



FA

FARS/BN-0A

Photo.M18,NPN-NO+NC,Cable,BGS
M18 PHOTOELECTRIC SENSORS DC

OVERVIEW

- Complete range of M18 sensors with 10...30 Vdc power supply
- Axial and radial optic with flat surface
- Retro-reflective models for transparent objects detection, with red emission 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



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	130mm
Thermal drift of Sr	$\leq 10\%$ Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer
Minimum sensing distance (blind)	30mm

zone)

Application

Function Principle	Blackground suppression
Notes	white target Kodak 90% 100 x 100mm
Optic position	Axial

Outputs

Output type	NPN 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	≤10μA
Output voltage drop	≤2V@Iload=100mA
Max ripple content	≤10%
LED indicators	Yellow (Lon) or output status Lo/Do
Time delay before availability	≤200ms

Short-circuit protection	Short circuit (autoreset), Overvoltage
Reverse Polarity Protection	Polarity inversal, Impulsive voltage
Emission	LED Red (660nm)
Interference to external light	5000lux (incandescent lamp), 10000lux (sunlight)

Mechanical data

Dimensions	M18 x 1/L=65,5mm
Housing material	PBT / PC cable exit
Weight	50g
Connections	2m PVC cable
Active Head Material	PMMA
Tightening torque	1Nm
Operating temperature	- 25°C...+ 70° 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

Generical Data

Dimensions

M18 x 1/L=67,5mm

Operating Temperature

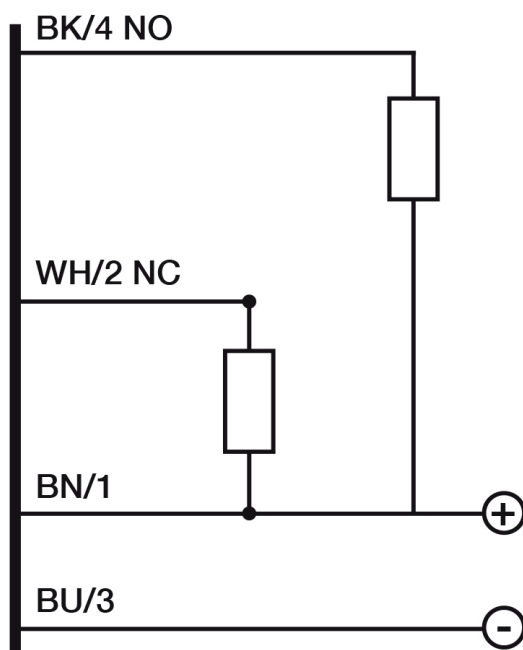
- 25°C...+ 70°C (Without freeze)

