FC8 series

Ultrasonic fork sensors for label detection

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; aluminum case**
- **NPN and PNP, Lo/Do total configurable**
- **Width slit detection 3 mm; depth slit detection 69 mm**
- **Maximum switching frequency 1.500 Hz**



web contents

- **Application notes**
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- **Catalogue / Manuals**

code description

FC8 U / 0 P - M3 07 - 1 F

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

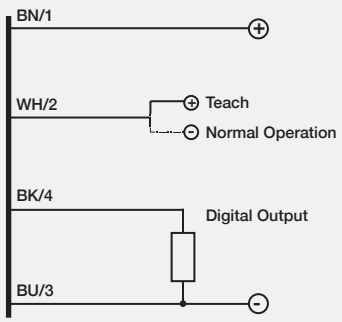
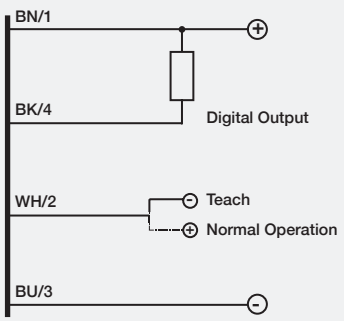
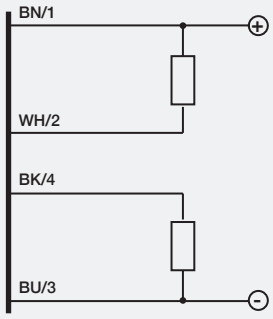
available models

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

technical specification

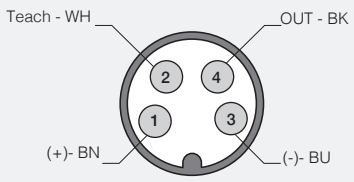
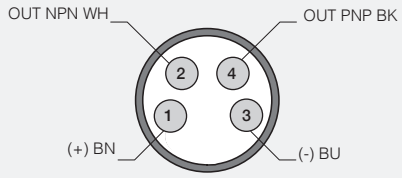
	FC8U/0*-M307-1F
	
nominal sensing distance	3 mm
minimum length of label	2 mm
minimum sensing distance between 2 labels	2 mm
slot depth detection	69 mm
slot lenght detection	-
emission	ultrasonic
maximum flow rate	180 m/min
detection accurancy	+/- 0,20 um at 120 m/min
rated operational voltage	12 … 24 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 kHz
power on delay	300 us
power supply protections	short-circuit output protected interference suppression
operation temperature range	+ 5 ...+55 °C
storage temperature	- 20 ...+70 °C
protection degree	IP65, IEC (EN60529)
housing material	painted aluminium
connection	M8 4 pins
weight approx.	160 g

electrical diagrams of the connections

PNP	NPN	NPN / PNP
		

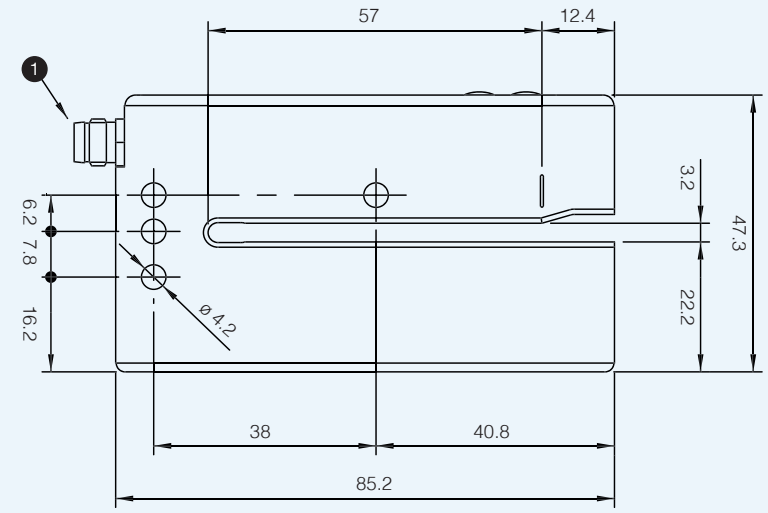
BN	brown
BU	blue
BK	black
WH	withe
PK	pink
GY	gray

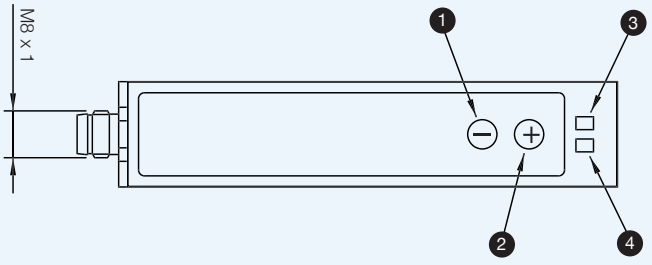
plug

FC8U/0P-**-** FC8U/0N-**-**	FC8U/0B-**-**
	

dimensions (mm)

FC8U/**-**-**





1. button -
2. button +
3. yellow LED, “ON” when the outputs are set to 1 (run)
4. red LED: keyboard lock and regulation