

Photoelectric Special Sensors

Fork sensors BGL 21



Photoelectric sensors

Photoelectric standard sensors

Photoelectric special sensors

Optical fiber base units

Fiber optics

Contrast sensor

Luminescence sensor

Color sensors

Fork sensors

Angle sensors

Dynamic optical windows

Light grids

Photoelectric distance sensors for analog distance measurement

Special accessories for photoelectric sensors

Series	BGL		BGL
Fork opening	2 mm		2 mm
Fork depth	50 mm		50 mm
PNP/NPN	NC/NO	Ordering code	BGL002L
		Part number	BGL 21-IR
			BGL002M
			BGL 21-RG
Supply voltage U_B	10...30 V DC		10...30 V DC
No-load supply current I_0 max.	≤ 55 mA		≤ 55 mA
Output current	100 mA		100 mA
Switching type	Light/dark switching (selectable)		Light/dark switching (selectable)
Polarity reversal/short-circuit protected	Yes/Yes		Yes/Yes
Settings	Teach-in		Teach-in
Emitter, light type	Infrared		Red and green light
Wavelength	880 nm		636 nm/536 nm
Resolution (smallest discernible part)	1 mm		0.5 mm
Repeat accuracy	80 μ m		80 μ m
Switching hysteresis	≤ 0.2 mm		≤ 0.2 mm
Output function indicator	Yellow LED		Yellow LED
Power/error indicator	Green/red LED		Green/red LED
Response time	20 μ s		20 μ s
Switching frequency	25 kHz		25 kHz
Degree of protection as per IEC 60529	IP 65		IP 65
Ambient temperature T_a	-20...+60 °C		-20...+60 °C
Ambient light limit according to	EN 60947-5-2		EN 60947-5-2
Material	Housing	Anodized aluminum	Anodized aluminum
	Optical surface	Glass	Glass
Connection	M8 connector, 4-pin		M8 connector, 4-pin

 Connector orientation

