



RL21-8-H-80/49

Reflection light scanner with background suppression

RL21-8-H-80/49

with terminal compartment

CE



- ◆ Detection range 20 mm ... 80 mm
- ◆ Sturdy plastic housing
- ◆ Optical surface made of scratch-resistant glass
- ◆ Pre-fault indication
- ◆ Transistor output
- ◆ Operating voltage DC

Date of edition 12/10/03

General specifications

Detection range	20 ... 80 mm
Detection range min.	20 ... 80 mm
Sensor range max.	20 ... 90 mm
Light source	IRED
Black/White difference (6 %/90 %)	< 10 %
Approvals	CE
Background suppression	starts from 90 mm
Light type	infrared, alternating light
Diameter of the light spot	approx. 4 mm at 80 mm detection range
Angle of divergence	approx. 3 °
Ambient light limit	80000 Lux

Indicators/operating means

Function display	LED, red/green, red when falling short of the stability control, green when stability control ≥ 3
Operating elements	Programming switch for light/dark ON, timer functions, time adjuster

Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current I_0	40 mA

Input

Test input	1 pnp
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Output

Switching type	Light/dark ON, switchable
Signal output	1 pnp and 1 npn short-circuit proof, protected against reverse polarity
Switching voltage	30 V DC
Switching current	max. 200 mA
Switching frequency f	35 Hz
Response time	10 ms
Timer function	GAN, GAB, IAB, programmable, adjustment range 0.1 ...10 s

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

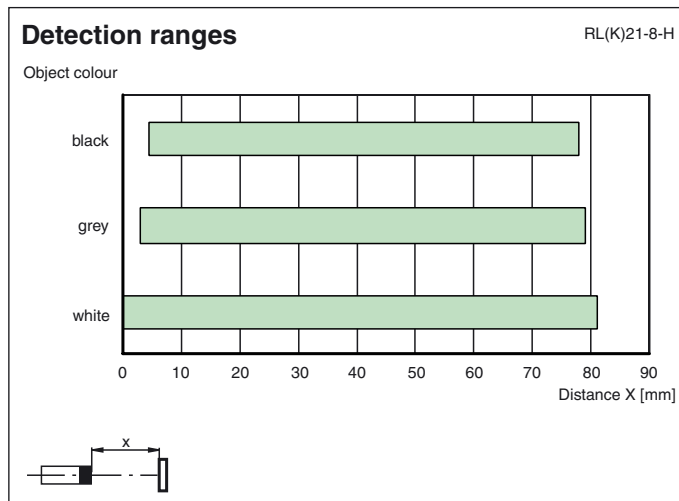
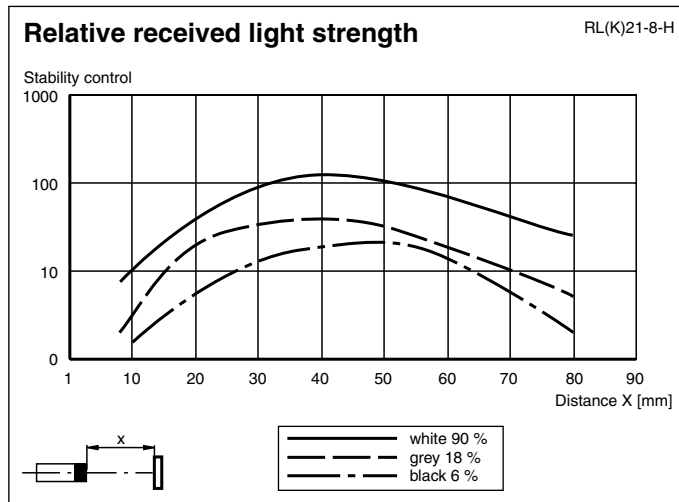
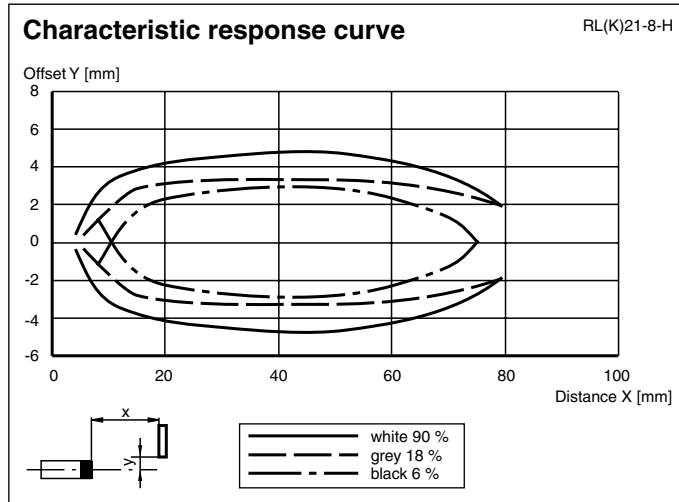
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

