

Щелевые и рамочные датчики

Технические характеристики

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Series GL – fork type light beam switches in a robust metal housing

Fork-type light beam switches work on the same principle as thru-beam sensors.

Since the transmitter and receiver are integrated into the same housing along with all the electronics, installation and commissioning of these sensors is greatly simplified. No alignment of transmitter and receiver is necessary.

The devices have a 3-pin M8 plug connector with integrated switch status display, enabling the quick commissioning of the unit over a 3-pin cable connection.

The scratch-proof lenses are equipped with slit covers, which when used in combination with the sensitivity adjustment allow the reliable detection of even the smallest parts.

The robust metal housing and the high protection class make these sensors suitable for a wide range of applications in automation systems. Their special features make these devices particularly suitable for e.g. reliable detection of small parts on vibration conveyors, and for the exact positioning of machines for installation and conveyor systems.

Type	Fork width	Detectable object size	Page
GL10	10 mm	0.5 mm	336
GL20	20 mm		336
GL30	30 mm		338
GL50	50 mm		338
GL80	Series KT10		338
GL121	121 mm		340
GL220	220 mm		340



Fork type sensor

GL..-RT/32/40a/98a



Features

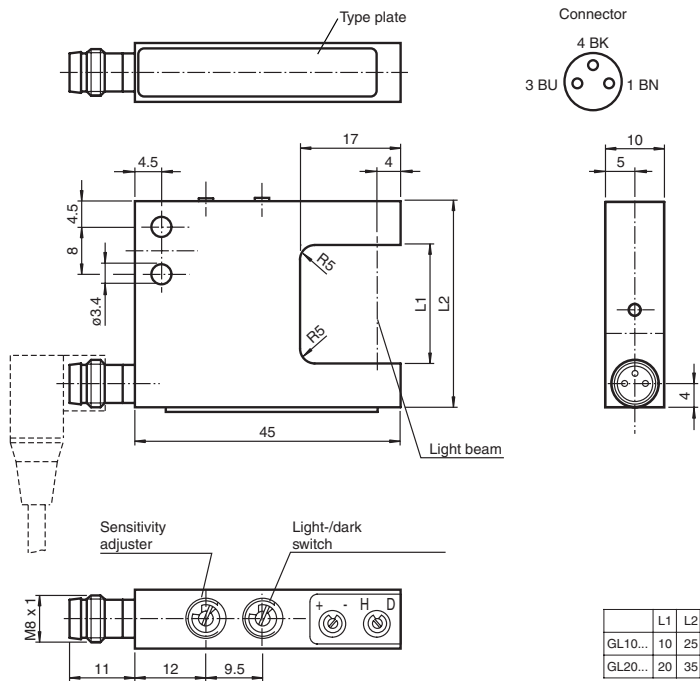
- High switching frequency
- Optimised for the detection of small parts
- Visible red light
- Sensitivity adjuster and light/dark switch as standard features of this series
- Sturdy aluminium housing
- Protection degree IP67
- cULus approval

For suitable cable sockets, reflectors, mounting aids and more, please refer to chapter „Accessories“.

GL..-RT/32/40a/98a

Technical data

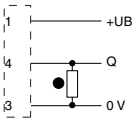
Ordering code:		GL10-RT/32/40a/98a	GL20-RT/32/40a/98a
Fork width	10 mm	◆	
	20 mm		◆
Obstacle size	0.5 mm	◆	◆
Light type	red, modulated light	◆	◆
Light source	LED	◆	◆
Ambient light limit	100000 Lux	◆	◆
Tests	EN 60947-5-2	◆	◆
Marking			
Approvals	CE, cULus	◆	◆
Function display	LED red in the connector plug, illuminates with free light beam , LED flashes when falling short of the stability control	◆	◆
Operating elements	Sensitivity adjuster, light/dark switch	◆	◆
Operating voltage	10 ... 30 V DC, class 2	◆	◆
Ripple	10 %	◆	◆
No-load supply current	15 mA	◆	
	25 mA		◆
Signal output	1 pnp, short-circuit proof, open collector	◆	◆
Switching type	light/dark switching	◆	◆
Switching voltage	max. 30 V DC	◆	◆
Switching current	max. 200 mA	◆	◆
Switching frequency	2500 Hz	◆	
Response time	≤ 0.5 ms		◆
	0.2 ms	◆	
Repeat accuracy	0.05 mm		◆
Ambient temperature	-20 ... 60 °C (253 ... 333 K)	◆	◆
Storage temperature	-20 ... 75 °C (253 ... 348 K)	◆	◆
Protection degree	IP67	◆	◆
Connection	M8 connector, 3-pin	◆	◆
Material			
Housing	aluminium	◆	◆
Optical face	glass	◆	◆
Mass	30 g	◆	◆



