



FG

FGRN/0N-0A

Photo.Midi,NPN-NO/NC,Cable,Reflex
COMPACT PHOTOELECTRIC SWITCH SENSORS WITH
HIGH PERFORMANCES AND HIGH DETECTION DISTANCES

OVERVIEW

- Cable output or with revolving connector, NPN or PNP output (DC models) and SPDT voltage free relay output (AC models)
- Selectable LO/DO output status
- Totally protected against electrical damages
- Background suppressions models: 310 mm, 600 mm
- Reflex polarized sensitivity adjustment 12 m
- Emitter and Receiver with max detecting range of 50 m
- Double Multifunction LED indicator: output state and using the pointing
- Sensitive adjustment models



TECHNICAL FEATURES

Detection properties

Nominal sensing distance	12m
Sensitivity adjustment	Potentiometer 2 turns with position indicator

Application

Function Principle	Polarized
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Notes	On RL123 reflector included
Optic position	Axial
Outputs	
Output type	NPN L/D Selectable
Output Function	L/D Selectable
Switching frequency	1Khz
Response time	500μs
Electrical data	
Operating Voltage	10...30VDC
No-Load supply current	≤ 35mA
Load current	≤100mA
Output voltage drop	≤1,8V@Iload=100mA
Max ripple content	5Vpp
LED indicators	Green (powerON) Yellow (status output)
Time delay before availability	≤200ms
Short-circuit protection	Yes
Reverse Polarity Protection	Yes
Emission	LED Red
Interference to external light	3,000Lux (incandescent lamp), 10,000 (sunlight)

Impulsive Overvoltage Protection	Yes
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Mechanical data

Dimensions	20x44,9x60mm
Material	
Housing material	ABS
Weight	150g
Connections	2m PVC cable
Active Head Material	PMMA
Operating temperature	-25°C...+55°C
Diameter/Dimension	Cubic

Test/Approvals

Approvals	CE UR
EMC compatibility	EN 60947-5-2
Shocks and vibrations	Vibration IEC 60068-2-6 / Shock IEC 60068-2-28
Degree of protection	IP67

Accessories

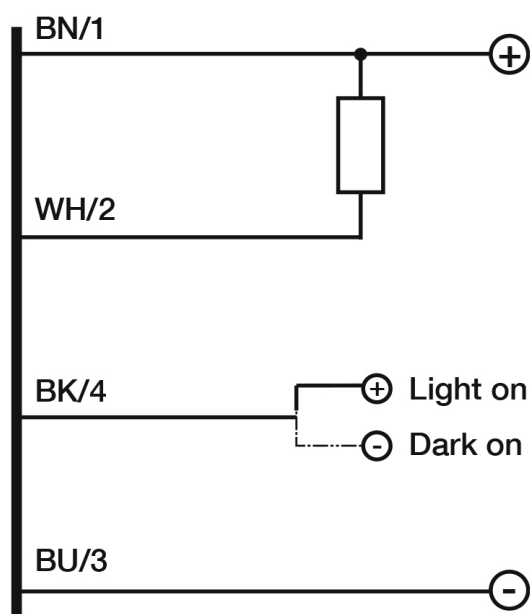
Supplied Accessories	Mounting bracket STFG 00 and reflector RL 123
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Generical Data

Dimensions	20x44,9x60mm
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP67

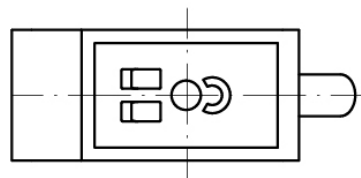
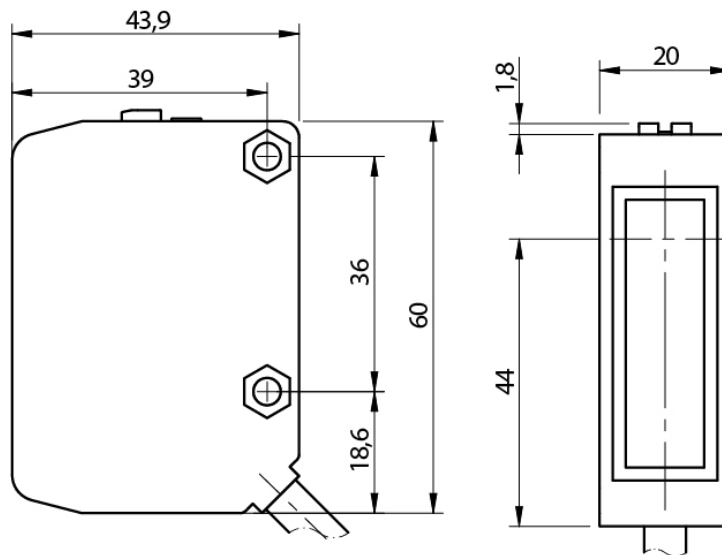
CONNECTIONS

Eletrical diagram

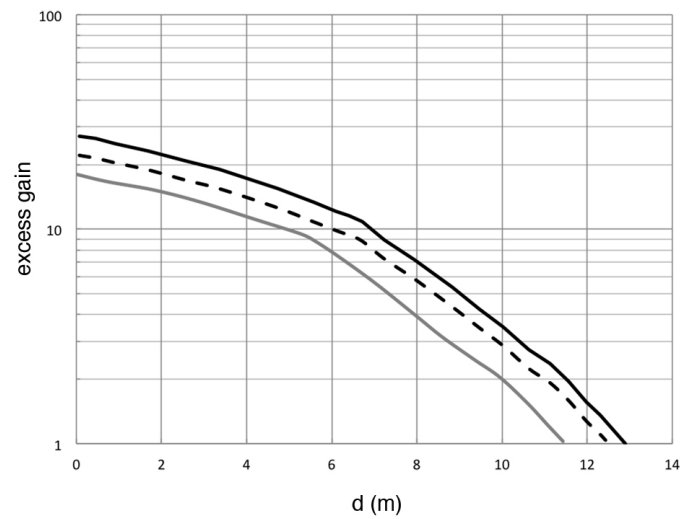


OTHERS

Dimensions



Response curves



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