

DG

DGR/LN-3A

Photo.d10,NPN-LO,Cable,Receiver

Ø 10 MM MINIATURIZED THROUGH-BEAM SENSORS

OVERVIEW

- Ø 10 mm plastic housing 41 mm length
- Ø 13 mm hole irreversibile spring latch fixing
- LED status indicator receiver only
- Complete protection against electrical damages
- IP67 protection degree
- Nominal sensing distance (Sn): 2 m ExG. = 4
- Supply voltage 15...37 Vdc (10...30 Vdc for EA version)
- Approvals: CE

CE

TECHNICAL FEATURES

Detection properties	
Nominal sensing distance	2m
Thermal drift of Sr	≤10%Sr
Sensitivity adjustment	No
Application	
Function Principle	Receiver

Notes	(EG=4)
Emitter/Receiver	Receiver
Optic position	Axial

Outputs

Output type	NPN Lon
Output Function	Lon
Switching frequency	40Hz
Response time	1,25ms

Electrical data

Operating Voltage	15…37VDC
No-Load supply current	≤ 10mA
Load current	≤30mA
Leakage current	≤10µA
Output voltage drop	≤2V@Iload=30mA
Max ripple content	≤10%
LED indicators	Yellow (Output status)
Time delay before availability	≤ 100ms
Short-circuit protection	Yes

Reverse Polarity Protection	Yes
Interference to external light	20.000lux
Impulsive Overvoltage Protection	Yes

Mechanical data

Dimensions	M10x1/L=41mm
Housing material	PC housing / POM fixing ring / ABS cable exit
Weight	210g
Connections	5m PVC cable
Active Head Material	PC
Operating temperature	- 25°C…+ 70° C (without freeze)
Diameter/Dimension	Ø 10mm

Test/Approvals

Approvals	CE
EMC compatibility	EN 60947-5-3
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-27
Degree of protection	IP67

