FC5 series

Photoelectric fork for objects detection without regulation

features

- Plug and Play without adjustment
- High power RED LED emission
- Minimum size object detection 0,8 mm
- Metal housing
- Connettore M8 a 3 pins
- LED Indicator high visibility
- Switching frequency 4 KHz
- -10…+60 °C operating temperature range
- 3 wires: PNP or NPN, LO or DO

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code description

FC5 R / D P - 05 06 - 1 F

series	FC5	Fork detection for objects
emission	R	LED red emission
light / dark	D	Dark ON
	L	Light ON
PNP / NPN output	P	PNP digital output
	N	NPN digital output
width slit detection	03	Width slit detection 30 mm
	05	Width slit detection 50 mm
	08	Width slit detection 80 mm
	12	Width slit detection 120 m
	18	Width slit detection 180 mm
depth slit detection	03	Depth slit detection 40 mm
	06	Depth slit detection 60 mm
	12	Depth slit detection 124 mm
housing	1	Metal housing - aluminium
plug	F	Plug M8 3 pin

available models

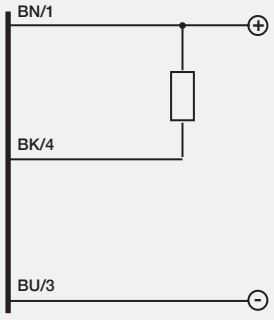
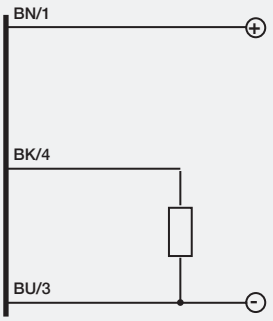
supply	installation	width (mm)	depth (mm)	LO		DO	
				NPN	PNP	NPN	PNP
12...24 Vdc	M8 3 pins	30	40	FC5R/LN-0303-1F	FC5R/LP-0303-1F	FC5R/DN-0303-1F	FC5R/DP-0303-1F
		50	60	FC5R/LN-0506-1F	FC5R/LP-0506-1F	FC5R/DN-0506-1F	FC5R/DP-0506-1F
		80		FC5R/LN-0806-1F	FC5R/LP-0806-1F	FC5R/DN-0806-1F	FC5R/DP-0806-1F
		120	124	FC5R/LN-1212-1F	FC5R/LP-1212-1F	FC5R/DN-1212-1F	FC5R/DP-1212-1F
		180		FC5R/LN-1812-1F	FC5R/LP-1812-1F	FC5R/DN-1812-1F	FC5R/DP-1812-1F

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technical specification

	FC5R/**-**-**	FC5R/**-18*-**
		
nominal sensing distance	30...120 mm	180 mm
minimum detectable object	0.8 mm	1.2 mm
emission	red LED, modulation of light	
external ligth interference	10,000 lux (5,000 lux incandescent lamp)	
operating voltage	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 @ IL = 100 mA	
switching frequency	4,000 Hz	
power supply protections	inverse-polarity protected short-circuit output protected interference suppression.	
temperature range	- 10 ...+ 60 °C	
storage temperature	- 40 ...+ 80 °C	
protection degree	IP67 (EN60529)	
power on delay	150 ms max	
housing material	painted aluminium and polyamide/glass	
plug	M8 3 pin	
weight (approximate)	60 ...250 g	

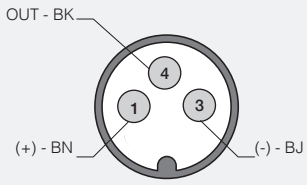
electrical diagrams of the connections

NPN	PNP
	

BN	brown
BU	blue
BK	black
WH	white
PK	pink
GY	gray

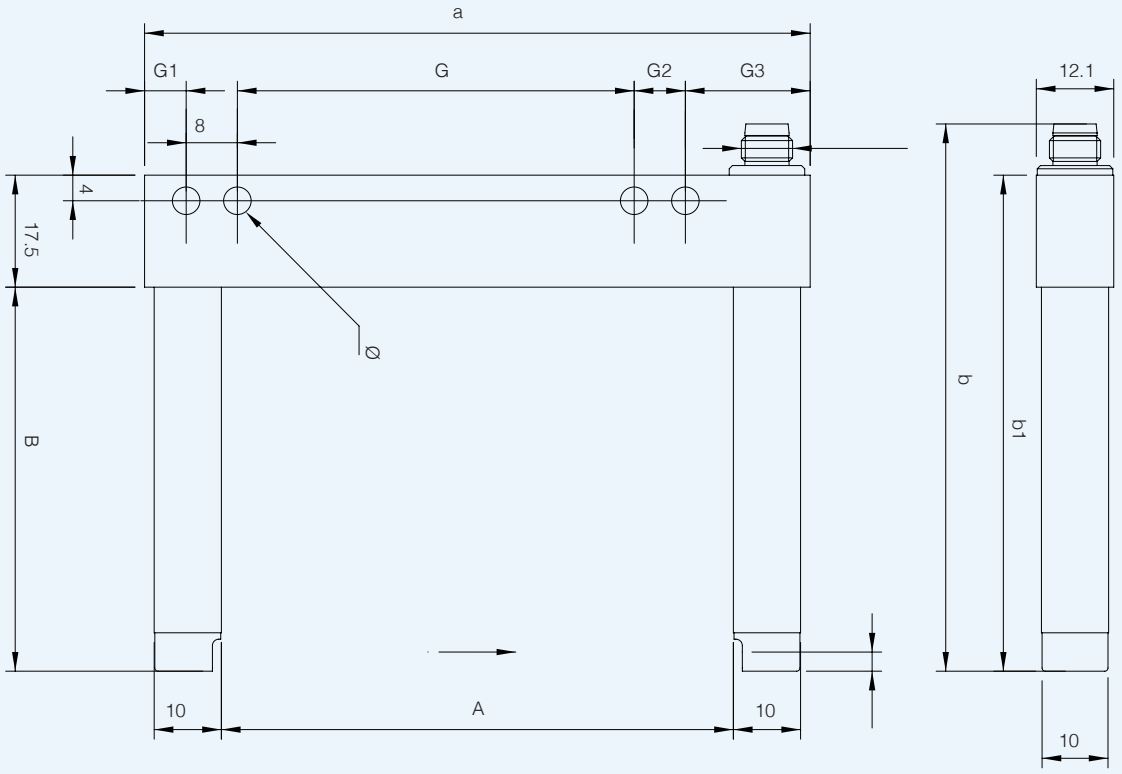
plug

M8 FC5R/-**-****



dimensions (mm)

FC5R/-**-****



models	A (width slit detection)	B (depth slit detection)	a	b	b1	G	G1	G2	G3	Ø
FC5R/**-0303-IF	30	40	54	65.7	57.5	30	17	-	-	4 x 4.3
FC5R/**-0506-IF	50	60	74	85.7	77.5	40	6.5	19.5	8 x 19.5	4 x 4,3
FC5R/**-0806-1F	80	60	104	85.7	77.5	70	6.5	19.5	8 x 19.5	4 x 4.3
FC5R/**-1212-1F	120	124.3	144	150.2	142	100	17	17	8 x 17	4 x 4.3
FC5R/**-1812-1F	180	124.3	144	150.2	142	152	22	8	22	4 x 4.3