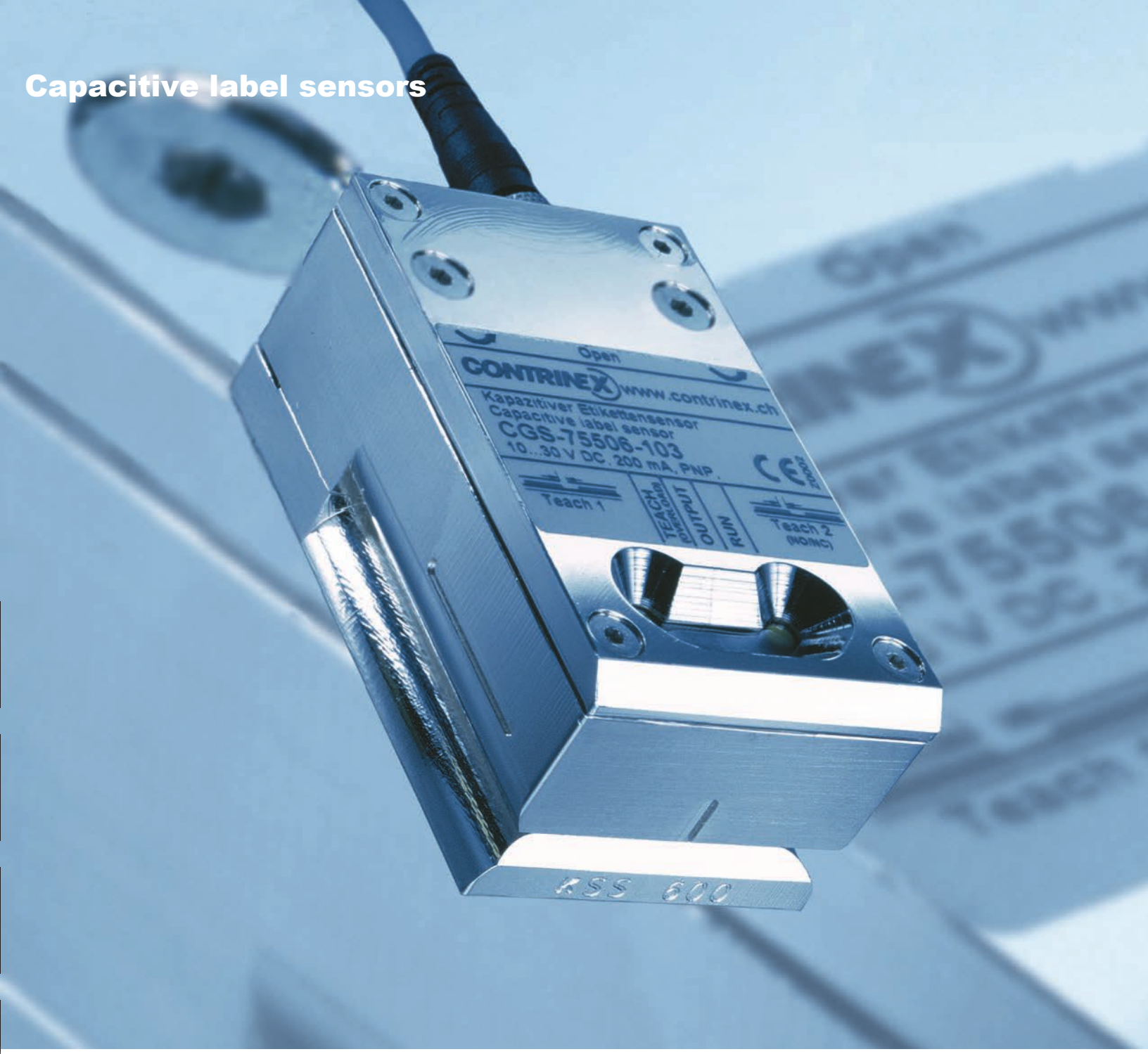
Capacitive label sensors



Features

– Capacitive sensors for the detection of transparent labels, adhesive joints, tears and double sheets of paper
– Static operating principle
– Short response time
– Compact, robust metal housing
– LED for switching state indication

Benefits

– Easy adjustment using teach-in
– Temperature and humidity compensation
– Separable housing
– Insensitive to dirt

CONTRINEX

Capacitive label sensors

Contrinex capacitive label sensors feature simple adjustment, reliable operation, and a compact, robust housing. They are used for the detection of labels, adhesive joints, tears and double sheets. Due to their capacitive operation principle, they are able to detect even transparent materials without problem.

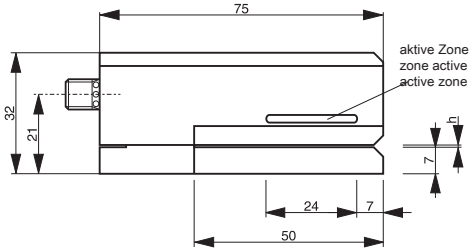
The material to be detected, e.g. labels on a support strip, is placed in the sensor's slot. Strip position and label shape are insignificant, considerably facilitating the use of these devices.