Mechanical specifications

Protection degree	IP65
Connection	terminal compartment
Material	
Housing	Terluran GV15
Optical face	glass
Mass	130 g

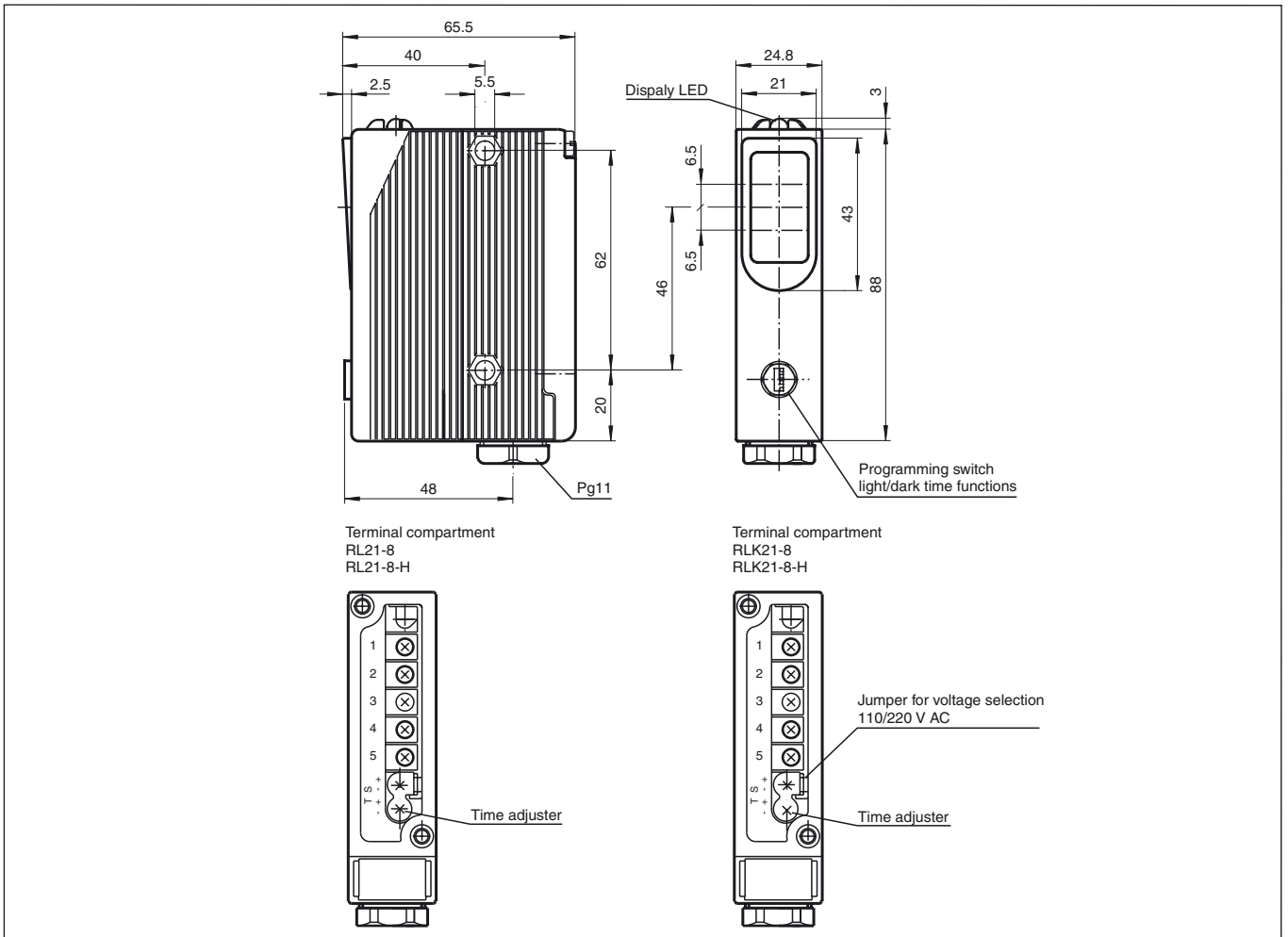


Curves/Diagrams

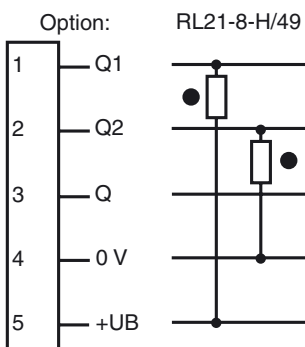


Note

Dimensions



Electrical connection



○ = light on, ● = dark on