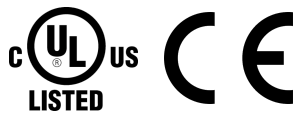


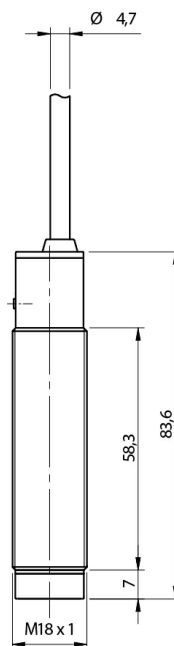


Indicative image



### M18 PHOTOELECTRIC SENSORS DC LASER EMISSION

- Complete range of M18 sensors with 10...30 Vdc power supply
- Axial and radial optic with flat surface
- Visible red laser emission models
- IP67 protection degree
- Metallic or plastic housing
- Sensitivity adjustment available for all models
- Total protection against any type of electric damages
- Approvals: CE and cULus listed



#### Detection properties

Nominal sensing distance	300mm (focalized 100mm) white target 90% Kodak 200x200mm
Thermal drift of Sr	≤10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Teach-in

#### Application

Function Principle	Diffuse reflection (medium distance, ≤600mm)
Optic position	Axial

#### Outputs

Output type	PNP
Output Function	N0+NC
Switching frequency	800Hz

### Electrical data

Operating Voltage	10...30Vdc
No-Load supply current	≤30mA
Load current	≤100mA
Leakage current	≤10μA
Output voltage drop	2V max. IL =100 mA
Max ripple content	10%
LED indicators	Green power supply/yellow (LightON EG≥2)/yellow flashing (LightON 1
Time delay before availability	≤200ms
Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	Red laser diode (650nm) class1 (IEC60825-1)
Interference to external light	3000lux (incandescent lamp), 10000lux (sunlight)

### Mechanical data

Dimensions	M18 x 1/L=83,6mm
Weight	50g
Housing Material	PBT / PC cable exit
Connections	2m PVC cable
Active Head Material	Glass / PC
Tightening torque	1Nm
Operating temperature	-15°C...+ 55°C (Without freeze)
Diameter/Dimension	M18

### Test/Approvals

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

### Accessories

Supplied Accessories	nuts M18 x 1, screwdriver
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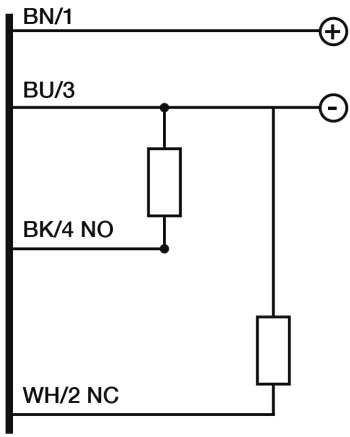
### Generical Data

Dimensions	M18 x 1/L=83,6mm
Operating Temperature	-15°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

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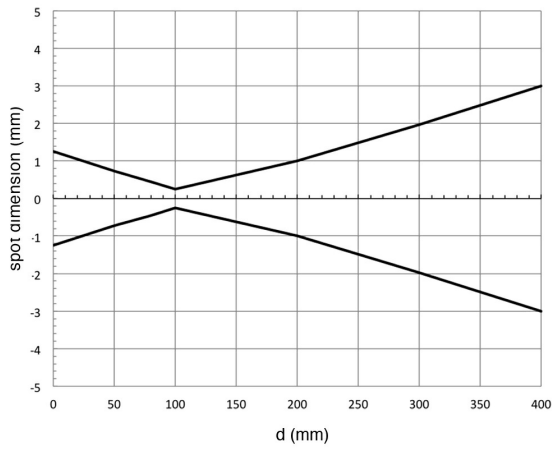
## ELECTRICAL DIAGRAMS OF THE CONNECTIONS

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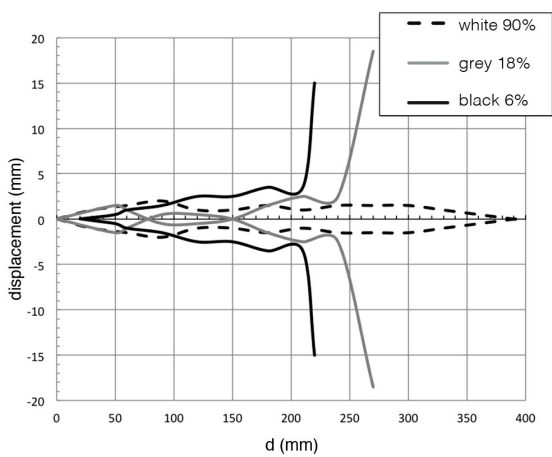


# RESPONSE CURVES

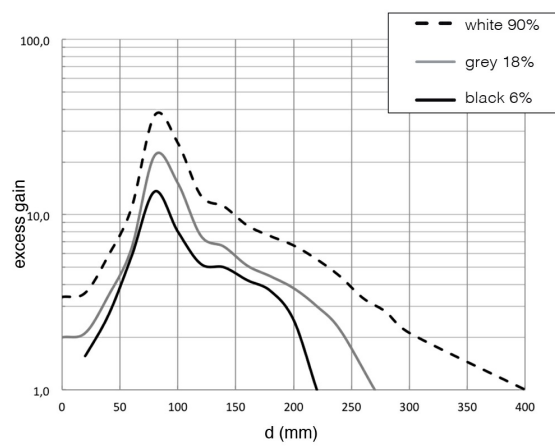
## Dimensione Spot



## Parallel offset



## Excess of Earnings



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