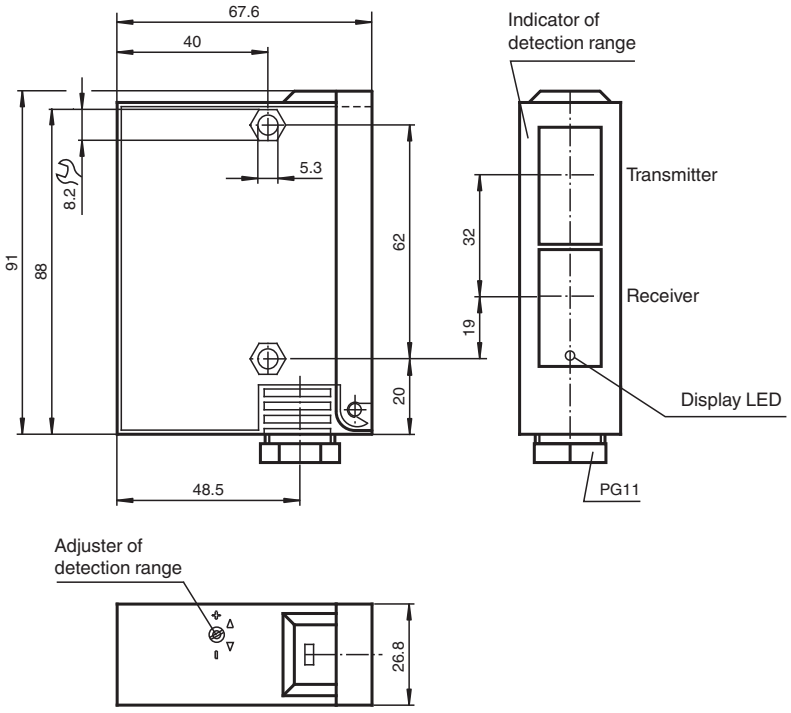


Background suppression sensor
RLK23-1482

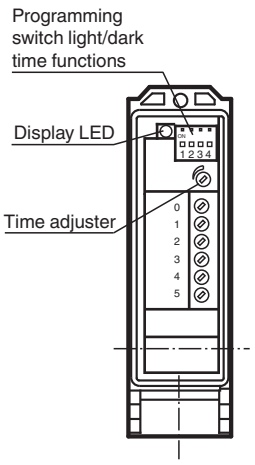
- Adjustable background suppression
- Infrared light
- Timer function
- Sturdy plastic housing
- Optical surface made of scratch-resistant glass
- Hauni-No.: 165276300000EN5380

Background suppression sensor

Dimensions



Terminal compartment



Technical Data

General specifications	
Detection range	50 ... 2000 mm , preset to 800 mm +/-50 mm
Adjustment range	200 ... 2000 mm
Light source	IRED
Light type	modulated infrared light
Black-white difference (6 %/90 %)	< 20 %

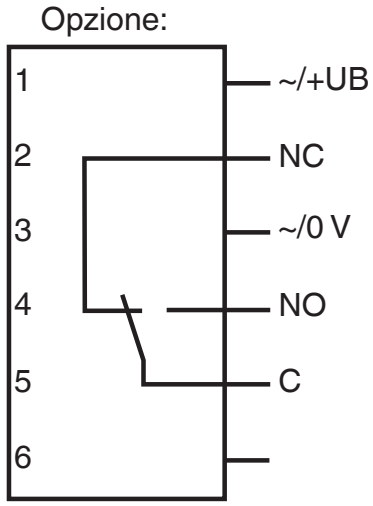
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Technical Data

Diameter of the light spot		50 mm at 2000 mm sensor range
Opening angle		1.5 °
Ambient light limit		5000 Lux
Functional safety related parameters		
$MTTF_d$		850 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Function indicator		LED yellow, lights up with receiver lit
Control elements		Programming switch for light/dark switching
Control elements		Sensing range adjuster
Control elements		Time adjuster
Electrical specifications		
Operating voltage	U_B	12 ... 240 V AC/DC (automatic adaption to +UB)
Power consumption	P_0	3 VA
Output		
Switching type		light/dark on selectable programmable
Signal output		1 relay output, 1 alternator
Switching voltage		max. 240 V AC
Switching current		max. 2 A
Switching frequency	f	10 Hz
Response time		50 ms
Timer function		ON delay (GAN), OFF delay (GAB), one shot (IAB), programmable, adjustment range 0.1 ...10 s
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
UL approval		cULus
CCC approval		Certified by China Compulsory Certification (CCC)
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-20 ... 75 °C (-4 ... 167 °F)
Mechanical specifications		
Degree of protection		IP65
Connection		terminal compartment
Material		
Housing		Terluran® GV15
Optical face		glass
Mass		180 g
Dimensions		
Height		91 mm
Width		26.8 mm
Depth		67.6 mm

