



ML4.1-8-H-60-RT/95/110

Diffuse mode sensor with background suppression

ML4.1-8-H-60-RT/95/110

with M8, 4-pin metal connector



- ◆ **Miniature design**
- ◆ **Precise background suppression**
- ◆ **Powerful push-pull output**
- ◆ **Very small black-white difference**
- ◆ **Red light design**
- ◆ **Not sensitive to ambient light, even with switched energy saving lamps**

General specifications

Detection range	10 ... 60 mm
Light source	LED
Black/White difference (6 %/90 %)	approx. 20 mm
Approvals	CE, cULus
Background suppression	starts from 80 mm
Light type	red, modulated light
Diameter of the light spot	6 mm
Angle of divergence	approx. 6 °
Ambient light limit	40000 Lux

Indicators/operating means

Operating display	LED, green
Function display	LED yellow, lights up with receiver lit

Electrical specifications

Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current I_0	25 mA

Output

Switching type	Light/dark on selectable electrically switchable
Signal output	Push-pull output, short-circuit proof, protected against reverse polarity
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Switching frequency f	500 Hz
Response time	1 ms

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

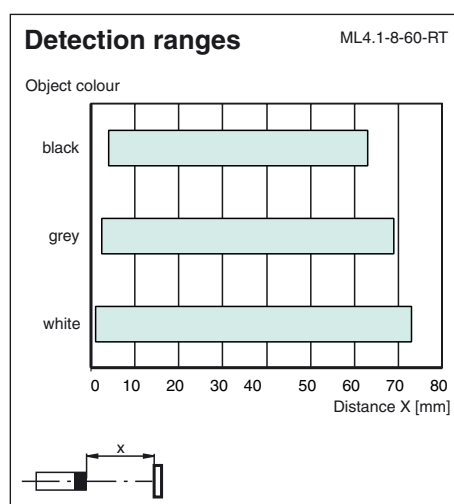
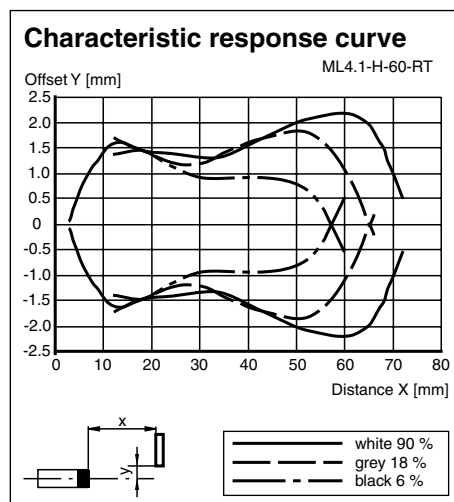
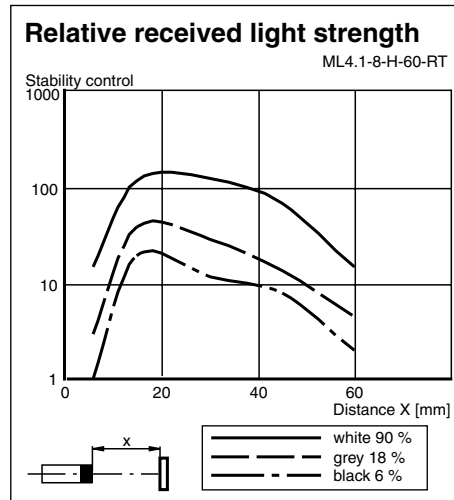
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 75 °C (253 ... 348 K)

Mechanical specifications

Protection degree	IP65
Connection	M8 connector, 4-pin
Material	
Housing	ABS GV5
Optical face	glass
Mass	15 g



Curves/Diagrams



[illegible]

Option: 110 110

1 — +UB

2 — I/O

3 — 0 V

4 — Q

Subject to reasonable modifications due to technical advances.

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