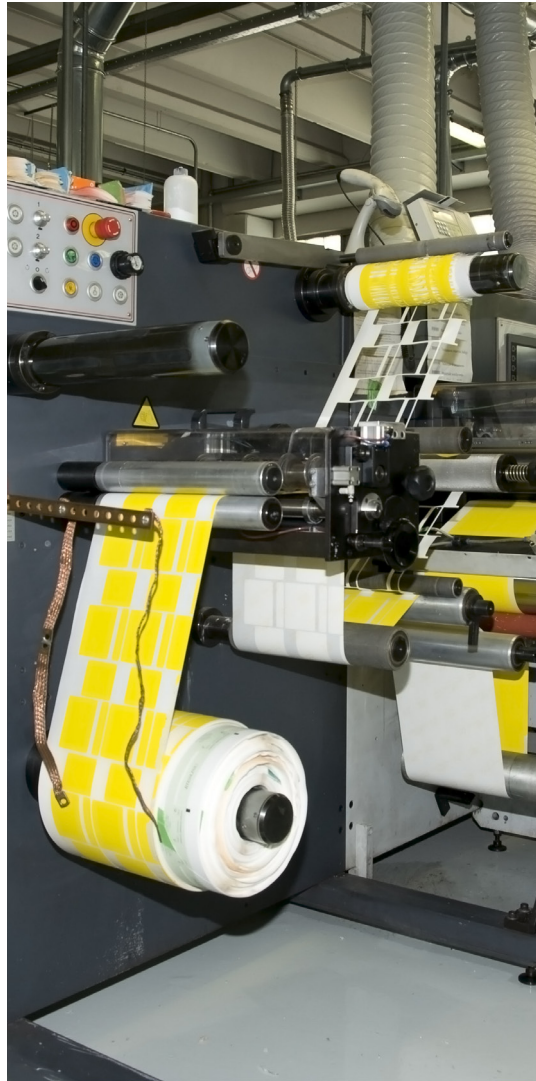




Micro Detectors

Italian Sensors Technology



FC8 Ultrasonic Fork for labels



Ultrasonic Sensors
Catalogue

CAT3EFC1372501

Catalogue FC8 - english - Ed.01/2013





Products

FC8
fork

Series FC8

Fork

www.microdetectors.com

Industries and applications

Detection of double labels, or labels either on transparent strip or coloured one

Packaging

Labelling machine

Paper and Printing Machine



Main Features

Ultrasonic fork sensor for transparent labels, any opaque material with connector M8 4-pole
Teach-in models with dynamic and remote teach
Ultrasonic technology
Small size easy to locate
NPN and PNP, Lo/Do total configurable
Width slit detection 3 mm
Depth slit detection 69 mm
Maximum switching frequency 1.500 Hz
Aluminum case

Certifications



Protection degree

IP65





Products

FC8
fork

FC8 ultrasonic fork for labels

FC8 forks have a strong aluminium housing. Thanks to its thin form and its design, it has been thought for the labeling process.

Its high switching frequency (1500 Hz) and low response time allow to detect labels placed at 2 mm distance

Simple and accurate adjustment by +/- buttons.

Through the ultrasonic technology it is possible to detect any kind of labels, included the transparent ones positioned on transparent base or on coloured pictures support.

Accurate adjustment possible through the push button +/-, and the remote teach in.

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

Available with M8 4 pins connector.

IP65 protection degree

Pack Content

Installation manual (English + Italian): CAT8BFC1362201

Further commercial and technical documents available

High resolution pictures

Customization already tested

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Minimum quantity that can be ordered

1 pcs

Code description

FC8	U	/	0	P	-	M3	07	-	1	F
FC8	Ultrasonic fork for labels									
U	Ultrasonic									
0	Lo/Do output selectable, remote teach									
P	PNP digital output									
N	NPN digital output									
M3	Width slit detection 3 mm									
07	Depth slit detection 69 mm									
1	Metal housing - aluminium									
F	M8 plug 4 pin									

