



FC6

FC6L/0B-M510-1F

Slot 5mm width 95mm depth ADJ
PHOTOELECTRIC FORK FOR OBJECTS DETECTION WITH
REGULATION

OVERVIEW

- Simple and accurate adjustment manually by -/+ buttons
- Infrared emission; LASER emission class 1
- Metal housing
- Light/Dark switching, selectable by button
- Minimum size object detection 0,2 mm (FC6I) and 0,05 mm (FC6L)
- -20...+60 °C temperature range
- M8 connectors (4pins): PNP/NPN, LO/DO
- Switching frequency 10 kHz



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	5mm
minimum detectable object	0.05mm
Sensitivity adjustment	Teach-in

Application

Function Principle	Photoelectric slot
Outputs	
Output type	NPN / PNP L/D Selectable
Output Function	L/D Selectable
Switching frequency	10kHz
Response time	50 μs
Electrical data	
Operating Voltage	12...24VDC
No-Load supply current	≤ 40mA
Load current	≤100mA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (status output), Red (adjustment or block keypad)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LASER Red (670nm) class1
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	Width slot detection 5mm - Depth slot detection 95mm
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Housing material	Painted aluminium
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Weight	90g
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Connections	M8 plug 4pin
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Active Head Material	Polyamide/glass
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Operating temperature	- 20°C...+ 50°C
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Storage temperature	- 30°C...+ 80°C
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Width slot detection	5mm
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Depth slot detection	95mm
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Test/Approvals

Approvals	CE
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EMC compatibility	EN 60947-5-2
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Degree of protection	IP65
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Generical Data

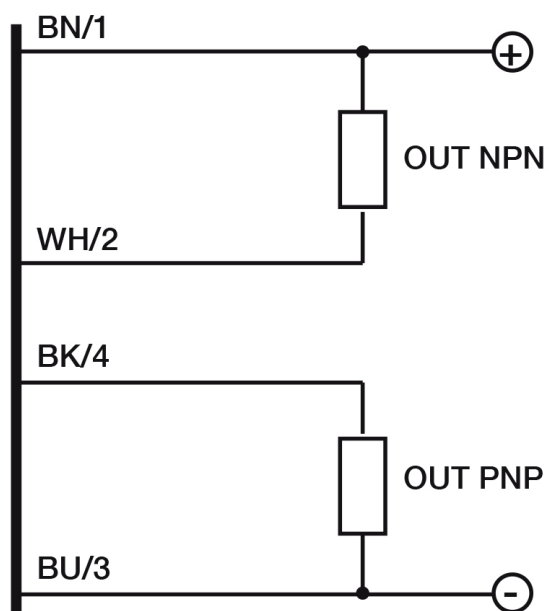
Dimensions	Width slot detection 5mm - Depth slot detection 95mm
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Operating Temperature	- 10°C...+ 60°C (Without freeze)
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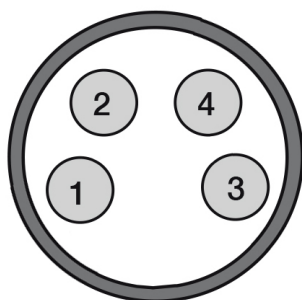
Mechanical Protection	IP65
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CONNECTIONS

Electrical diagram

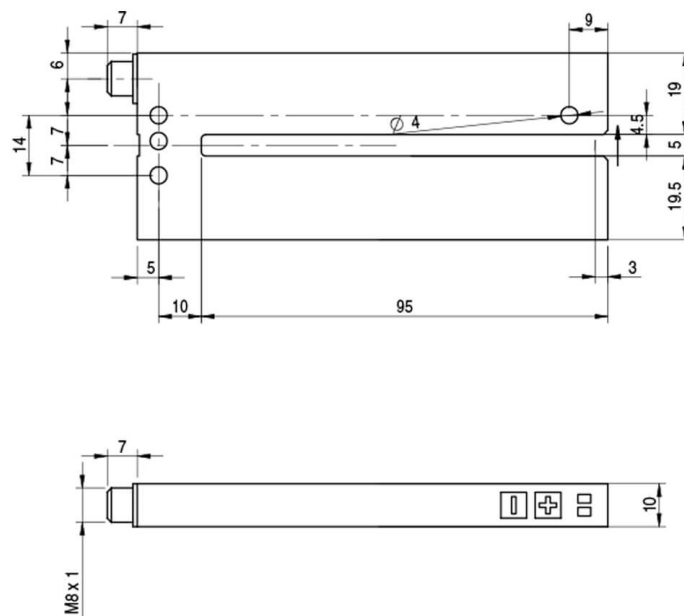


Connector



OTHERS

Dimensions



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**date of
printing**
10/08/2026
07:33:49