



# FG

## FGRN/DT-0A

**Photo.Midi,Relay-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

Notes	On RL123 reflector included
Optic position	Axial

#### Outputs

Output type	Relay SPDT NO+NC
Output Function	NO+NC
Switching frequency	33Hz
Response time	15,15ms

#### Electrical data

Operating Voltage	24...240VDC/24...240VDC/50-60Hz
No-Load supply current	≤ 2VA
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

#### Mechanical data

Dimensions	20x44,9x60mm
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Material	
Housing material	ABS
Weight	160g
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

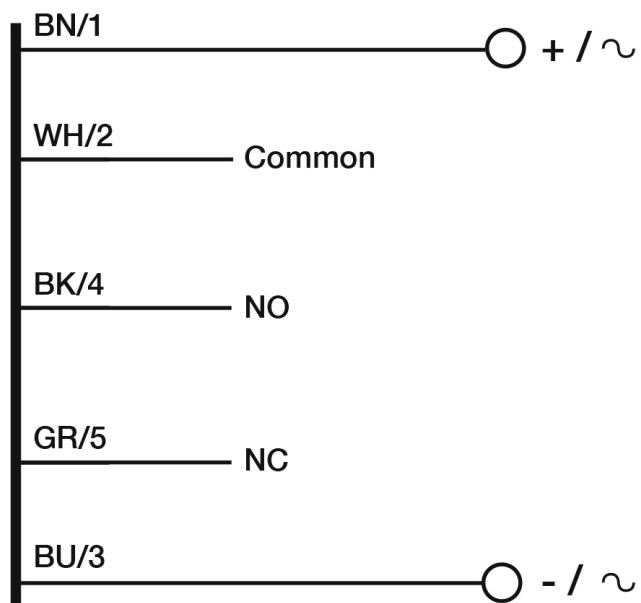
Supplied Accessories	Mounting bracket STFG 00 and reflector RL 123
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#### Generical Data

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

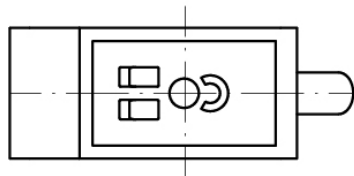
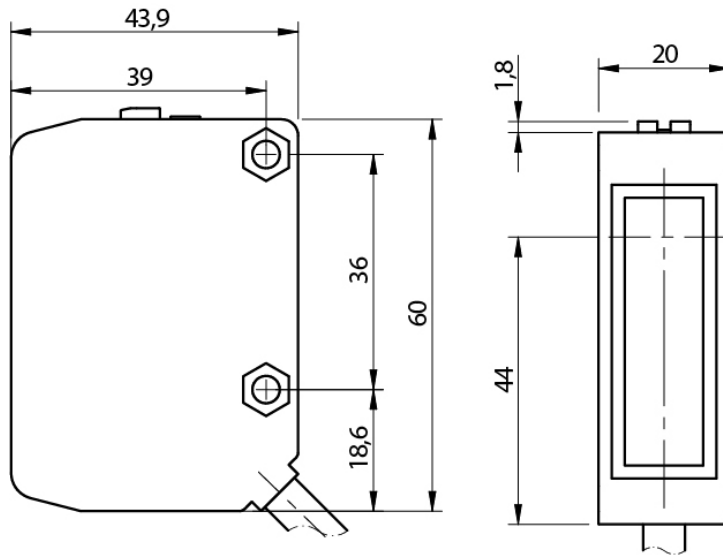
# CONNECTIONS

Electrical diagram

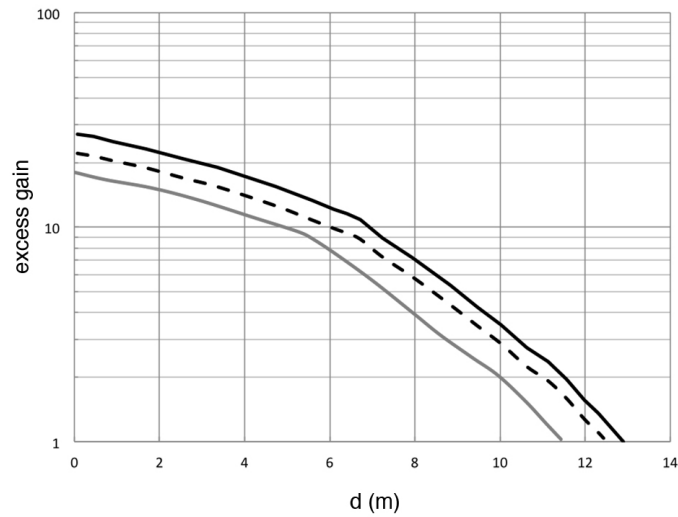


# OTHERS

Dimensions



Response curves



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