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Connection Assignment

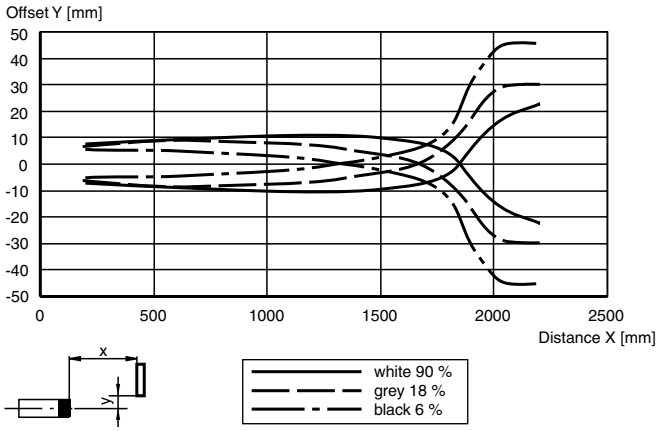


○ = Light on
● = Dark on

Characteristic Curve

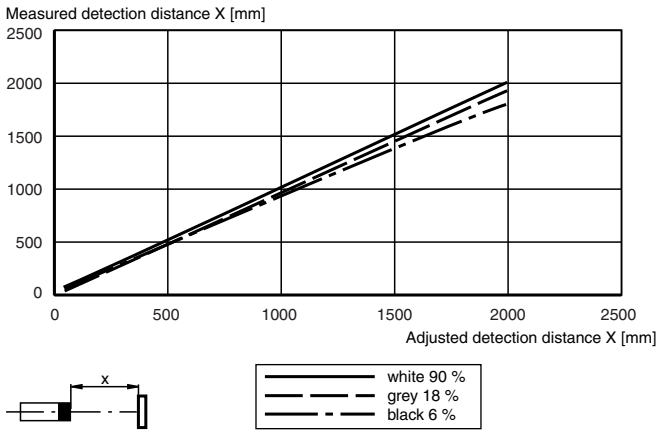
Characteristic response curve

RL23-8-H-2000



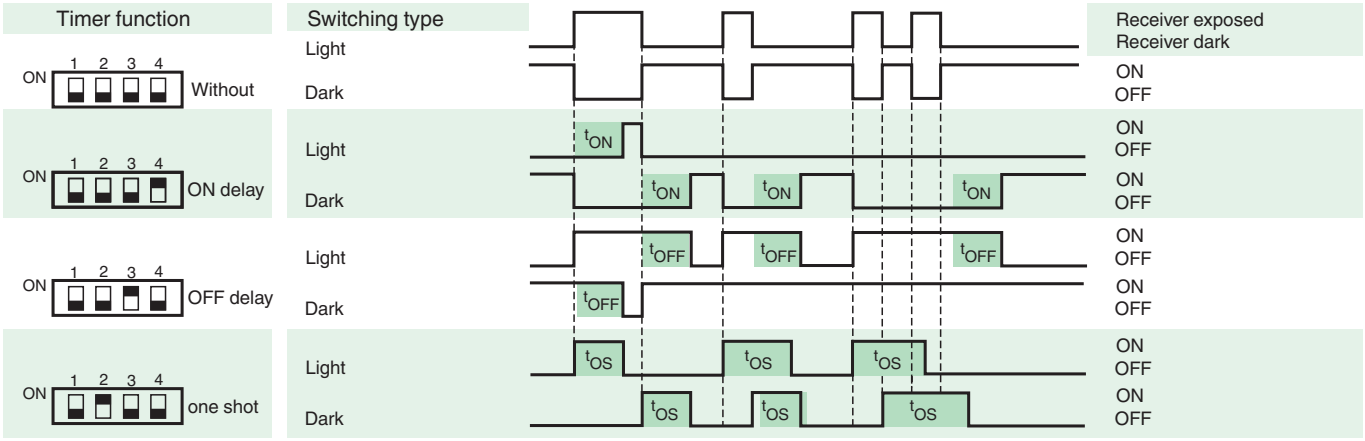
Difference in detection distance

RL23-8-H-2000



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Timer functions



Time t_{ON}, t_{OFF} and t_{OS} are adjustable from 0.1 to 10 seconds.
The Light-/Dark-Switch (Left, outer switch) is shown in the "Dark ON" position.

Type	Description	Notes
-Z	OFF delay timer	Adjustable time interval (0.1 s - 10 s)
	one shot timer	
	ON delay timer	

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