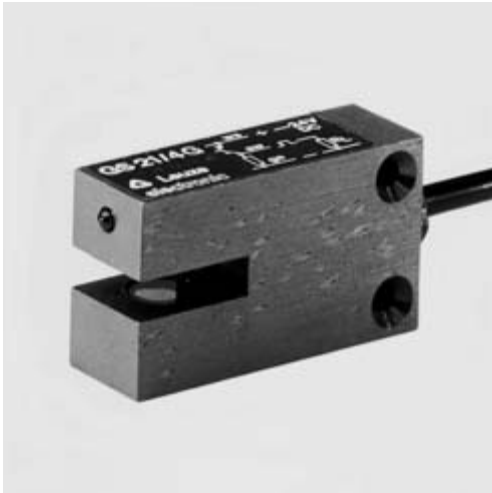


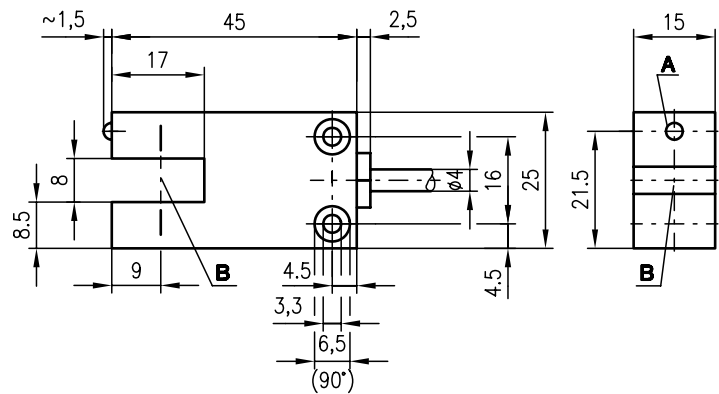


GS 21

Forked photoelectric sensors



Dimensioned drawing



A Indicator diode
B Optical axis

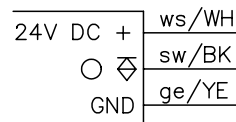


8mm



- GaAs top photoelectric sensor in constant light operation with gallium arsenide transmitter diode ensures a long lifetime
• Fast amplifier with high switching frequency for detection of short events (e.g. gaps between labels)
• Transistor output - separate switching amplifier not required
• Insensitive to interference due to low impedance output
• Indicator diode displays the switching state

Electrical connection



Accessories:

We reserve the right to make changes • GS_a13e.fm



Specifications

Optical data

Mouth width 8mm

Timing

Switching frequency 1000Hz
Response time 0.5ms

Electrical data

Operating voltage U_B ¹⁾ 24VDC, filtered $\pm 10\%$
Residual ripple $\leq 15\%$ of U_B
Bias current $\leq 90\text{mA}$
Switching output 1 PNP transistor output
Function characteristics light switching
Signal voltage high/low $\geq (U_B - 2\text{V}) / \leq 2\text{V}$
Output current 100mA

Indicators

LED red light path free

Mechanical data

Housing aluminium, anodised
Weight 120g
Connection type cable 5000mm (cross section $3 \times 0.25\text{mm}^2$)

Environmental data

Ambient temp. (operation/storage) $-20^\circ\text{C} \dots +60^\circ\text{C} / -30^\circ\text{C} \dots +70^\circ\text{C}$
Protective circuit ²⁾ 1, 2
VDE safety class III
Protection class IP 65

1) Functional extra-low voltage with reliable disconnection or protective extra-low voltage (VDE 0100/T 410)

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

Tables

Diagrams

Order guide

Designation	Part No.
GS 21/4 G	500 13967

Remarks