



Micro Detectors

Italian Sensors Technology



FC5 Optical Fork



Photoelectric Sensors
Catalogue

CAT3EFC1371601

Catalogue FC5 - english - Ed.01/2013





Products

FC5
fork

Series **FC5**

Fork

www.microdetectors.com

Industries and applications

Production processes

Packaging lines

Beverage industry



Main Features

Plug and Play without adjustment

High power RED LED emission

Minimum size object detection 0,8 mm

Metal housing

LED Indicator high Visibility

Switching frequency 4 KHz

-10...+60 °C operating temperature range

3 wires: PNP or NPN, Lo/Do

M8 connectors 3pins

Certifications



Protection degree

IP67





Products

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FC5 optical fork

FC5 forks have a metallic body and do not have an adjusting system. Thanks to their simplicity, the installation and functioning are fast and easy. The output state is all-around-visible thanks to the orange led, fitted on the rear side of the sensor.

There is a wide range of 3 wires models: NPN or PNP, LightON or DarkON, forks from 50 mm up to 124 mm large and from 60 mm up to 120 mm wide, covering a wide range of applications.

FC5 forks have a IP67 certification degree and are available with M8 3 pins connector.

Pack content

Further commercial and technical documents available

High resolution pictures

Customization already tested

-

Minimum quantity that can be ordered

1 pcs

Code description

	FC5	R	/	D	P	-	05	06	-	1	F
FC5	Fork detection for objects										
R	LED red emission										
D	Dark ON										
L	Light ON										
P	PNP digital output										
N	NPN digital output										
05	Width slit detection 50 mm										
08	Width slit detection 80 mm										
12	Width slit detection 120 mm										
06	Depth slit detection 60 mm										
12	Depth slit detection 124 mm										
1	Metal housing - aluminium										
F	Plug M8 3 pin										

Available models

supply	installation	width	depth	NPN Lo	PNP Lo	NPN Do	PNP Do
12 ... 24 Vcc	M8 3 pins	50 mm	60 mm	FC5R/LN-0506-1F	FC5R/LP-0506-1F	FC5R/DN-0506-1F	FC5R/DP-0506-1F
		80 mm	60 mm	FC5R/LN-0806-1F	FC5R/LP-0806-1F	FC5R/DN-0806-1F	FC5R/DP-0806-1F
		120 mm	124 mm	FC5R/LN-1212-1F	FC5R/LP-1212-1F	FC5R/DN-1212-1F	FC5R/DP-1212-1F




Products

FC5
fork

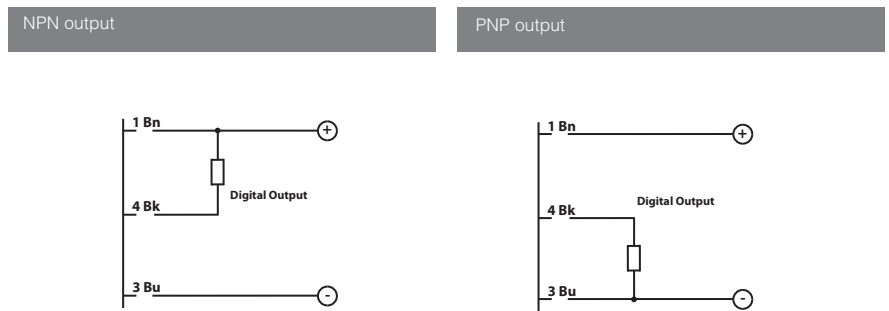
Specifications

according to IEC EN 60947-5-2

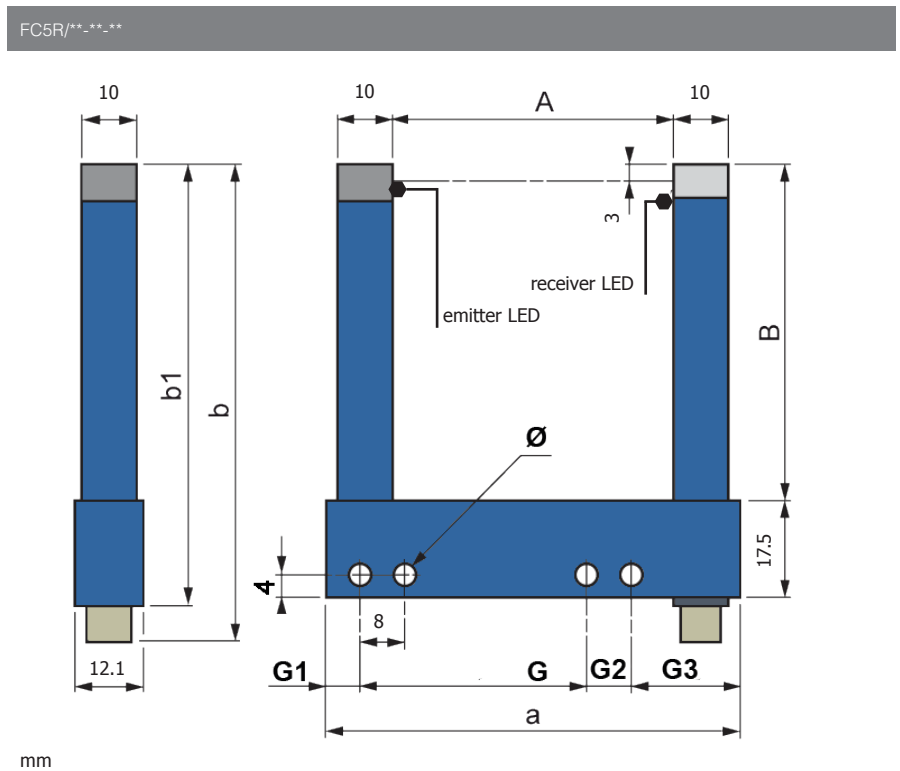
	
models	FC5R/**-**-**
Nominal sensing distance S_n	50...120 mm
minimum size of object detected	0.8 mm
emission	red LED, modulation of light
interference to external light	10.000 lux (5.000 lux incandescent lamp)
rated operational voltage U_e	12 ... 24 Vdc (with protection against reverse polarity)
max ripple content	10%
no-load supply current	<20 mA
load current	100 mA
output voltage drop	< 1.5 V @ $I_L=100$ mA
switching frequency	4.000 Hz
supply electrical protections	Inverse-polarity protected. Short-circuit output protected. Interference suppression.
operation temperature range	- 10 ... + 60 °C
storage temperature	- 40 ... + 80 °C
protection degree	IP67 (EN60529)
time delay before availability	150 ms max
housing material	Painted aluminium and polyamide/glass
plug	M8 3 pins
weight approx.	80 g to 190 g

BN	brown
BU	blue
BK	black
WH	white

Electric diagrams of the connections



Dimensions



models	width slit detection	depth slit detection	a	b	b1	G	G1	G2	G3	Ø
FC5R/**-0506-1F	50	60	74	85.7	77.5	40	6.5	8	19,5	4 x 4.3
FC5R/**-0806-1F	80	60	104	85.7	77.5	70	6.5	8	19,5	4 x 4.3
FC5R/**-1212-1F	120	124.3	144	150.2	142	100	17	10	17	4 x 4.3



Catalogue
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