FC7 series

Photoelectric fork sensors for labels detection

features

- **Dinamic Teach-in or control panel and manual adjustment with "+/-" buttons**
- **Minimum object detection 2 mm (gap between labels), 2 mm (label size)**
- **Infrared emission**
- **Light/Dark switching, selectable by button**
- **Switching frequency 10 kHz**
- **M8 connectors (4 pins): PNP or NPN, LO/DO selectable**
- **-20 ...+60 °C temperature range**



web contents

- **Application notes**
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code description

FC7 I / 0 P - M3 04 - 0 F

series	FC7	Fork for labels
emission	I	LED Infrared emission
output	0	LO/DO output selectable, remote teach
PNP / NPN output	P	PNP digital output
	N	NPN digital output
	B	NPN / PNP digital output
width	M3	Width slit detection 3 mm
depth	04	Depth slit detection 42 mm
housing	0	Thermoplastic case
plug	F	M8 plug 4 pin

available models

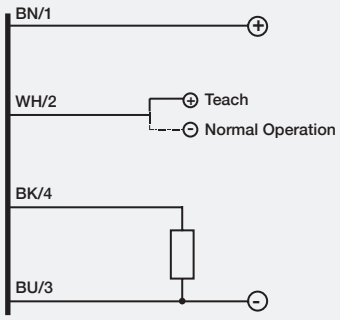
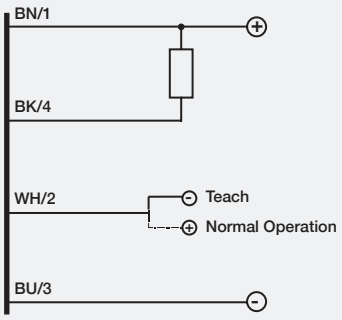
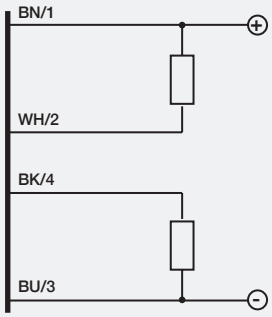
supply	installation	PNP	NPN	NPN / PNP
12...24 Vdc	M8 4 pins	FC7I/0P-M304-0F	FC7I/0N-M304-0F	FC7I/0B-M304-0F

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Instrumentación | Proyectos | Servicios

technical specification

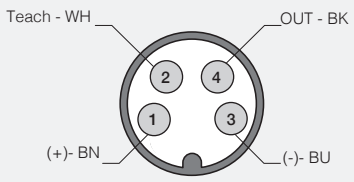
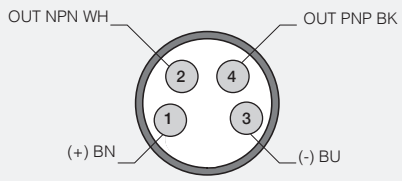
	FC7I/**-**-**
	
nominal sensing distance	3 mm
minimum lenght of label	2 mm
minimum distance between 2 labels	2 mm
slot depth detection	42 mm
slot width detection	3 mm
emission	infrared
maximum flow rate	200 m/min
detection accurancy	+/- 50 µm at 150 m/min
operating voltage	12 … 24 Vdc (with protection against reverse polarity)
max ripple content	10%
no-load supply current	35 mA
load current	100 mA
output voltage drop	≤ 2 V @ IL = 100 mA
switching frequency	10 kHz
power on delay	50 us max
power supply protections	polarity reversal, transient
temperature range	- 20 ...+ 60 °C
storage temperature	- 30 ...+ 80 °C
protection degree	IP65, IEC (EN60529)
housing material	PA
plug	M8 4 pins
weight (approximate)	35 g

electrical diagrams of the connections

PNP	NPN	NPN / PNP
		

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

plug

M8 FC7/**-**-**	M8 FC7/0B-**-**
	

dimensions (mm)

FC7I/**-**-**

