



SA

SAT/0N-1C

Photo.M18,NPN-NO/NC,Cable 90°,Diffuse
M18 DC HIGH PERFORMANCES WITH REAR ADJUSTMENT

OVERVIEW

- Wide range of models: diffuse, retro-reflective, polarized and fixed-focus
- All models are available with sensitivity adjustment trimmer
- Double LED indicator (ON/OFF - supply)
- NO/NC selectable output
- IP65 protection degree
- Complete protection against electrical damage
- Wide range of plugs, accessories and reflectors available
- Approvals: CE



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12mm
Thermal drift of Sr	10% Sr
Repeat Accuracy	5%
Sensitivity adjustment	Trimmer

Application

Function Principle	Diffuse reflection (short distance, $\leq 200\text{mm}$)
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Notes	white target Kodak 90% 100 x 100mm
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Optic position	Axial
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Outputs

Output type	NPN L/D Selectable
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Output Function	L/D Selectable
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Switching frequency	1Khz
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Response time	500 μs
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Electrical data

Operating Voltage	10...30VDC
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No-Load supply current	$\leq 30\text{mA}$
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Load current	$\leq 100\text{mA}$
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Leakage current	$\leq 10\mu\text{A}$
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Output voltage drop	$\leq 2\text{V}@I_{\text{load}}=100\text{mA}$
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Max ripple content	$\leq 10\%$
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LED indicators	Green (powerON), Yellow (Status output)
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Time delay before availability	$\leq 200\text{ms}$
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Short-circuit protection	Yes
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Reverse Polarity Protection	Yes
Emission	LED Red (660nm)
Interference to external light	3.000lux (incandescent lamp), 10.000lux (sunlight)

Mechanical data

Dimensions	21,4mmx90mm
Housing material	Nickel-plated brass / Nylon cable exit
Weight	140g
Connections	2m PVC cable 90°
Active Head Material	PMMA
Tightening torque	25Nm
Operating temperature	- 25°C...+ 70° C (without freeze)
Diameter/Dimension	M18

Test/Approvals

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

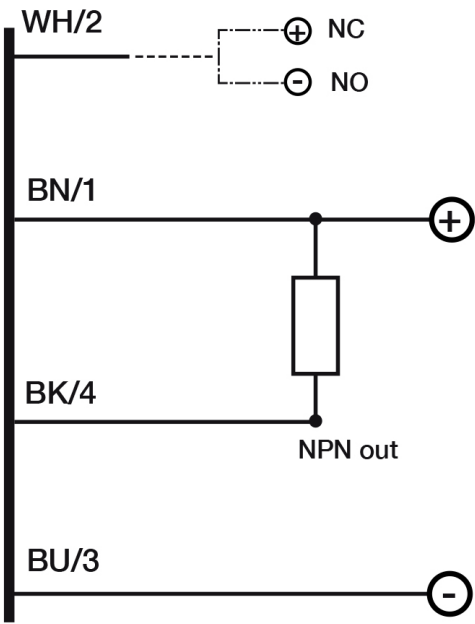
Accessories

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Supplied Accessories	Nuts M18 x 1
Generical Data	
Dimensions	21,4mmx90mm
Operating Temperature	- 25°C...+ 70°C (Without freeze)
Mechanical Protection	IP67

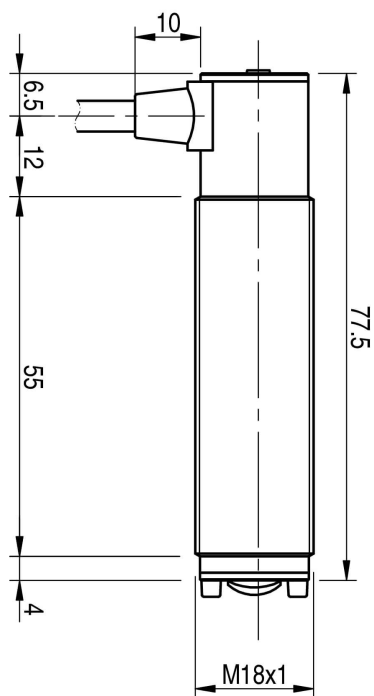
CONNECTIONS

Eletrical diagram

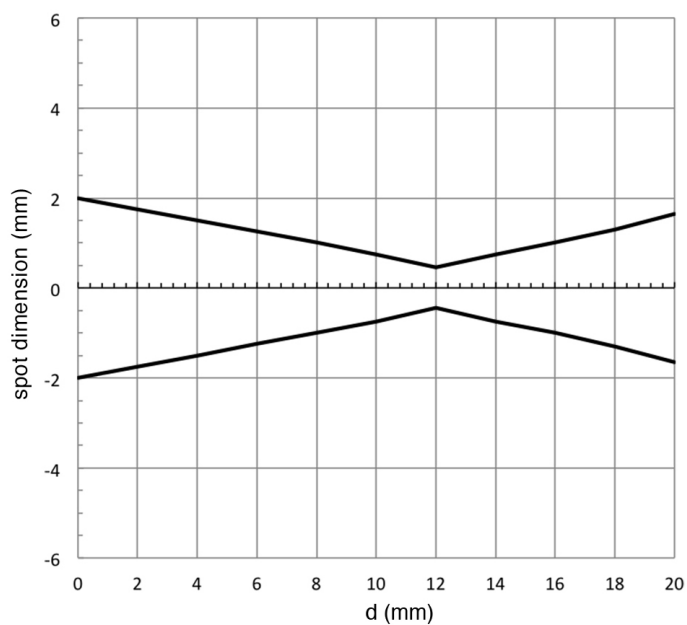


OTHERS

Dimensions



Response curves



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