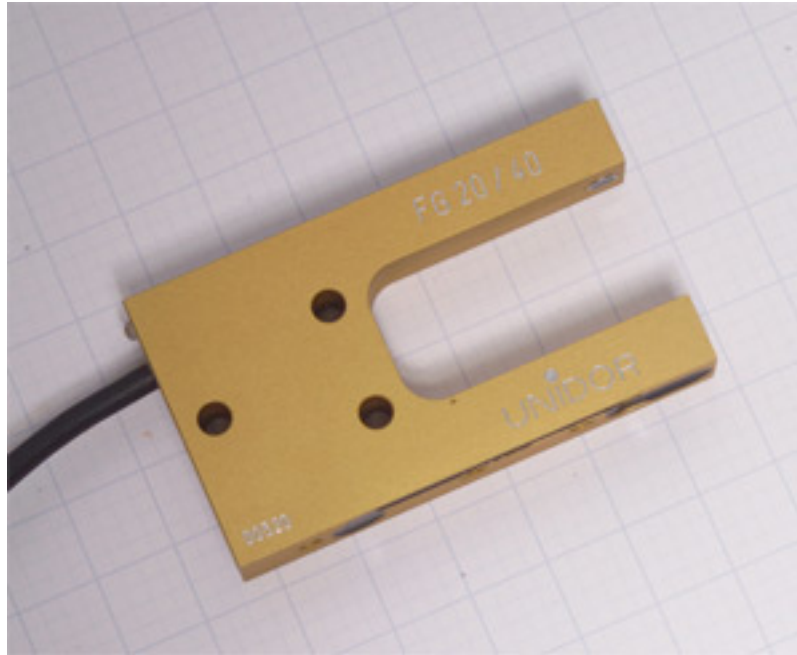


## IR-Fork Type Light Barrier FG-Series



### Application

The fork type light barriers of FG-Series are very sturdy with a high enclosure rating and therefore ideal for pressing technique and machine tools. The sensor has an integrated amplifier and a switching state indicator by LED. Standard delivery is the sensor with 2m cable and connected to a 7 pin plug for TRsystems die-protection box (by request also without the plug).

### Technical features

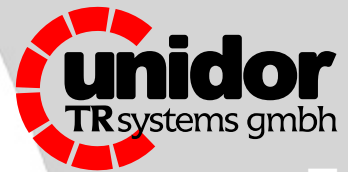
- Sturdy construction
- Internal amplifier
- Push-pull output
- Switching state indicator LED (green/red)
- Oil-resistant PUR-cable
- Scratch-resistant optic



TRsystems GmbH  
Freiburger Str. 3  
D-75179 Pforzheim

Tel +49(0)7231/3152-0  
Fax +49(0)7231/3152-99  
unidor@trsystems.de  
www.trsystems.de

# IR-Fork Type Light Barrier FG-Series

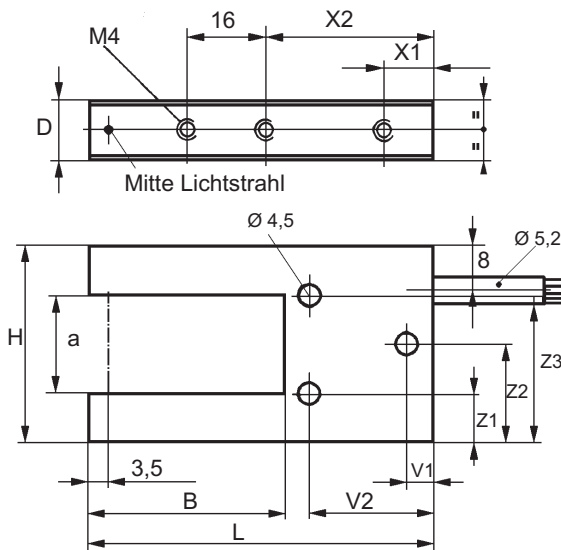


SENSOREN

## Technical Data

Voltage supply:	+15VDC... +32VDC
Max. range:	Typ. 80mA
Transmitter:	Infrared
Reproducibility:	Typ. 0,3mm (depends on the aperture)
Optical filter:	IR-block filter
Apertures:	Round apertures (0,6 1,0 1,2)
Max. switching current:	PNP / NPN 120mA, short-circuit-proof
Operating temperature:	-20 °C... +60 °C
Housing: / Enclosure rating:	Aluminium, gold coloured anodized / IP 67
Switching frequency:	5 kHz

## Dimensions



Length in mm	FG 5x16	FG 10x16	FG 20x20	FG 20x40	FG 20x60	FG 40x40
a	5	10	20	20	20	40
b	16	16	20	40	60	40
H	25	30	40	60	40	60
L	42	42	50	70	90	70
D	10	10	12	12	12	12
Z1	9	9	12	12	12	12
Z2	9	9	20	20	20	30
Z3	-	-	28	28	28	48
V1	6,5	6,5	5	5	5	5
V2	14,5	14,5	25	25	25	25
X1	3,5	3,5	10	10	10	10
X2	10,5	10,5	25	34	34	34
apert.*	0,6	0,6	1,0	1,0	1,0	1,2

\*standard apertures – by request other apertures available

### Colour: Configuration:

brown	+Ub (+15VDC ... +32VDC)
yellow	NPN (Low-signal at free light beam)
green	GND (0V)
white	PNP (High-signal at free light beam)
shield	housing

## Order Data

Article-No.	Short term	Description
500301010000	FG 5/16 (N7/0,6/F)	FG 5 x 16 with 7pin plug – cable-length = 2m
500301020000	FG 10/16 (N7/0,6/F)	FG 10 x 16 with 7pin plug – cable-length = 2m
500301030000	FG 20/20 (N7/1,0/F)	FG 20 x 20 with 7pin plug – cable-length = 2m
500301040000	FG 20/40 (N7/1,0/F)	FG 20 x 40 with 7pin plug – cable-length = 2m
500301070000	FG 20/60 (N7/1,0/F)	FG 20 x 60 with 7pin plug – cable-length = 2m
500301050000	FG 40/40 (N7/1,2/F)	FG 40 x 40 with 7pin plug – cable-length = 2m

**By request other sizes available!**

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