

Italian Sensors Technology



FC7 Optical Fork for labels





CAT3EFC1372201 Catalogue FC7 - english - Ed.01/2013





Series FC7

Fork



www.microdetectors.com

Industries and applications

label recognition labels counting and positioning double sheet detection band-aids detection



Main 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

PA housing

M8 connectors (4 pins): PNP or NPN, Lo/Do selectable

-20 ...+60 °C operating temperature range

Certifications



Protection degree

IP65



C-W









FC7 optical fork for labels

FC7 forks have a very strong thermoplastic housing. Thanks to its thin form and its design, it has been thought for the labeling process.

Its high switching frequency (10 kHz) and low response time allow to detect fast moving labels with high repeatability precision.

Infrared light emission.

Simple and accurate adjustment by -/+ buttons.

The adjustment can be made during the label strip processing.

The NPN or PNP output, Light ON and Dark ON modes are configurable through a push-button, the forth wire is the remote Teach-in.

Available with M8 4 pins connector.

IP65 protection degree.

Pack content

Installation manual (English + Italian): CAT8BFC1362301

Further commercial and technical documents available

High resolution pictures

Customization already tested

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Minimum quantity that can be ordered

1 pcs



Available models

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



Specifications

according to IEC EN 60947-5-2

models	FC7I/**-**-	
nominal sensing distance sn	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 um at 150 m/min	
rated operational voltage ue	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	
time delay before availability	50 us max	
supply electrical protections	Polarity reversal, transient	
operation temperature range	- 20+ 60 °C	
storage temperature	- 30+ 80 °C	
protection degree	IP65, IEC (EN60529)	
housing material	PA	
plug	M8 4 pins	
weight approx.	35 g	
weight applox.		



Electric diagrams of the connections



Dimensions





Catalogue Photoelectric Sensors





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