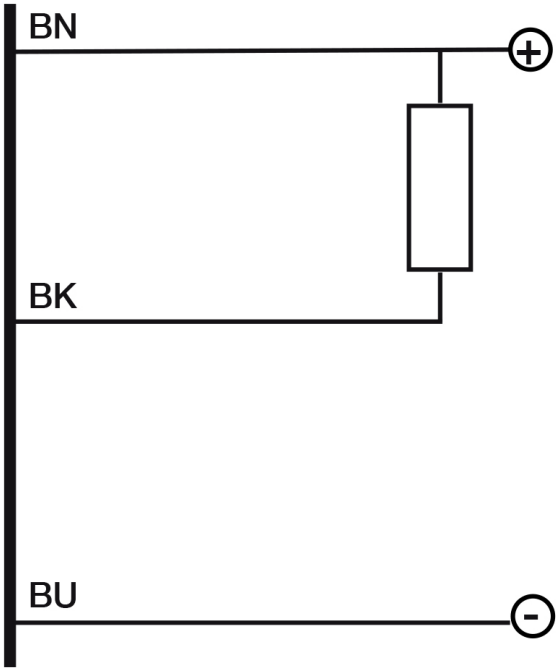
Generical Data

Dimensions	M10x1/L=41mm

Operating Temperature	- 25°C…+ 70°C (Without freeze)
Mechanical Protection	IP67

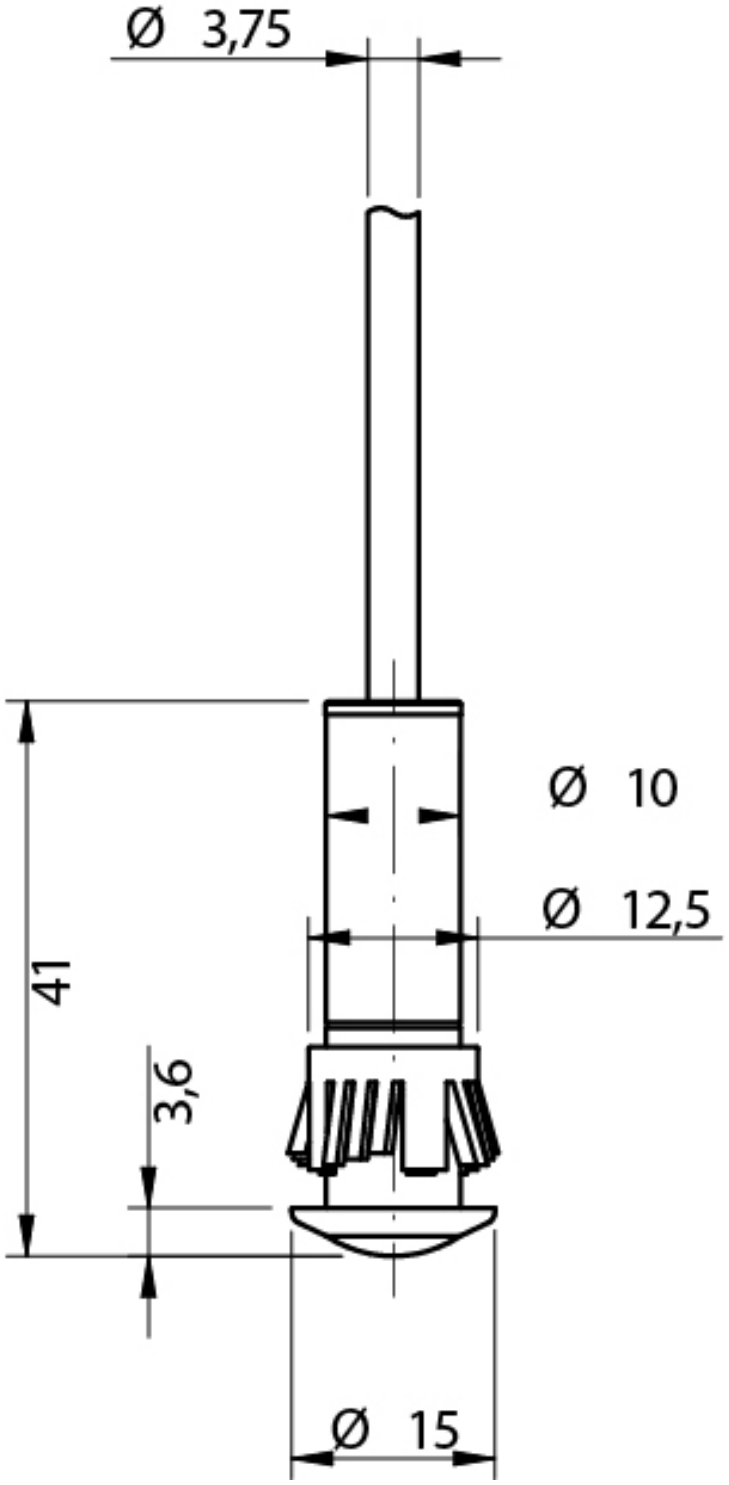
CONNECTIONS

Eletrical diagram

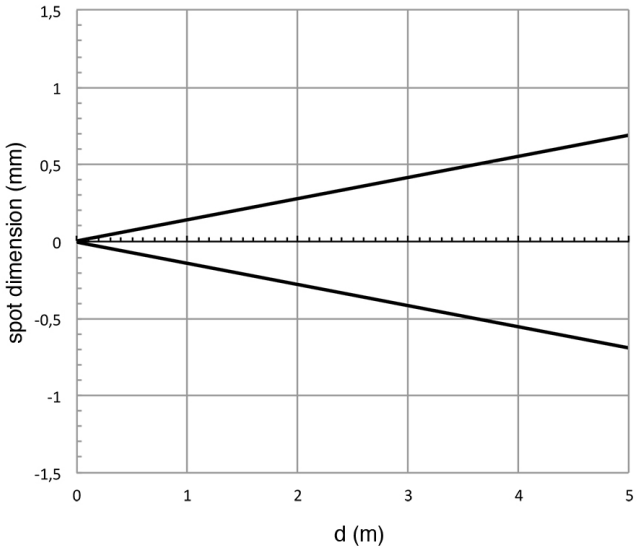


OTHERS

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
04/11/2026
11:11:16