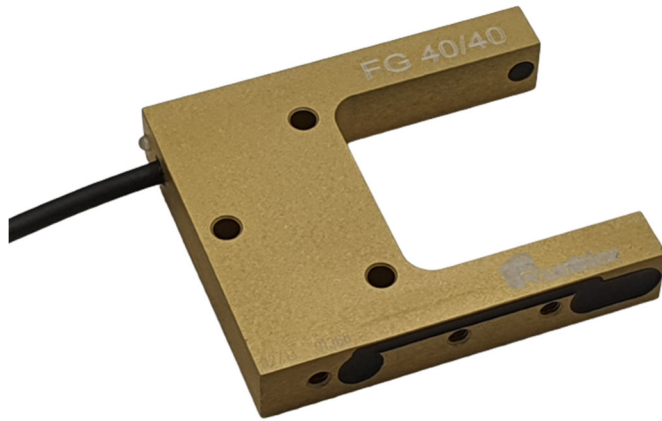


fork light barrier

type: FG



picture alike

FG

5003 010x 0000

Apr-21

- _ robust aluminium housing
- _ integrated amplifier
- _ push-pull output
- _ switching state indicator
- _ oil-resistant PUR-cable
- _ scratch-resistant optic

application range

position detection, feed rate detection quick process counting

technical data

feature	
voltage supply	15 .. 32 V DC
max. current	app. 80 mA
transmitter	IR-LED 905nm
receiver	photo transistor
housing	alu, gold anodised
outputs	2x digital NPN/PNP*
output current	120 mA
reproducibility	0.3mm
apertures	0.6...1.2 mm
switching frequency	5 kHz
switching state indicator	LED (red/green)

subject to change

TRsystems GmbH, system area
 UNIDOR
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 75179 Pforzheim
 Tel. +49 (0) 7231 3152-0
 unidor@trsystems.de
www.unidor.de

fork light barrier

type: FG

FG

5003 010x 0000

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ambient conditions

operating temperature range	-20 .. +60°C
enclosure rating	IP 67
ambient light level	5000 Lux

*yellow NPN (low-signal at free light beam), white PNP (high-signal at free light beam)

order data / types

type	description	order number
FG 5x16	cable length 2m, plug M16 7pol.	5003 0101 0000
FG 10x16	cable length 2m, plug M16 7pol.	5003 0102 0000
FG 20x20	cable length 2m, plug M16 7pol.	5003 0103 0000
FG 20x40	cable length 2m, plug M16 7pol.	5003 0104 0000
FG 20x60	cable length 2m, plug M16 7pol.	5003 0107 0000
FG 40x40	cable length 2m, plug M16 7pol.	5003 0105 0000
M12/4-pin	plug own manufacture	6200 0627
M8/3-pin	plug own manufacture	6200 01569

dimensions

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

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fork light barrier

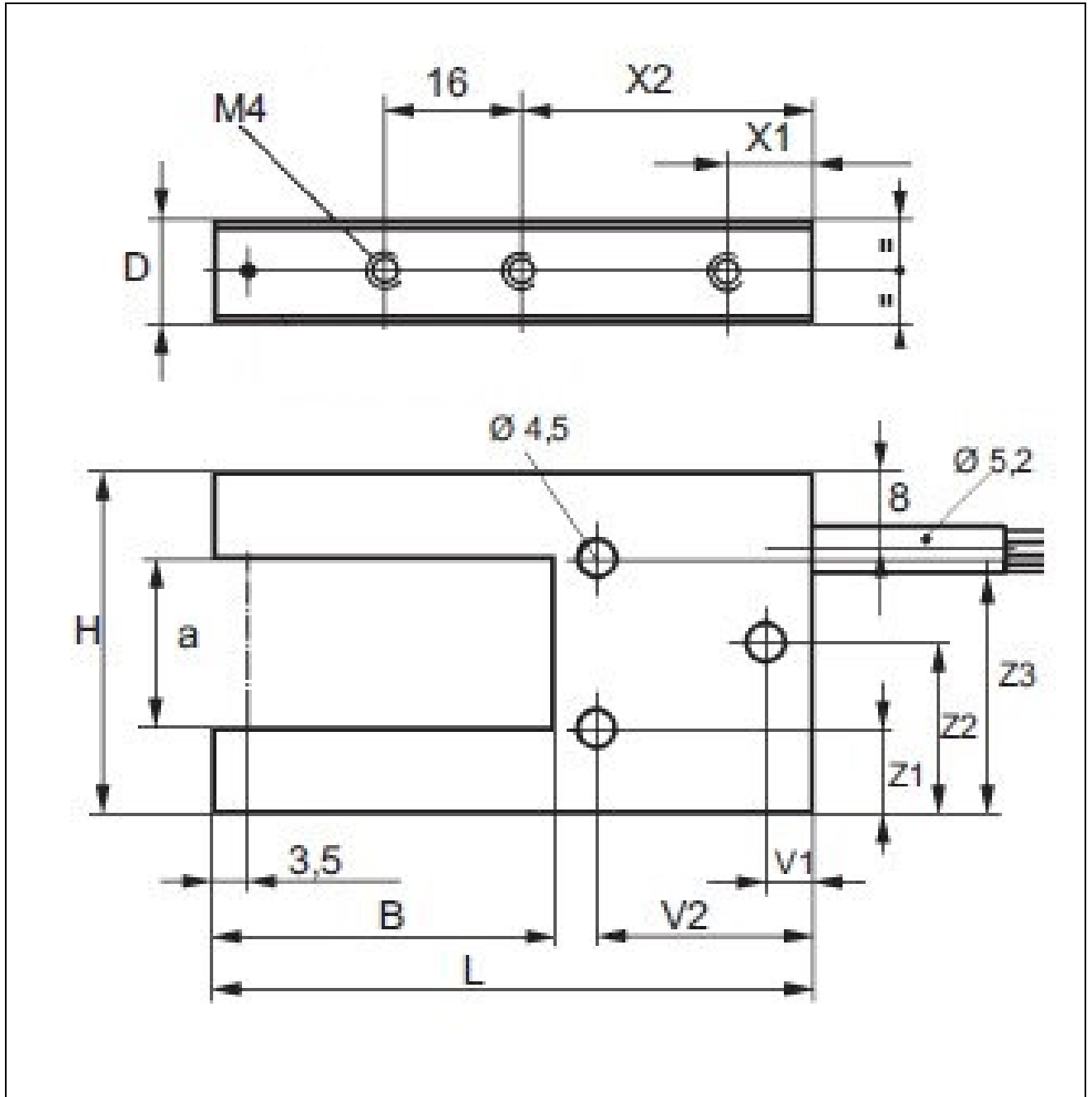
type: FG

dimensions

FG

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fork light barrier

type: FG

FG

5003 010x 0000

Apr-21

pin assignment

M16, 7pin (6410 4041 xxxx)

colour	Pin	operation
-	1	n.c.
-	2	jumper to 3
-	3	jumper to 2
white or yellow	4	signal
green and shield	5	GND 0V
brown	6	UB
-	7	n.c.

M12, 4pin (6200 0627)

colour	Pin	operation
brown	1	UB
-	2	n.c.
green and shield	3	GND 0V
white or yellow	4	signal

M8, 3pin (6200 01569)

colour	Pin	operation
brown	1	UB
white or yellow	4	signal
green and shield	3	GND 0V

subject to change

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