

FG

FGRS/0N-0A

Photo.Midi,NPN-NO/NC,Cable,BGS

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

CE

TECHNICAL FEATURES

Detection properties

Nominal sensing distance	310mm
Sensitivity adjustment	Potentiometer 2 turns with position indicator
Minimum sensing distance (blind zone)	90mm

Application

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

Outputs

Output type	NPN L/D Selectable
Output Function	L/D Selectable
Switching frequency	160Hz
Response time	3,125ms

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	10,000Lux (minimum sunlight), 3,000 min HF lamp
Impulsive Overvoltage Protection	Yes

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

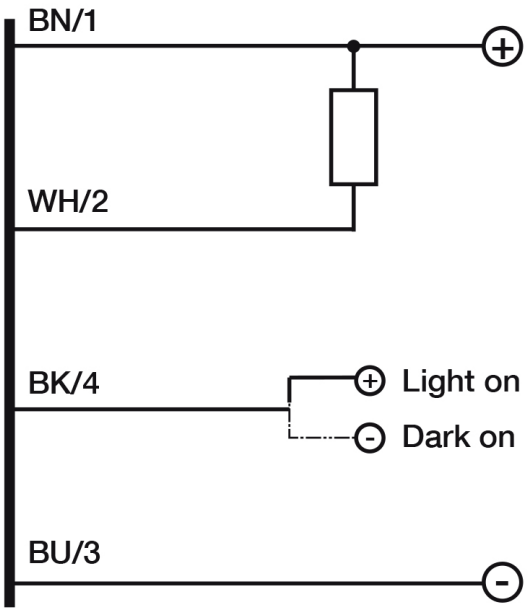
Supplied Accessories	Mounting bracket STFG 00

Generical Data

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

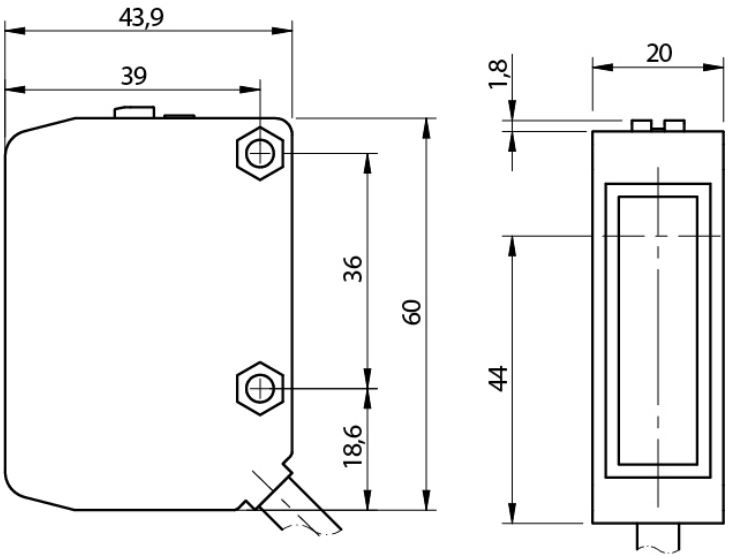
CONNECTIONS

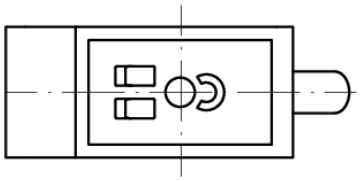
Eletrical diagram



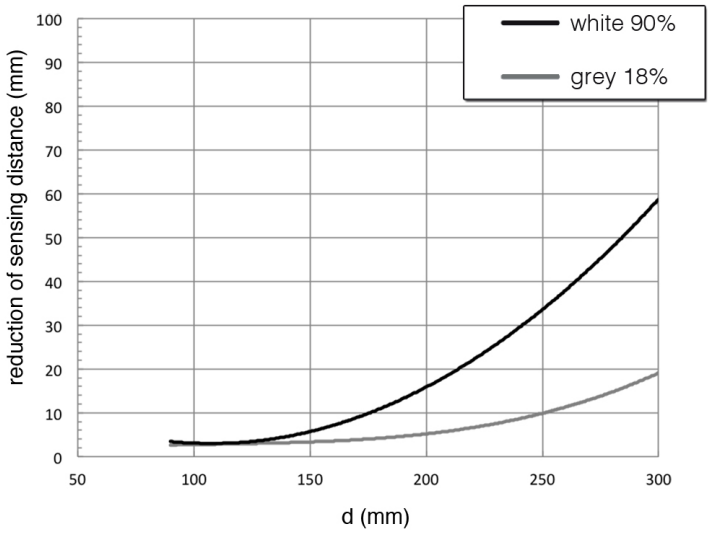
OTHERS

Dimensions





Response curves



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