Electrical connection

Connection type

Option 32/40a/98a



Option 98
plug M8, 3 pin

○ = light on, ● = dark on, for connector pinout see dimension drawing



Fork type sensor

GL..-RT/32/40a/98a



Features

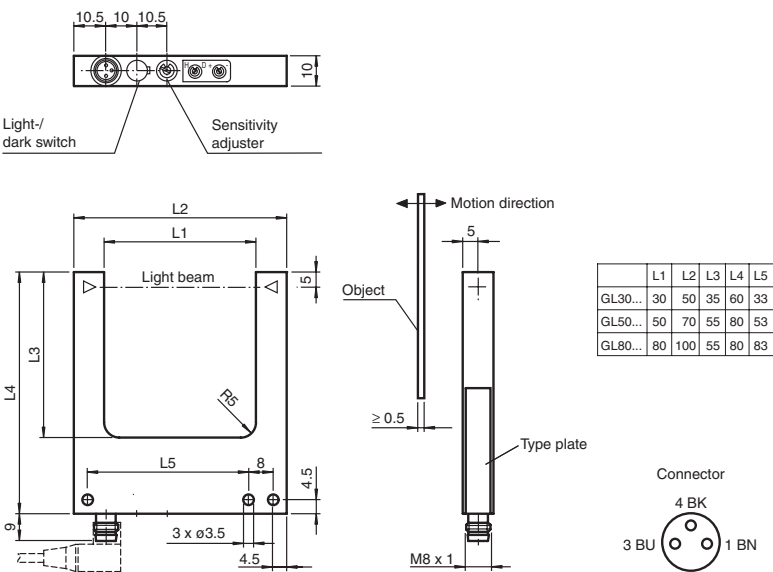
- Optimised for the detection of small parts
- Visible red light
- Sensitivity adjuster and light/dark switch as standard features of this series
- Protection degree IP67
- cULus approval
- diecast zinc housing, powder coated

For suitable cable sockets, reflectors, mounting aids and more, please refer to chapter „Accessories“.

GL..-RT/32/40a/98a

Technical data

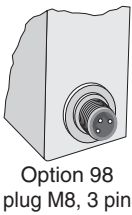
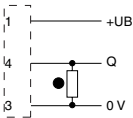
Ordering code:		GL30-RT/32/40a/98a	GL50-RT/32/40a/98a	GL80-RT/32/40a/98a
Fork width	30 mm	◆		
	50 mm		◆	
	80 mm			◆
Obstacle size	0.5 mm	◆	◆	◆
Light type	red, modulated light	◆	◆	◆
Light source	LED	◆	◆	◆
Ambient light limit	100000 Lux	◆	◆	◆
Tests	EN 60947-5-2	◆	◆	◆
Approvals	CE, cULus	◆	◆	◆
Function display	LED red in the connector plug, illuminates with free light beam	◆	◆	◆
Operating elements	Sensitivity adjuster, light/dark switch	◆	◆	◆
Operating voltage	10 ... 30 V DC, class 2	◆	◆	◆
Ripple	10 %	◆	◆	◆
No-load supply current	25 mA	◆	◆	◆
Signal output	1 pnp, short-circuit proof, open collector	◆	◆	◆
Switching type	light/dark switching	◆	◆	◆
Switching voltage	max. 30 V DC	◆	◆	◆
Switching current	max. 200 mA	◆	◆	◆
Response time	≤ 1 ms	◆	◆	◆
Repeat accuracy	0.05 mm	◆	◆	◆
Ambient temperature	-20 ... 60 °C (253 ... 333 K)	◆	◆	◆
Storage temperature	-20 ... 75 °C (253 ... 348 K)	◆	◆	◆
Protection degree	IP67	◆	◆	◆
Connection	M8 connector, 3-pin	◆	◆	◆
Material				
Housing	diecast zinc, powder coated	◆	◆	◆
Optical face	glass	◆	◆	◆
Mass	60 g	◆	◆	◆



