



# FG

## FGRHD/DT-0A

**Photo.Midi,Relay-NO+NC,Cable,E + R**  
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

50m

Sensitivity adjustment

Potentiometer 2 turns with position indicator (emitter)

### Application

Function Principle

Emitter and Receiver

|                |            |
|----------------|------------|
| Optic position | Axial      |
| Emitter Code   | FGRH/00-0E |
| Receiver Code  | FGRD/0P-0E |

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           | ≤ 35mA (emitter), ≤ 20mA (receiver)             |
| 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 |  |
|--------|--|

|             |              |
|-------------|--------------|
| 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

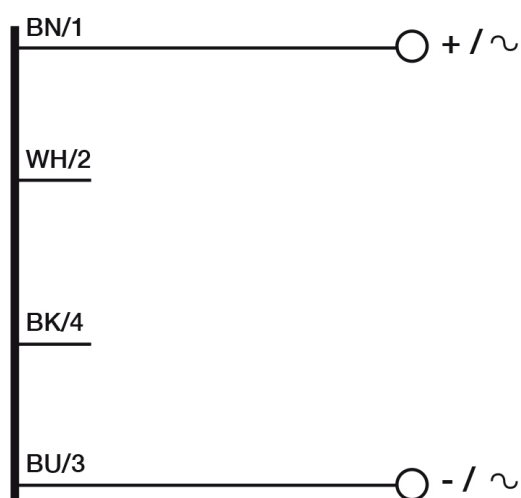
|            |              |
|------------|--------------|
| Dimensions | 20x44,9x60mm |
|------------|--------------|

|                       |                                  |
|-----------------------|----------------------------------|
| Operating Temperature | - 25°C...+ 55°C (Without freeze) |
|-----------------------|----------------------------------|

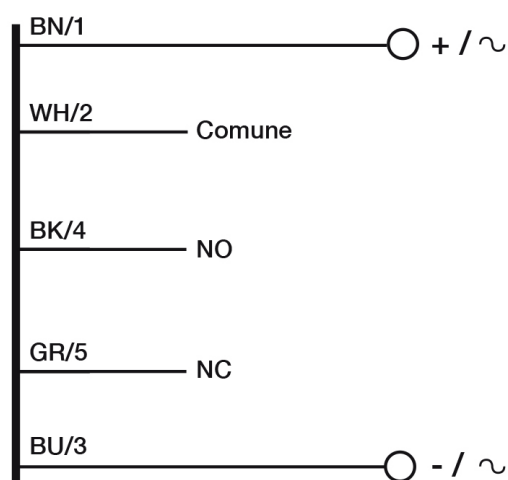
# CONNECTIONS

Eletrical diagram

FGRH/D0

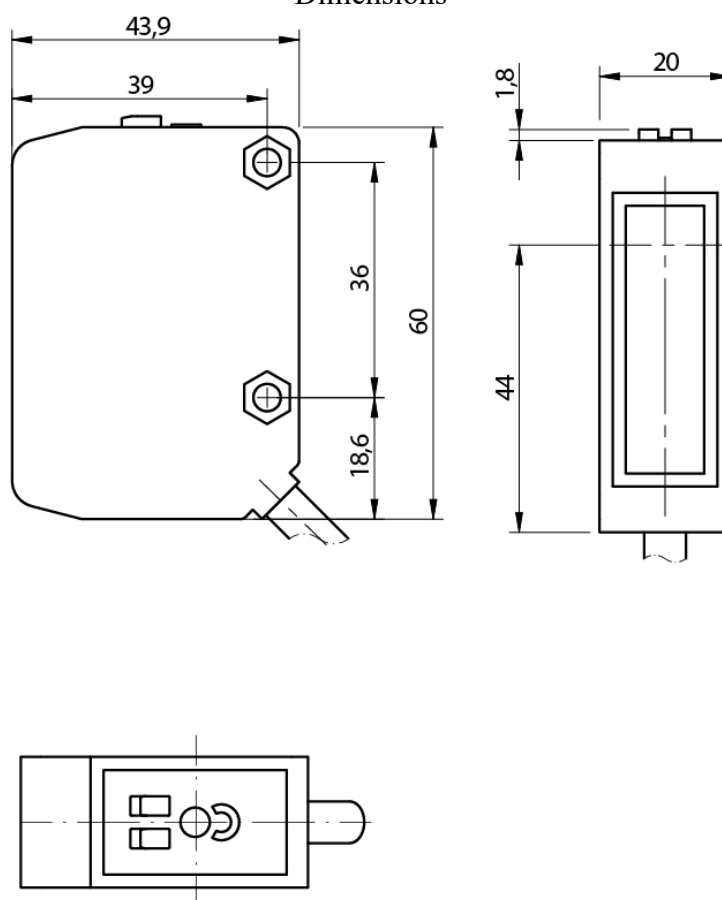


FGRD/DT



# OTHERS

Dimensions



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**date of  
printing**  
10/08/2026  
00:14:12