

FORK SENSORS

FGL .. -RK (red light)
FGL .. -IK (infrared light)

Application picture FGL-RK

High performance, low price.

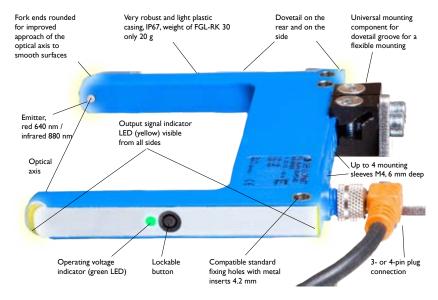
The new fork sensors of the FGL series have a whole range of innovative features facilitating their use in practice.

The material for instance: The casings consist of light and robust polycarbonate instead of the much heavier metal versions that are ususally used. However they are just as torsion-resistant as the heavier versions.

The output signal indicator is particularly innovative, as the LEDs are visible from all sides. Another decisive feature for the application of sensors are the mounting possibilities: In addition to the standard mounting holes, the FGL can also be mounted in a very flexible way by means of mounting sleeves on the back and a dovetail.

Another strength of the new series is the detection of very small parts: With the FGL it is possible to detect even objects with a diameter of only 0.2 mm in a reliable way.

The sensitivity adjustment is effected with our approved teach-in operation.



Features

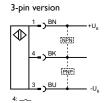
- Fork widths 30 120 mm
- Detection of very small parts from 0.2 mm
- Dynamic teach-in: Even setting to moving objects is possible
- Plastic casing
- Switching frequency 2 kHz
- Red / infrared light
- Numerous mounting possibilities (e.g. dovetail)
- Output signal indicator LEDs visible from all sides
- No "interfering" visible light due to infrared light
- Unaffected by contamination

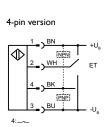


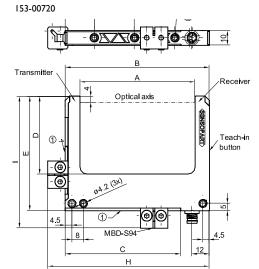
Technical data (typ.)	FGLRK / FGLIK
Optical data	
Sensitivity adjustment	teach-in
Used light	red (640 nm) / infrared (880 nm)
Smallest detectable part	0.2 mm
Electrical data	
Operating voltage +U _B	10 30 V DC
Power consumption (no load)	≤ 30 mA
Reverse battery protection $\boldsymbol{U}_{_{\boldsymbol{B}}}$ / Short-circuit protection	yes
External teach (ET; only 4-pin version)	+U _B = teach-in function / -U _B = teach-in button locked / open = normal operation
Output current	100 mA
Switching frequency (ti/tp 1:1)	2000 Hz
Output signal indicator	LED yellow
Protection class	
Mechanical data	
Casing material	polycarbonate
Protection standard	IP67
Ambient temperature range	-20 +60 °C
Connection	M8x1, 3-pin / M8x1, 4-pin
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Versions								
Fork width (mm)	30		50)	80)	120	
Switching output	PNP	NPN	PNP	NPN	PNP	NPN	PNP	NPN
Type/order ref.* Red light	FGL 30-RK- 30-PS	FGL 30-RK- 30-NS	FGL 50-RK- 50-PS	FGL 50-RK- 50-NS	FGL 80-RK- 50-PS	FGL 80-RK- 50-NS	FGL 120-RK-50 -PS	FGL 120-RK- 50-NS
Type/order ref. * Infrared light	FGL 30-IK- 30-PS	FGL 30-IK- 30-NS	FGL 50-IK- 50-PS	FGL 50-IK- 50-NS	FGL 80-IK- 50-PS	FGL 80-IK- 50-NS	FGL 120-IK- 50-PS	FGL 120-IK- 50-NS

 \ast Please indicate the required plug (3-pin or 4-pin) when you place your order.







Typ / Type	Α	В	С	D	Е	F	G	Н	1	2
FGL 30-xK-30-xx-xx	30	50	30	34	59,5	20	-	62,2	71,7	1x
FGL 50-xK-50-xx-xx	50	70	50	54	79,5	20	28	82,2	91,7	2x
FGL 80-xK-50-xx-xx	80	100	80	54	79,5	20	2x28	112,2	91,7	3x
FGL 120-xK-50-xx-xx	120	140	120	54	79,5	20	3x28	152,2	91,7	4x
Angaben in mm / Specifications are in mm / Données en mm										

- Schwalbenschwanz / Dovetail / Pince à queue d'aronde
- Qewindeeinsatz M4, Einschraubtiefe max. 6 mm Threaded insert M4, max. screw-in depth 6 mm Insert filetage M4, profondeur vis max 6 mm

Accessory: MBD-S94 mounting component for dovetail