Available models

supply	installation	PNP	NPN
12 ... 24 Vdc	M8 - 4 Pins	FC8U/0P-M307-1F	FC8U/0N-M307-1F




Products

FC8
fork

Specifications

according to IEC EN 60947-5-2

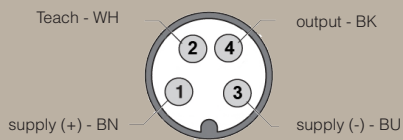
	
models	FC8U/0*-M307-1F
nominal sensing distance sn	3 mm
minimum length of label	2 mm
minimum distance between 2 labels	2 mm
slot depth detection	69 mm
slot length detection	-
emission	ultrasonic
maximum flow rate	180 m/min
detection accuracy	+/- 0.20 mm at 120 m/min
rated operational voltage ue	12 ... 24 Vdc (with protection against reverse polarity)
max ripple content	10%
no-load supply current	45 mA
load current	100 mA
output voltage drop	< 2 V @ IL=100 mA
switching frequency	1,500 Hz
time delay before availability	300 us
supply electrical protections	Short-circuit output protected Interference suppression
operation temperature range	+5 ...+55 °C
storage temperature	-20 ...+70 °C
protection degree	IP65 (EN60529)
housing material	painted aluminium
plug	M8 4 pins
weight approx.	130 g

BN	brown
BU	blue
BK	black
WH	white

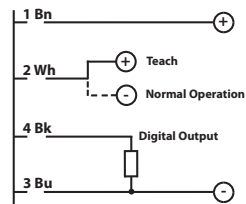
Electric diagrams of the connections

M8

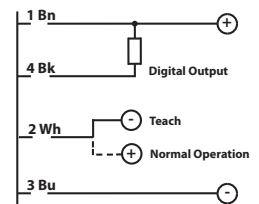
FC8/**_**_**



PNP output

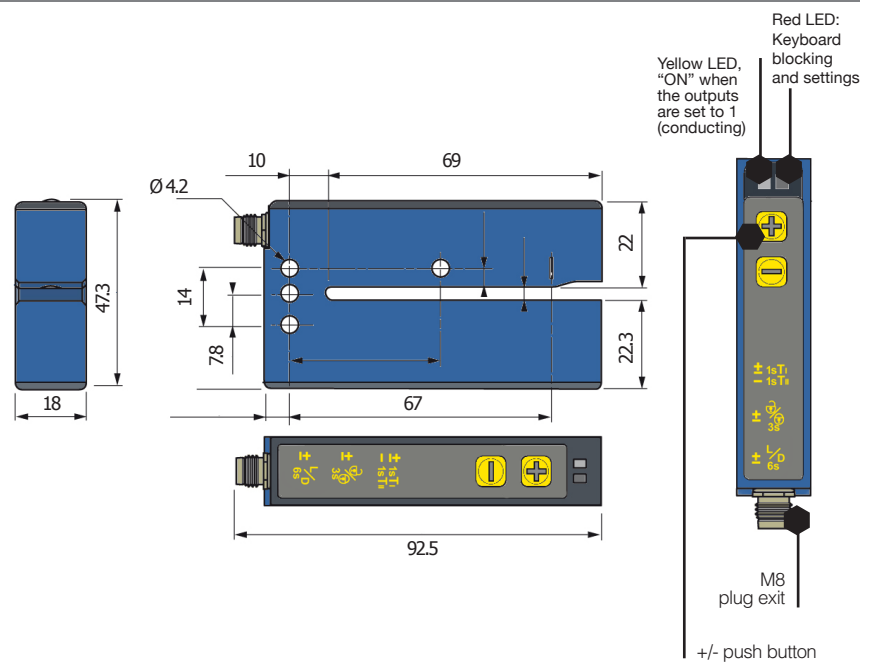


NPN output



dimensions

FC8U/**_**_**



mm



Catalogue
Ultrasonic Sensors



CAT3EFC1372501 CATALOGUE ULTRASONIC FORK SENSOR FC8 ENG ED.01/2013

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page of M.D. Micro Detectors website:
www.microdetectors.com