

reflected-light barrier

type: FRL 1/2



picture alike

FRL 1/2

5101 90xx

Apr-21

- _ universal sensor
- _ flexible applications
- _ switching state indicator
- _ dirt indicator
- _ distance adjustable
- _ replaceable optics
- _ integrated amplifier

application range

position detection

technical data

feature	
voltage supply	10 .. 30 V DC
max. current	app. 25mA
transmitter	IR, 880nm class 2
receiver	phototransistor
housing	brass, nickel-plated
output	PNP/NPN* 200mA
distance (typ.)	adjustable 5.....1.500mm*
switching frequency	1 kHz
distance hysteresis	10% of adjusted distance
operation indicator	LED green
dirt indicator	LED red
switching state indicator	LED yellow

subject to change

TRsystems GmbH, system area
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www.unidor.de

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ambient conditions

operating temperature range	-20 .. + 60°C
enclosure rating	IP 65

* output selectable NPN/PNP light- or dark-switching
distance adjustable, by application of fiberglass optics (GM) different

order data / types

type	description	order number
FRL 1	FMS 30-34 U55 amplifier M30	5101 9078
union nut	M30	5101 9079
FRL 2	FMS 18-34 U amplifier M18	5101 9077
union nut	M18	5101 6078
ZT 205 plug	M16 7- pin own manufacture	6330 0040 0000
M12 plug	4-pin own manufacture	6200 0627
M8 plug	3-pin own manufacture	6200 01569

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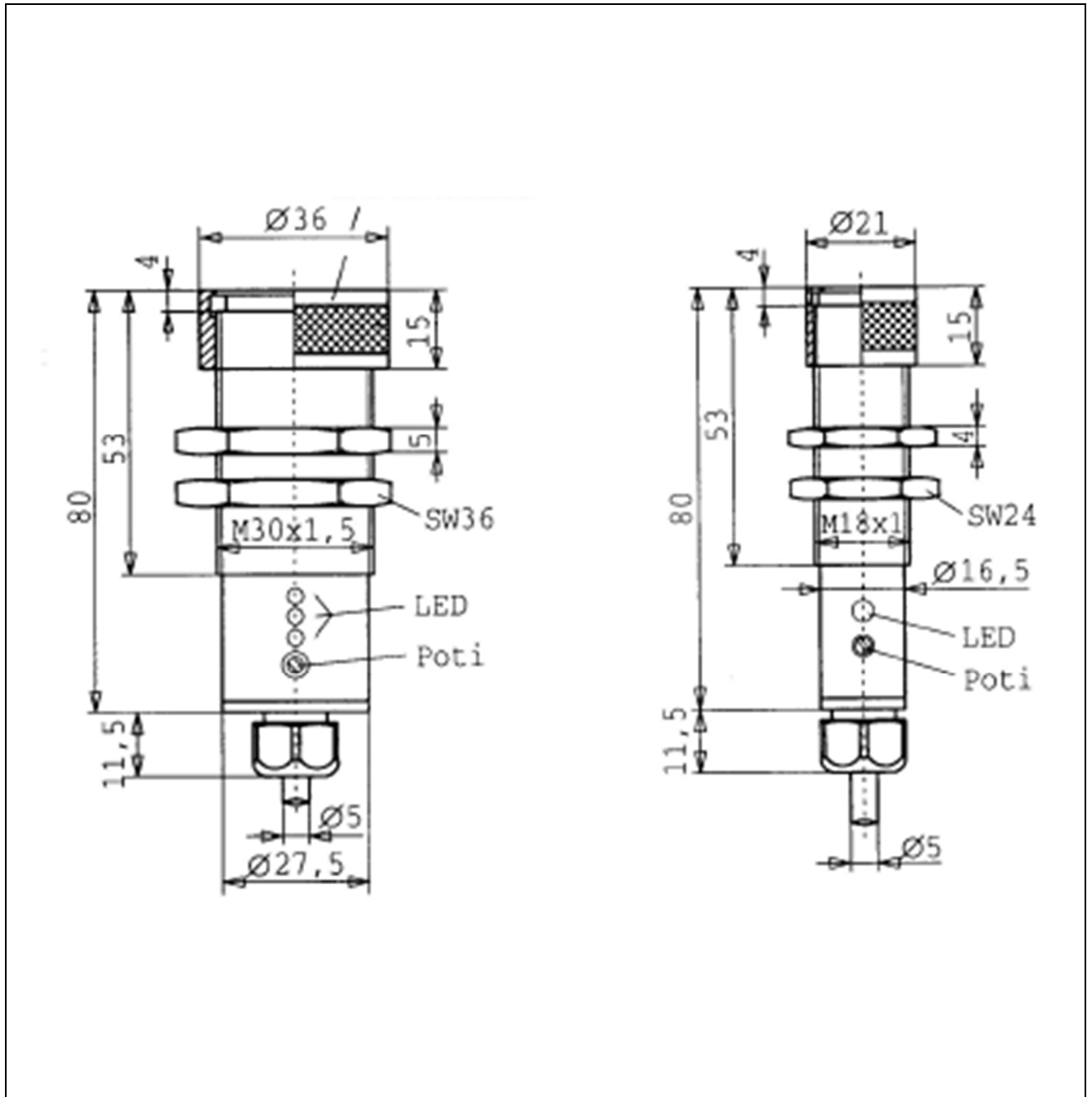
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dimensions



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pin assignment

type	brown	blue	black	white
FRL 1 FMS 30-34 U55	+24V DC	GND (0V)	output PNP	output NPN
FRL 2 FMS 18-34 U	+24V DC	GND (0V)	output PNP	output NPN

M16, 7pin (6410 4041 xxxx)

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

M12, 4pin (6200 0627)

colour	Pin	operation
brown	1	UB
-	2	n.c.
blue	3	GND 0V
white or black	4	signal

M8, 3pin (6200 01569)

colour	Pin	operation
brown	1	UB
white or black	4	signal
blue	3	GND 0V

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