Electrical connection

Connection type

Option 32/40a/98a



○ = light on, ● = dark on, for connector pinout see dimension drawing



Fork type sensor

GL...-RT/32/40a/98a



Features

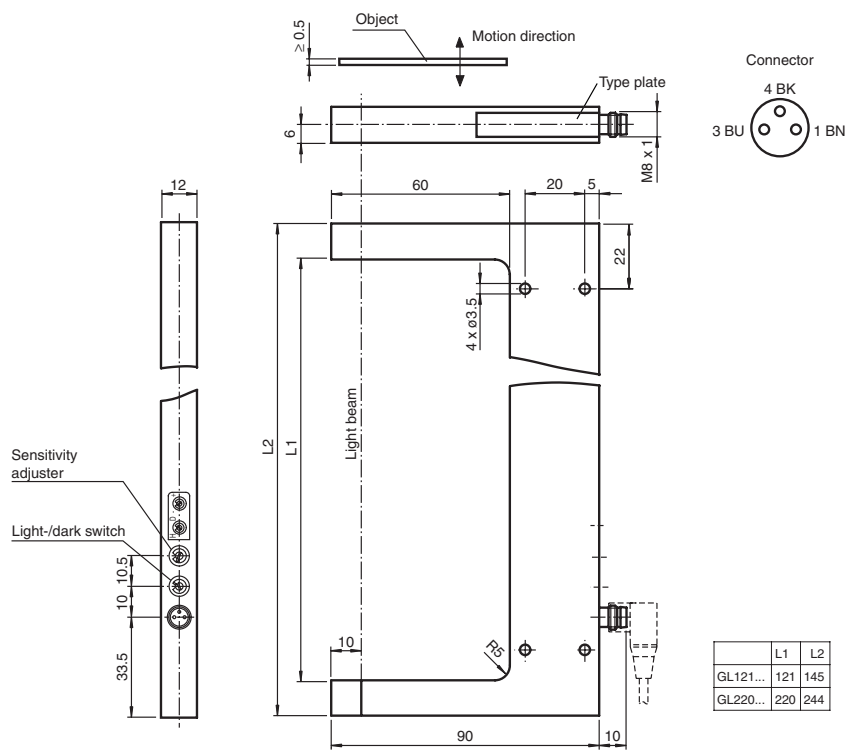
- Optimised for the detection of small parts
- Visible red light
- Sensitivity adjuster and light/dark switch as standard features of this series
- Protection degree IP67
- cULus approval
- High switching frequency
GL220-RT/32/40a/98a
- Sturdy aluminium housing
GL220-RT/32/40a/98a
- diecast zinc housing, powder coated
GL121-RT/32/40a/98a

For suitable cable sockets, reflectors, mounting aids and more, please refer to chapter „Accessories“.

GL...-RT/32/40a/98a

Technical data

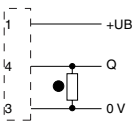
		Ordering code:	GL121-RT/32/40a/98a	GL220-RT/32/40a/98a
Fork type sensors	Fork width	121 mm	◆	
		220 mm		◆
	Obstacle size	0.5 mm	◆	◆
	Light type	red, modulated light	◆	◆
	Light source	LED	◆	◆
Contrast sensors, Color sensors	Ambient light limit	100000 Lux	◆	◆
	Tests	EN 60947-5-2	◆	◆
Vision systems	Marking			
	Approvals	CE, cULus	◆	◆
	Function display	LED red in the connector plug, illuminates with free light beam		◆
	Operating elements	Sensitivity adjuster, light/dark switch	◆	◆
	Operating voltage	10 ... 30 V DC, class 2	◆	◆
Sensors for hazardous areas	Ripple	10 %	◆	◆
	No-load supply current	25 mA		◆
	Signal output	1 pnp, short-circuit proof, open collector	◆	◆
	Switching type	light/dark switching	◆	◆
	Switching voltage	max. 30 V DC	◆	◆
Light grids	Switching current	max. 200 mA	◆	◆
	Switching frequency	350 Hz		◆
	Response time	≤ 1 ms	◆	
		1 ms		◆
	Repeat accuracy	0.05 mm	◆	
Optical data coupler	Ambient temperature	-20 ... 60 °C (253 ... 333 K)		◆
	Storage temperature	-20 ... 75 °C (253 ... 348 K)	◆	◆
	Protection degree	IP67	◆	◆
	Connection	M8 connector, 3-pin	◆	◆
	Material			
Distance measurement	Housing	aluminium		◆
		diecast zinc, powder coated	◆	
	Optical face	glass	◆	◆
Accessories	Mass	60 g	◆	◆



Electrical connection

Connection type

Option 32/40a/98a



○ = light on, ● = dark on, for connector pinout see dimension drawing

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