



### Model Number

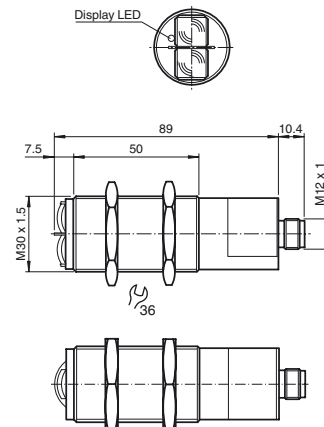
**GLV30-8-H-2371**

Background suppression sensor  
4-pin, M12 x 1 connector

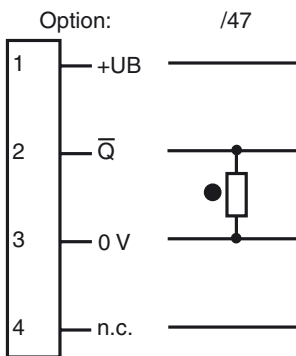
### Features

- M30 plastic housing
- Dark-On switching

### Dimensions

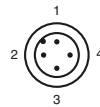


### Electrical connection



○ = Light on  
● = Dark on

### Pinout



Wire colors in accordance with EN 60947-5-2

|   |    |         |
|---|----|---------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue)  |
| 4 | BK | (black) |

## Technical data

### General specifications

|                                   |                              |
|-----------------------------------|------------------------------|
| Detection range                   | 20 ... 150 mm                |
| Detection range min.              | 0 ... 145 mm                 |
| Detection range max.              | 0 ... 170 mm                 |
| Background suppression            | starts from 180 mm           |
| Light source                      | IREL                         |
| Light type                        | modulated infrared light     |
| Black/White difference (6 %/90 %) | < 10 mm                      |
| Diameter of the light spot        | 4 mm at a distance of 150 mm |
| Angle of divergence               | $\pm 1^\circ$                |
| Ambient light limit               | 30000 Lux                    |

### Indicators/operating means

|                    |                                              |
|--------------------|----------------------------------------------|
| Function indicator | LED yellow, lights up if receiver is not lit |
|--------------------|----------------------------------------------|

### Electrical specifications

|                        |       |                    |
|------------------------|-------|--------------------|
| Operating voltage      | $U_B$ | 24 V DC $\pm 20\%$ |
| Ripple                 |       | 10 %               |
| No-load supply current | $I_0$ | 30 mA              |

### Output

|                     |                                                                            |
|---------------------|----------------------------------------------------------------------------|
| Switching type      | dark on                                                                    |
| Signal output       | 1 PNP, short-circuit protected, reverse polarity protected, open collector |
| Switching voltage   | max. 30 V DC                                                               |
| Switching current   | max. 200 mA                                                                |
| Switching frequency | f 35 Hz                                                                    |
| Response time       | 10 ms                                                                      |

### Conformity

|                  |              |
|------------------|--------------|
| Product standard | EN 60947-5-2 |
|------------------|--------------|

### Ambient conditions

|                     |                               |
|---------------------|-------------------------------|
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) |
| Storage temperature | -20 ... 75 °C (-4 ... 167 °F) |

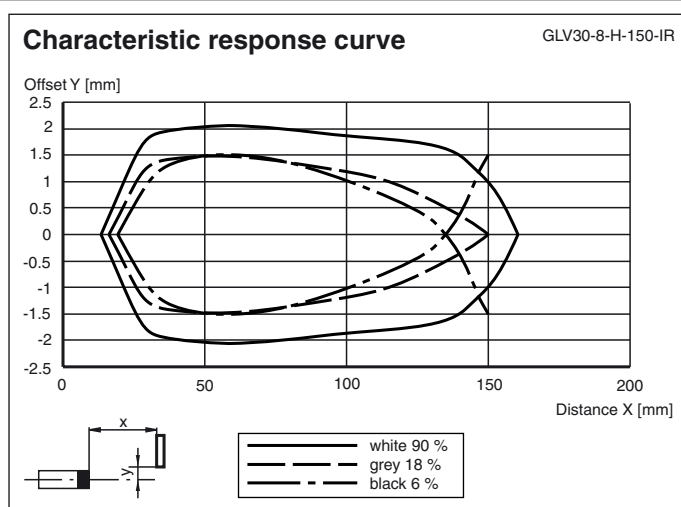
### Mechanical specifications

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| Degree of protection | IP67                                                                                     |
| Connection           | Plastic connector M12 x 1, 4-pin                                                         |
| Material             |                                                                                          |
| Housing              | black ABS, Front cover green (for the differentiation of the sensors in the application) |
| Optical face         | plastic lenses                                                                           |
| Mass                 | approx. 70 g                                                                             |

### Approvals and certificates

|              |                                                                    |
|--------------|--------------------------------------------------------------------|
| UL approval  | cULus Listed, Class 2 Power Source, Type 1 enclosure               |
| CCC approval | CCC approval / marking not required for products rated $\leq 36$ V |
| Approvals    | CE                                                                 |

## Curves/Diagrams



## Accessories

### V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

### V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

### BF 30

Mounting flange, 30 mm

### BF 30-F

Plastic mounting adapter, 30 mm

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

