in 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

20 - 60 mm; optimal: 40 mm $\pm 3 \text{ mm}$

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

weight

130 g

further versions

90° angular head
swapped-out transmitter/receiver
single transmitter/receiver

further versions

[dbk+4/WK/3CDD/M18 E+S](#)
[dbk+4/M18/3CDD/M18 E+S](#)
[dbk+4/Sender/M18/K1](#)
[dbk+4/Empf/3CDD/M18](#)

technical features/characteristics

controls

control input

scope for settings

working range selection via control inputs
Teach-in via control inputs
LCA-2 with LinkControl

indicators

1 x Duo-LED; green: working / red: double sheet / flashing red: missing sheet

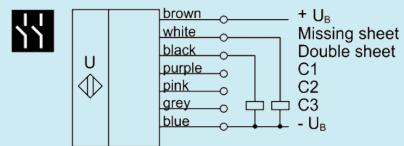
particularities

distance between transmitter and receiver can be selected

dbk+4/3CDD/M18 E+S

[documentation \(download\)](#)

pin assignment



order no.

dbk+4/3CDD/M18 E+S