

FC5

FC5R/DN-0506-1F

Slot 50mm width RED LED NPN-NO

PHOTOELECTRIC FORK FOR OBJECTS DETECTION WITHOUT REGULATION

OVERVIEW

- Plug and Play without adjustment
- High power RED LED emission
- Minimum size object detection 0,8 mm
- Metal housing
- Connettore M8 a 3 pins
- LED Indicator high visibility
- Switching frequency 4 KHz
- -10…+60 °C operating temperature range
- 3 wires: PNP or NPN, LO or DO

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	50mm
minimum detectable object	0,8mm
Si	Yes
Sensitivity adjustment	No

Application

Function Principle	Photoelectric slot

Outputs

Output type	NPN Don
Output Function	Don
Switching frequency	4kHz
Response time	125µs

Electrical data

Operating Voltage	12...24VDC
No-Load supply current	≤ 20mA
Load current	≤100mA
Output voltage drop	≤1,5V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (status output)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red

Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	Width slot detection 50mm - Depth slot detection 60mm
Housing material	Painted aluminium
Weight	72g
Connections	M8 plug 3pin
Active Head Material	Polyamide/glass
Operating temperature	- 10°C…+ 60°C
Storage temperature	- 40°C…+ 80°C
Width slot detection	50mm
Depth slot detection	60mm

Test/Approvals

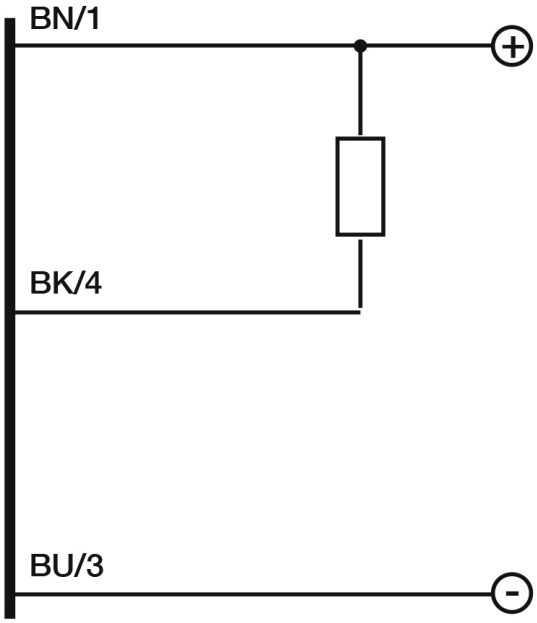
Approvals	CE UL
EMC compatibility	EN 60947-5-2
Degree of protection	IP67

Generical Data

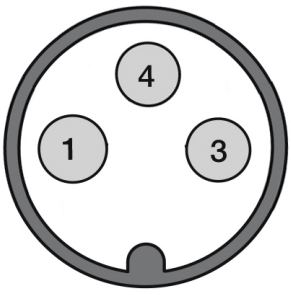
Dimensions	Width slot detection 50mm - Depth slot detection 60mm
Operating Temperature	- 10°C…+ 60°C (Without freeze)
Mechanical Protection	IP67

CONNECTIONS

Eletrical diagram

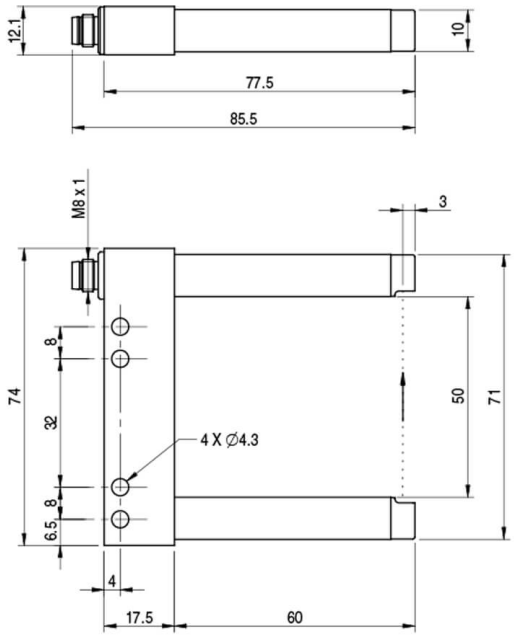


Connector



OTHERS

Dimensions



Datasensing S.r.l.
Strada S.Caterina, 235
41122 Modena (MO)
Tel. 059 420411
Fax 059 253973
E-mail
info@datasensing.com

date of printing
25/11/2026
06:30:40