## **GK 14**

## **Capacitive forked sensor**

ø5

## **Dimensioned drawing**

7x45°



EN 07-2009/08 50110462



- Forked sensor for reliable detection of transparent and opaque labels
- PNP and NPN transistor output for optimum adaptation to the controller
- Robust metal housing with beveled inlet edges
- Inverting input for easy adaptation of the output signal level

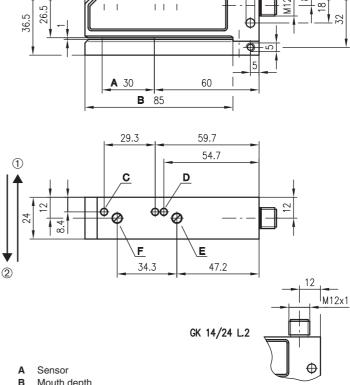


# IP 65

## Accessories:

(available separately)

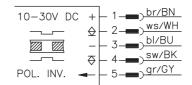
- M12 connectors (KD ...)
- Ready-made M12 cables (K-D...)



110 100

- Mouth depth
- Display switching output С
- D Display base adjustment
- Е Base adjustment
- F
- Sensitivity adjustment: Clockwise rotation = increase sensitivity
- (1) + (2) Direction of label-tape movement

# **Electrical connection**



**GK 14** 

VDC (incl. residual ripple) f $U_B$ ansistor output ansistor output dependent, reversible $\eta/2 \le V$
VDC (incl. residual ripple) f U <sub>B</sub> ansistor output ansistor output dependent, reversible
f U <sub>B</sub> ansistor output ansistor output dependent, reversible
le with multiturn potentiometer le with multiturn potentiometer
Diagrams
n, anodized nector, 5-pin
60°C
v
h

### Remarks

#### • Switching behavior dependent on the infeed direction

Depending on the direction of movement of the label tape through the sensor, the following switching behavior occurs at the outputs:

• •	-		
Direction of movement	Switching outputs pin 2 + pin 4		
Direction of movement	Pin 5 not connected or 0V	or OV Operating voltage U <sub>B</sub> at pin 5	
1	Signal in the gap	Signal on the label	
2	Signal on the label	Signal in the gap	

#### • Mounting

For optimum function of the capacitive forked sensor, the sensor should be mounted on a metallic machine part. A lock washer (e.g DIN 6797) should be placed under the screw head to secure the sensor.

#### Approved purpose:

The GK 14 forked sensors are sensors for the capacitive detection of labels on a carrier tape. This product is only to be commissioned and used for the approved purpose by qualified personnel. This sensor is not a protective sensor and is not to be used for personnel protection.

## Order guide

	Designation	Part No.
Rear connector	GK 14/24 L	500 26371
Top connector	GK 14/24 L.2	500 31714

# Remarks

#### Base setting

- Set sensitivity to max. (turn potentiometer to the right), then turn back 1/2 turn to the left.
- the left. Base adjustment <u>without</u> label tape such that both
- LEDs are equally bright. - If necessary, reduce the sensitivity setting (in steps of 1/4 turn to the left).
- Base adjustment Perform after new mounting, cleaning, sensitivity increase.
- Switching behavior A signal change at the switching output occurs when a label enters at the minimum speed. The output signal remains constant until the next edge of an exiting or entering label is detected.