



**Model Number**

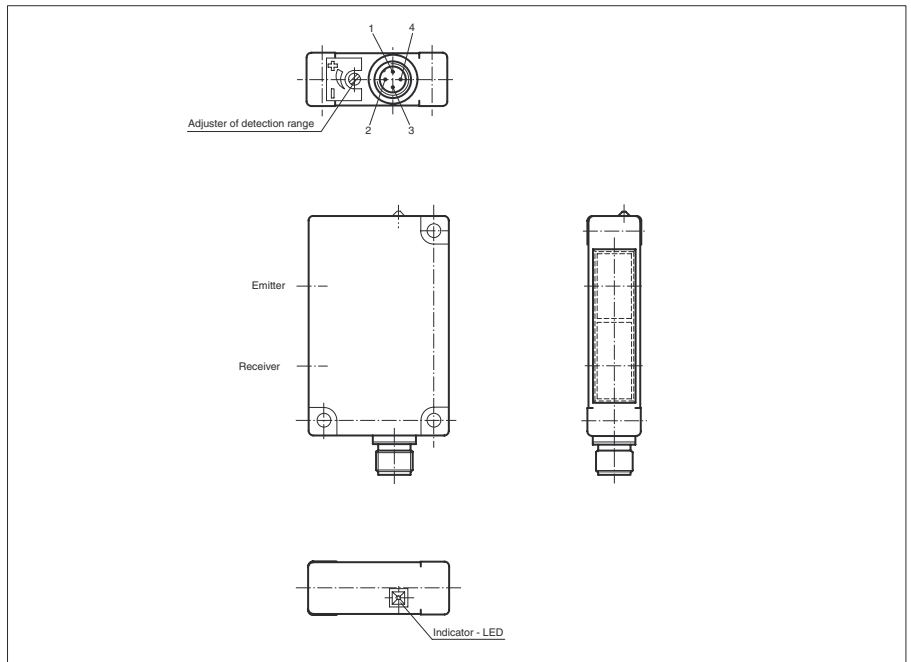
**RL30-8-H-800-IR/32/73c**

Background suppression sensor with 4-pin, M12 x 1 plastic connector

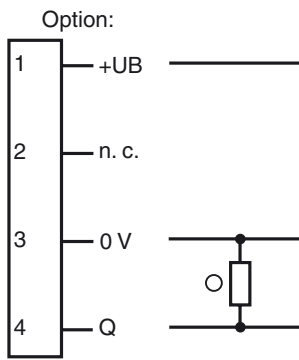
**Features**

- Sleek design, especially for storage and conveyor systems
- Excellent optical performance data
- Mechanical adjustable detection range
- Scratch-resistant and solvent resistant glass lens
- No mutual interference (no crosstalk)

**Dimensions**



**Electrical connection**



○ = Light on  
● = Dark on

Release date: 2006-04-28 09:06 Date of issue: 2011-01-26 419607\_ENG.xml

## Technical data

### General specifications

Sensor range	800 mm adjustable
Detection range min.	30 ... 300 mm
Detection range max.	30 ... 800 mm
Light source	IREd
Light type	modulated infrared light
Black/White difference (6 %/90 %)	< 15 %
Approvals	CE
Diameter of the light spot	approx. 25 mm at a distance of 800 mm
Angle of divergence	approx. 3 °
Ambient light limit	80000 Lux

### Indicators/operating means

Function display	LED yellow, lights up with receiver lit
Controls	Detection range adjuster

### Electrical specifications

Operating voltage	$U_B$	10 ... 30 V DC
No-load supply current	$I_0$	40 mA at 30 V DC

### Output

Switching type	light on	
Signal output	1 PNP output, short-circuit protected, protected from reverse polarity, open collector	
Switching voltage	30 V DC	
Switching current	max. 200 mA	
Switching frequency	f	250 Hz
Response time	2 ms	

### Standard conformity

Standards	EN 60947-5-2
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### Ambient conditions

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

### Mechanical specifications

Protection degree	IP65
Connection	Plastic connector M12 x 1, 4-pin
Material	
Housing	Terluran GV15
Optical face	glass
Mass	40 g

### Approvals and certificates

CCC approval	Products with a maximum operating voltage of $\leq 36$ V do not bear a CCC marking because they do not require approval.
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## Curves/Diagrams

