

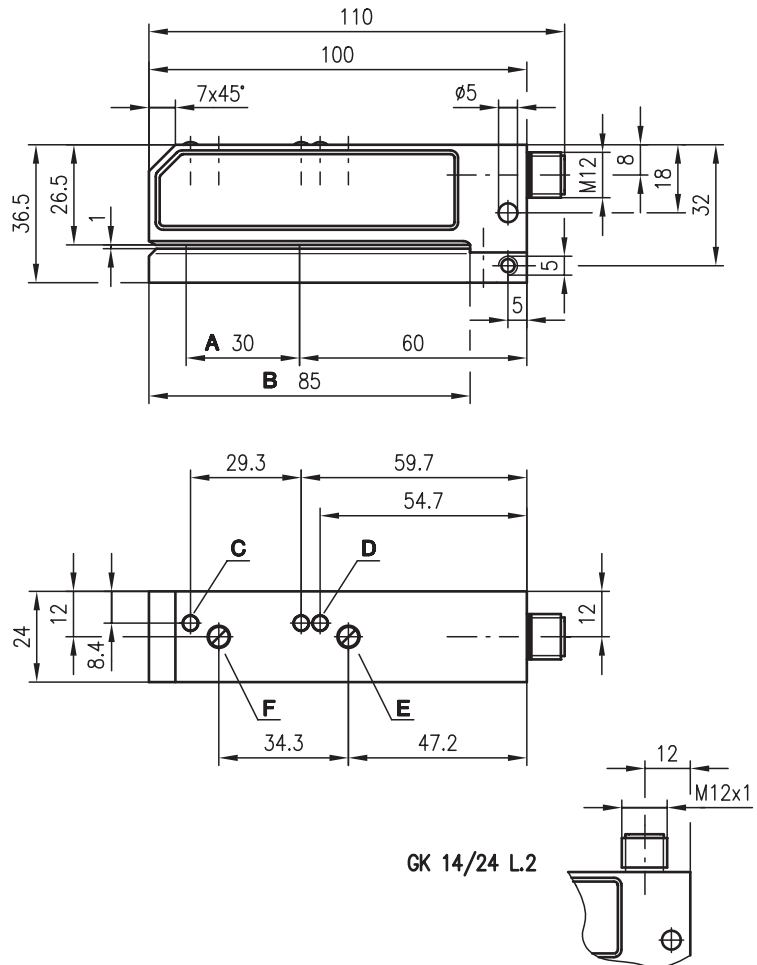


GK 14

Capacitive forked sensor



Dimensioned drawing



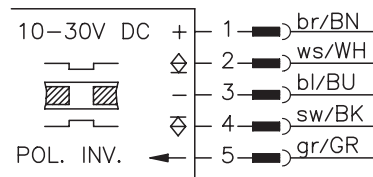
1 mm



- 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 bevelled inlet edges
- Inverting input for easy adaptation of the output signal level

- A Sensor
- B Mouth depth
- C Display switching output
- D Display base adjustment
- E Base adjustment
- F Sensitivity adjustment:  
Clockwise rotation = increase sensitivity

Electrical connection



We reserve the right to make changes • GS\_a04e.fm



Accessories:

(available separately)

- M12 connectors (KD ...)



## Specifications

### Optical data

Mouth width	0.9mm ± 0.1mm
Mouth depth	85mm

### Timing

Switching frequency <sup>1)</sup>	5000Hz
Response time	0.1ms
Delay before start-up	≤ 100ms

### Electrical data

Operating voltage U <sub>B</sub>	10 ... 30VDC (incl. residual ripple)
Residual ripple	≤ 15% of U <sub>B</sub>
Bias current	≤ 35mA
Switching output	1 PNP transistor output 1 NPN transistor output
Function characteristics	direction dependent, reversible
Signal voltage high/low	≥ (U <sub>B</sub> -2V)/≤ 2V
Output current	200mA
Sensitivity	adjustable with multiturn potentiometer
Base adjustment	adjustable with multiturn potentiometer

### Indicators

LED yellow	label/gap
LED yellow (2x)	base adjustment

### Mechanical data

Housing	aluminium, anodised
Weight	175g
Connection type	M12 connector, 5-pin

### Environmental data

Ambient temp. (operation/storage)	0°C ... +60°C
Protective circuit <sup>2)</sup>	1, 2
VDE safety class	III
Protection class	IP 65

### Options

Inverting input high/low	≥ 8V/≤ 2V
Input resistance	10kΩ

1) max. label speed 10m/s, min. label spacing 2mm

2) 1=polarity reversal protection, 2=short-circuit protection for all outputs

## Tables

## Diagrams

## Order guide

Designation	Part No.
GK 14/24 L	500 26371

## Remarks

- **Base setting**
  - Set sensitivity to max. (turn potentiometer to the right), then turn back 1/2 turn to the left.
  - Base adjustment without labels 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 behaviour**  
A signal change on the switching output occurs when a label enters at the minimum velocity. The output signal remains constant until the next edge of an existing or entering label is detected.