



QF

QFR8/BP-1F

Photo.Mini,PNP-NO+NC,M8 plug,Diffuse
METALLIC CUBIC MINIATURIZED PHOTOELECTRIC
SENSORS. FOR HARSH ENVIRONMENTS OR FOOD AND
BEVERAGE APPLICATIONS.

OVERVIEW



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	1m
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Diffuse reflection (medium distance, $\leq 600\text{mm}$)
Notes	white target Kodak 90% 400 x 400mm
Emitter/Receiver	

Optic position	Radial 90°
Outputs	
Output type	PNP NO+NC
Output Function	NO+NC
Switching frequency	1Khz
Response time	500μs
Electrical data	
Operating Voltage	10...30VDC
No-Load supply current	≤ 25mA
Load current	≤100mA
Leakage current	≤100μA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (status output), green (stability, powerON)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red (617nm)

Interference to external light	≤10000lux
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	31,4x21x11mm
Housing material	Stainless steel AISI 316L
Weight	65g
Connections	M8 plug 4pin
Active Head Material	PPSU
Operating temperature	- 25°C...+ 60° C (Without freeze)
Storage temperature	-40° ... +70°C
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE cULus ECOLAB
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP68, IP69K

Accessories

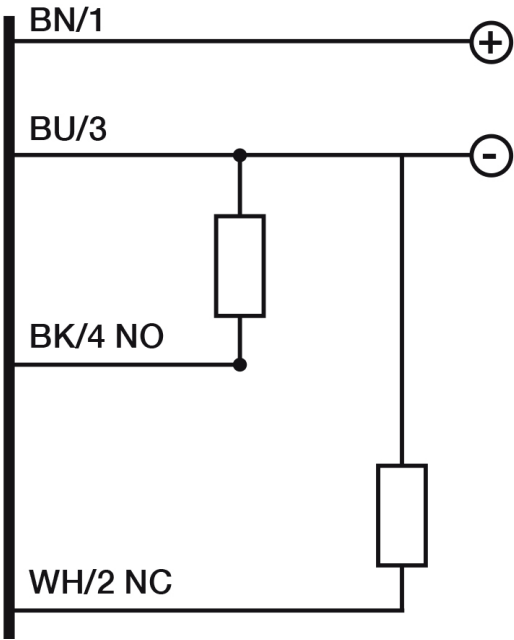
Supplied Accessories	Mouting bracket screwdriver
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Generical Data

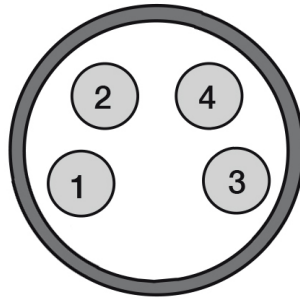
Dimensions	31,4x21x11mm
Operating Temperature	- 15°C...+ 55°C (Without freeze)
Mechanical Protection	IP68, IP69K

CONNECTIONS

Eletrical diagram

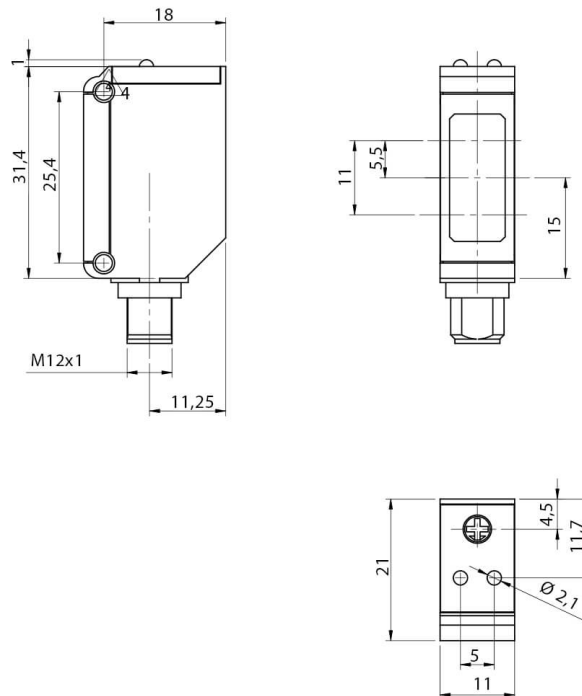


Connector

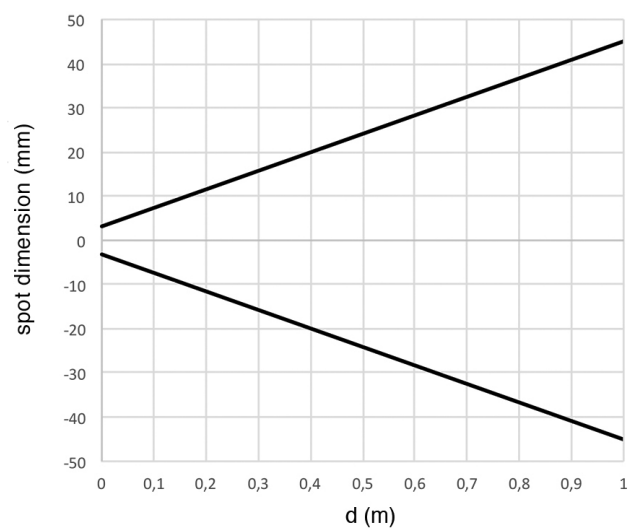


OTHERS

Dimensions



Response curves



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