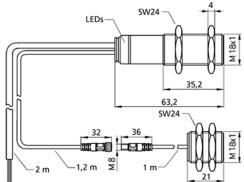


esp-4/Empf/3CDD/M18

scale drawing

detection zone



2 x pnp

working range

sheeting with weights of < 20 g/m² up to >> 600 g/m², metal-laminated sheets and films up to 0.6 mm thick, self-adhesive films, labels on backing material

design

cylindrical M18

operating mode

label/splice detection

particularities

receiver for ultrasonic label/splice sensor

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

voltage ripple ± 10 %

Leerlaufstromaufnahme ≤ 50 mA

type of connection 2 m PUR cable, 7 x 0.25 mm²

transmitter cable 1.2 m PUR cable with M8 initiator plug

esp-4/Empf/3CDD/M18

outputs

output 1	switching output label/splice detected pnp: $I_{max} = 200 \text{ mA } (U_B-2V)$ NOC/NCC adjustable, short-circuit-proof
output 2	switching output web break pnp: $I_{max} = 200 \text{ mA } (U_B-2V)$ NOC/NCC adjustable, short-circuit-proof
response time	< 600 μs

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 - 40 mm; optimal: 40 mm $\pm 3 \text{ mm}$
permissible angular deviation	recommended mounting angle: $\pm 15^\circ$ ($\pm 10^\circ$ to $\pm 45^\circ$) from what is normal for the material
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	100 g

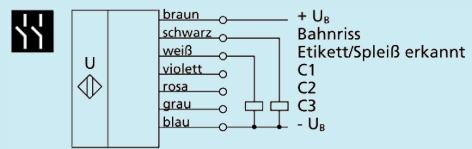
technical features/characteristics

controls	control input
scope for settings	Teach-in via control inputs LCA-2 with LinkControl
indicators	1 x Duo-LED; green: working / red: label/splice detected / flashing red: web break
particularities	receiver for ultrasonic label/splice sensor

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[documentation \(download\)](#)

pin assignment



order no.

esp-4/Empf/3CDD/M18