



QF

QFRS/BP-1A

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

TECHNICAL FEATURES

Detection properties

Nominal sensing distance 200mm

Repeat Accuracy 5%

Sensitivity adjustment Trimmer

Minimum sensing distance (blind zone) 25mm

Application

Function Principle Diffuse reflection (medium distance, $\leq 600\text{mm}$)

Optic position Radial 90°

Outputs

Output type PNP NO+NC

Output Function NO+NC

Switching frequency	500Hz
Response time	1ms

Electrical data

Operating Voltage	10...30VDC
No-Load supply current	≤ 40mA
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	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LED Red (617nm)
Interference to external light	≤10000lux

Mechanical data

Dimensions	31,4x21x11mm
Housing material	Stainless steel AISI 316L

Weight	100g
Connections	2m PVC cable
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

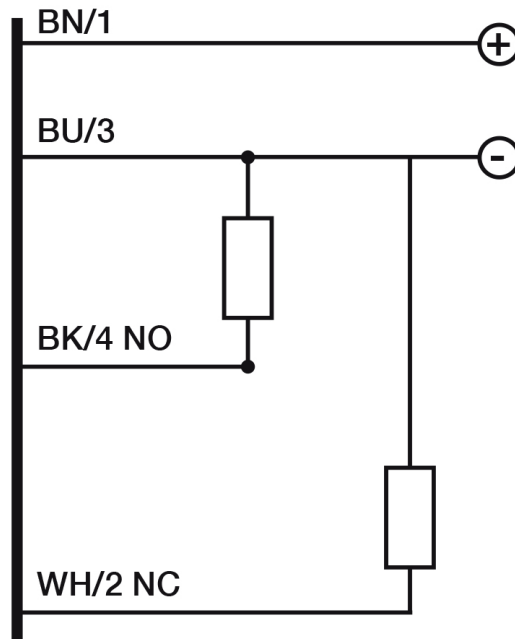
Supplied Accessories	Mouting bracket screwdriver
----------------------	-----------------------------

Generical Data

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

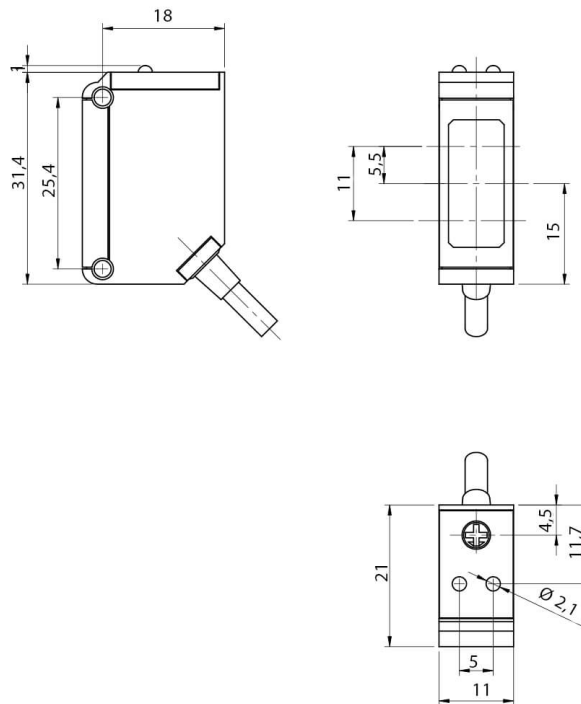
CONNECTIONS

Eletrical diagram

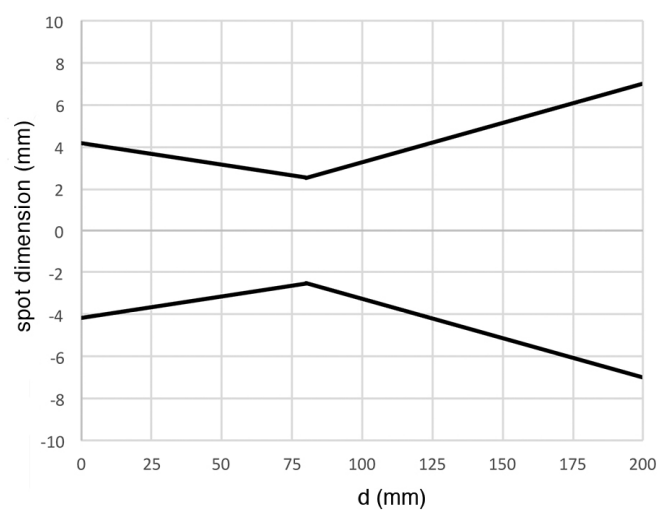


OTHERS

Dimensions



Response curves



**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**
10/08/2026
08:37:25