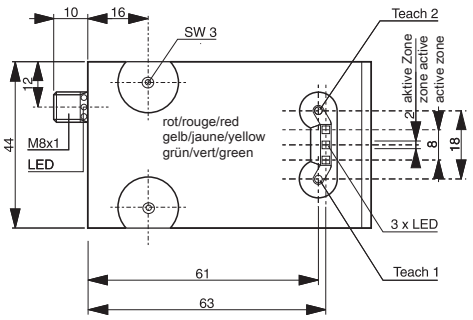
The sensitivity is easily and quickly set by means of teach-in. This results in optimum adjustment and problem-free material changeability. The housing can be easily separated by loosening two socket-head screws, which enables cleaning without dismantling the base and without the need for readjustment.

The sensor's static operating principle and high switching frequency permit very low to very high strip speeds.

Offering two slot widths, these sensors are suitable for a wide range of applications.

Technical data at +20 °C / +68 °F, 24 VDC	
Slot width	
Label thickness	
Label length	
Label interspace	
Strip speed	
Supply voltage range U_B	
Output	
Max. output current	
Short-circuit protection	
No-load supply current	
Voltage drop	
Recovery time	
Hysteresis	
Repeat accuracy	
Ambient temperature range T_A	
Degree of protection	
Housing material	
Types (bold: preferred types)	
Connection	**Polarity**
Connector S8	NPN
Connector S8	PNP

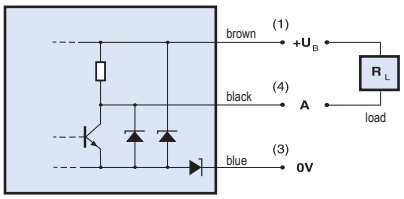




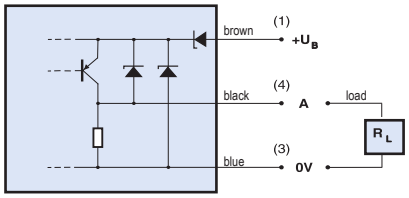
[mm]

Wiring diagrams

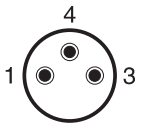
NPN, N.O. / N.C.



PNP, N.O. / N.C.



Pin assignment (device)



S8

	0.4 mm	0.6 mm
	≤ 0.3 mm	0.3 ... 0.5 mm
	> 2 mm	> 2 mm
	> 2 mm	> 2 mm
	< 500 m/min	< 500 m/min
	10 ... 30 VDC	10 ... 30 VDC
	N.O. / N.C. switchable	N.O. / N.C. switchable
	200 mA	200 mA
	Built-in	Built-in
	< 70 mA	< 70 mA
	< 2.5 V	< 2.5 V
	< 100 ms	< 100 ms
	Material-dependent	Material-dependent
	< 0.05 mm	< 0.05 mm
	0 ... +60 °C (+32 ... +140 °F)	0 ... +60 °C (+32 ... +140 °F)
	IP 65	IP 65
	Nickel-plated aluminum	Nickel-plated aluminum
	Part reference	**Part reference**
	CGS-75504-101	**CGS-75506-101**
	CGS-75504-103	**CGS-75506-103**

Europe

Austria Belgium Croatia Czech Republic Denmark Finland France Germany Great Britain Greece Hungary Ireland Italy Luxembourg Netherlands Norway Poland Portugal Romania Russia Slovakia Slovenia Spain Sweden Switzerland Turkey

Africa

South Africa

The Americas

Argentina Brazil Canada Chile Colombia Mexico United States Venezuela

Asia

China India Indonesia Japan Korea Malaysia Pakistan Philippines Singapore Taiwan Thailand Vietnam

Australasia

Australia New Zealand

Middle East

Egypt Iran Israel Syria United Arab Emirates

CONTRINEX

Contrinex
Contrinex has been manufacturing sensors for industrial use since 1972, and today employs over 400 people.

Products
The strength of Contrinex lies in its wide range of highly innovative sensors with special characteristics:

– very small sizes
– very long operating distances
– resistance to extreme environmental conditions (extreme pressure, temperatures etc.)
– all-metal housings

Quality
The high quality of Contrinex products is guaranteed by a well-organized ISO 9001:2000 certified management system.

Customer service
Thanks to a worldwide presence, Contrinex ensures easy contact between customers and the manufacturer.

Catalog
Please consult our catalog for clear and precise information concerning Contrinex's wide range of products:

– Inductive, Photoelectric and Ultrasonic Proximity Switches

These proximity switches **must not be used** in applications where the **safety of people** is dependent on their functioning. Terms of delivery and rights to change design reserved.

Contrinex Inc.

Certified Management System SQS ISO 9001:2000
Reg. N° 11397