



GS 10

Forked photoelectric sensors

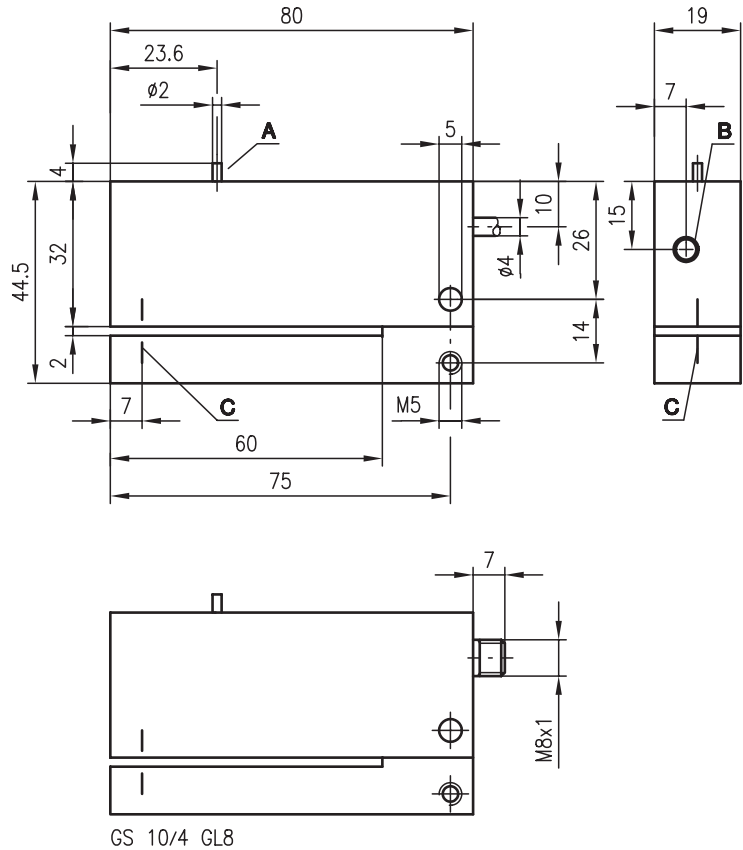


2mm

10 - 30 V
DC

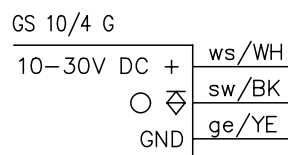
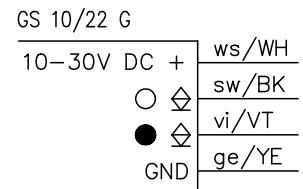
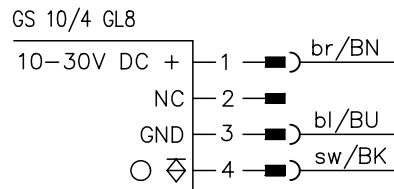
- Fast amplifier with high switching frequency for detection of short events (e.g. gaps between labels)
- Universal application due to short circuit and polarity reversal protected PNP or NPN switching output
- Robust aluminium housing with bevelled inlet edges
- Indicator diode with large viewing area displays the switching state
- Easy calibration with calibration button for optimum sensitivity adjustment

Dimensioned drawing



- A** Calibration button
- B** Indicator diode
- C** Optical axis

Electrical connection



We reserve the right to make changes • GS_a11e.fm



Accessories:

(available separately)

- Ready-made cables (KB ...)
- M8 connectors (KD ...)



Specifications

Optical data	
Mouth width	2mm
Timing	
Switching frequency	1000Hz
Response time	0.5ms
Electrical data	
Operating voltage U_B ¹⁾	10 ... 30VDC (incl. residual ripple)
Residual ripple	≤ 15% of U_B
Bias current	≤ 50mA
Switching output	1 PNP transistor output, light switching or 2 NPN transistor outputs, light/dark switching
Signal voltage high/low	≥ ($U_B - 2V$) ≤ 2V
Output current	100mA
Sensitivity	adjustable by pressing the calibration button
Indicators	
LED red	light path free
Mechanical data	
Housing	aluminium, anodised
Weight	120g connector version 170g cable version
Connection type	cable 2000mm (cross section 4x0.25mm ²) cable 2000mm (cross section 3x0.25mm ²) or M8 connector, 3-pin
Environmental data	
Ambient temp. (operation/storage)	-20°C ... +60°C / -30°C ... +70°C
Protective circuit ²⁾	1, 2
VDE safety class	III
Protection class	IP 40

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

Selection table		Order code →					
Equipment ↓		GS 10/22 G Part No. 500 17880	GS 10/4 G Part No. 500 13637	GS 10/4 GL8 Part No. 500 21319			
Switching output	1 PNP		●	●			
	2 NPN	●					
Connection	M8 connector			●			
	3-wire cable		●				
	4-wire cable	●					
Switching	light switching		●	●			
	light/dark switching	●					

Remarks

- The sensitivity of the device is set by placing the material with the attached labels in the light beam and pressing the calibration button.
- Setup by untrained personnel possible when changing labels.
- The set value of the sensitivity is retained when the operating voltage is switched off.