Mechanical Protection

IP67

CONNECTIONS

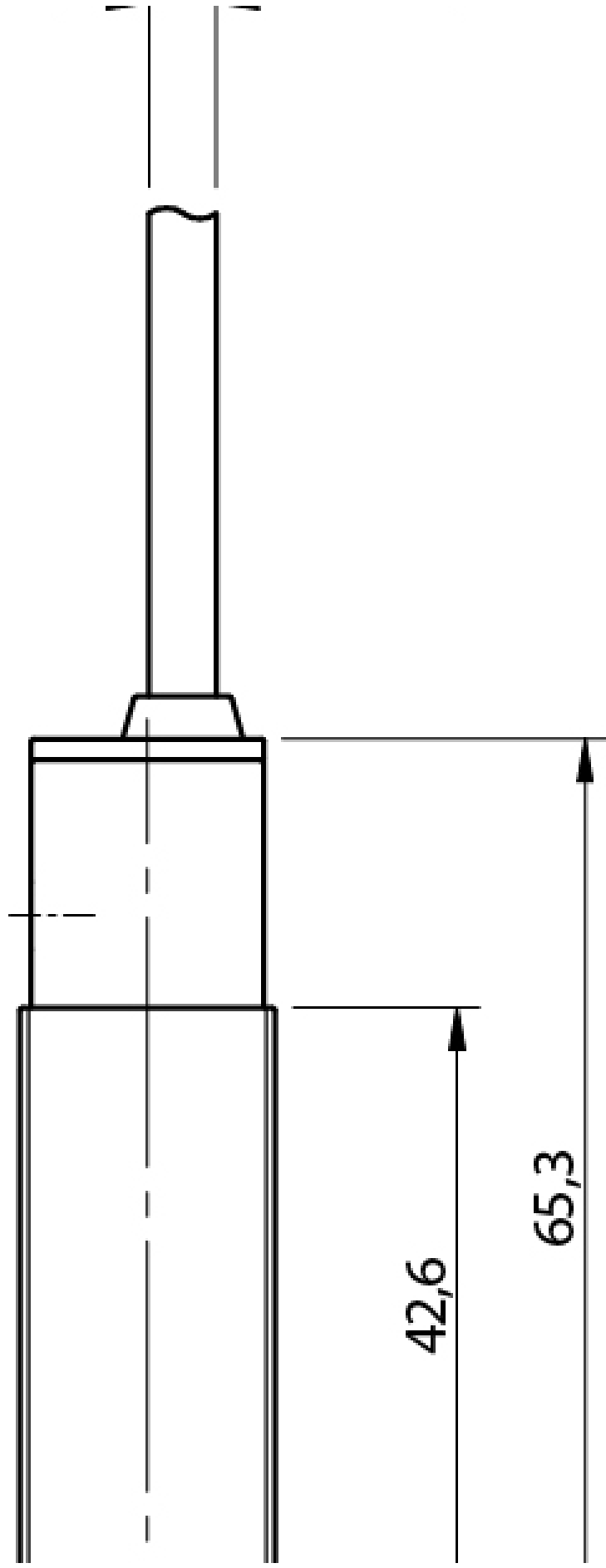
Eletrical diagram

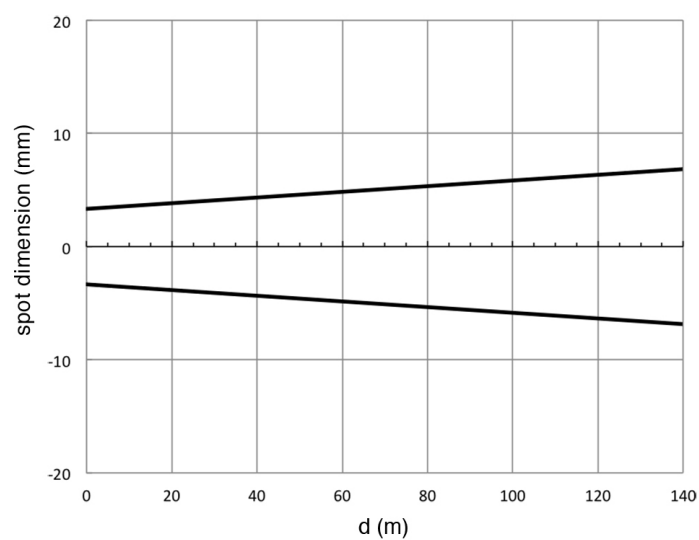
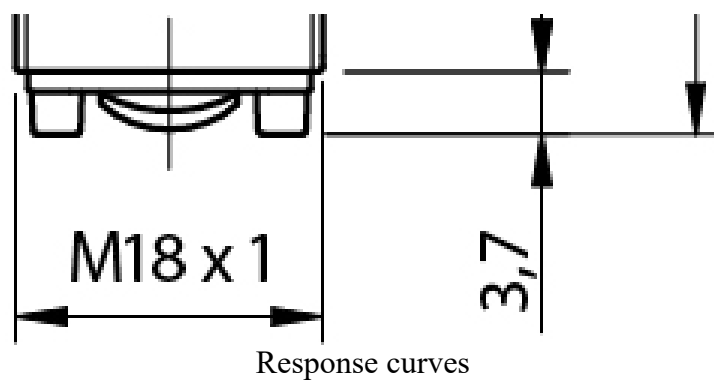


OTHERS

Dimensions







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**date of
printing**
10/08/2026
02:39:17